

Decay Constants:

one-loop:

Neutral pion: $F_{\pi 433} =$

$$\begin{aligned}
& + F^{-1} m_{38}^{-1} * (- 512/9 * \sin^2 * \cos * m_{kp2}^2 * L_{8r} - 512/3 * \sin^2 * \cos * m_{kp2}^2 * L_{7r} \\
& + 1024/9 * \sin^2 * \cos * m_{pp2} * m_{kp2} * L_{8r} + 1024/3 * \sin^2 * \cos * m_{pp2} * m_{kp2} * L_{7r} \\
& - 512/9 * \sin^2 * \cos * m_{pp2}^2 * L_{8r} - 512/3 * \sin^2 * \cos * m_{pp2}^2 * L_{7r} + \\
& 32/9 * \text{mud} * \sin * \sqrt{3} * m_{kp2} * L_{8r} + 32/3 * \text{mud} * \sin * \sqrt{3} * m_{kp2} * L_{7r} - \\
& 32/9 * \text{mud} * \sin * \sqrt{3} * m_{pp2} * L_{8r} - 32/3 * \text{mud} * \sin * \sqrt{3} * m_{pp2} * L_{7r} + \\
& 512/9 * \text{mud} * \sin^2 * \cos * m_{kp2} * L_{8r} + 512/3 * \text{mud} * \sin^2 * \cos * m_{kp2} * L_{7r} \\
& - 512/9 * \text{mud} * \sin^2 * \cos * m_{pp2} * L_{8r} - 512/3 * \text{mud} * \sin^2 * \cos * m_{pp2} * L_{7r} + \\
& 16/3 * \text{mud}^2 * \cos * L_{8r} + 16 * \text{mud}^2 * \cos * L_{7r} - 16/9 * \text{mud}^2 * \sin * \sqrt{3} * L_{8r} - \\
& 16/3 * \text{mud}^2 * \sin * \sqrt{3} * L_{7r} - 128/9 * \text{mud}^2 * \sin^2 * \cos * L_{8r} - 128/3 * \text{mud}^2 * \sin^2 * \cos * L_{7r} \\
&) \\
& + F^{-1} * (+ 8 * \cos * m_{kp2} * L_{4r} + 4 * \cos * m_{pp2} * L_{5r} + 4 * \cos * m_{pp2} * L_{4r} - \\
& 4 * \text{mud} * \cos * L_{4r} + 4/3 * \text{mud} * \sin * \sqrt{3} * L_{5r}) \\
& + \ln(1) * F^{-1} * \pi^{-2} * m_{38}^{-1} * (+ 1/12 * \sin^2 * \cos * m_{pp2}^2 + 1/144 * \text{mud} * \sin * \sqrt{3} * m_{pp2} \\
&) \\
& + \ln(1) * F^{-1} * \pi^{-2} * (- 1/16 * \cos * m_{pp2} - 1/48 * \sin^2 * \cos * m_{pp2}) \\
& + \ln(3) * F^{-1} * \pi^{-2} * m_{38}^{-1} * (- 1/18 * \sin^2 * \cos * m_{pp2} * m_{kp2} + 1/18 * \sin^2 * \cos * m_{pp2}^2 \\
& + 2/27 * \sin^4 * \cos * m_{kp2}^2 - 1/27 * \sin^4 * \cos * m_{pp2} * m_{kp2} - 1/27 * \sin^4 * \cos * m_{pp2}^2 \\
& - 1/216 * \text{mud} * \sin * \sqrt{3} * m_{kp2} + 1/864 * \text{mud} * \sin * \sqrt{3} * m_{pp2} + 1/36 * \text{mud} * \sin^2 * \cos * m_{pp2} \\
& - 2/27 * \text{mud} * \sin^4 * \cos * m_{kp2} + 1/54 * \text{mud} * \sin^4 * \cos * m_{pp2} - 1/288 * \text{mud}^2 * \cos \\
& + 1/432 * \text{mud}^2 * \sin * \sqrt{3} + 1/54 * \text{mud}^2 * \sin^4 * \cos) \\
& + \ln(4) * F^{-1} * \pi^{-2} * m_{38}^{-1} * (- 1/36 * \sin * \sqrt{3} * m_{kp2}^2 - 1/144 * \sin * \sqrt{3} * m_{pp2} * m_{kp2} \\
& + 1/72 * \sin * \sqrt{3} * m_{pp2}^2 + 1/18 * \sin^2 * \cos * m_{kp2}^2 - 1/9 * \sin^2 * \cos * m_{pp2} * m_{kp2} \\
& + 1/72 * \sin^2 * \cos * m_{pp2}^2 + 1/18 * \sin^3 * \sqrt{3} * m_{kp2}^2 - 1/72 * \sin^3 * \sqrt{3} * m_{pp2}^2 \\
& - 1/96 * \text{mud} * \cos * m_{kp2} - 1/96 * \text{mud} * \cos * m_{pp2} + 7/288 * \text{mud} * \sin * \sqrt{3} * m_{kp2} \\
& + 1/288 * \text{mud} * \sin * \sqrt{3} * m_{pp2} - 1/18 * \text{mud} * \sin^2 * \cos * m_{kp2} + 1/18 * \text{mud} * \sin^2 * \cos * m_{pp2} \\
& - 1/18 * \text{mud} * \sin^3 * \sqrt{3} * m_{kp2} - 1/144 * \text{mud}^2 * \sin * \sqrt{3} + 1/72 * \text{mud}^2 * \sin^2 * \cos \\
& + 1/72 * \text{mud}^2 * \sin^3 * \sqrt{3}) \\
& + \ln(4) * F^{-1} * \pi^{-2} * (- 1/64 * \cos * m_{kp2} - 1/144 * \sin * \sqrt{3} * m_{kp2} - \\
& 1/288 * \sin * \sqrt{3} * m_{pp2} + 1/96 * \sin^2 * \cos * m_{pp2} - 1/72 * \sin^3 * \sqrt{3} * m_{kp2} \\
& + 1/288 * \sin^3 * \sqrt{3} * m_{pp2} + 1/384 * \text{mud} * \cos - 5/1152 * \text{mud} * \sin * \sqrt{3} + \\
& 1/144 * \text{mud} * \sin^3 * \sqrt{3}) \\
& + \ln(6) * F^{-1} * \pi^{-2} * m_{38}^{-1} * (+ 1/36 * \sin * \sqrt{3} * m_{kp2}^2 + 1/144 * \sin * \sqrt{3} * m_{pp2} * m_{kp2} \\
& - 1/72 * \sin * \sqrt{3} * m_{pp2}^2 + 1/18 * \sin^2 * \cos * m_{kp2}^2 - 1/9 * \sin^2 * \cos * m_{pp2} * m_{kp2} \\
& + 1/72 * \sin^2 * \cos * m_{pp2}^2 - 1/18 * \sin^3 * \sqrt{3} * m_{kp2}^2 + 1/72 * \sin^3 * \sqrt{3} * m_{pp2}^2 \\
& + 1/96 * \text{mud} * \cos * m_{kp2} + 1/96 * \text{mud} * \cos * m_{pp2} - 1/32 * \text{mud} * \sin * \sqrt{3} * m_{kp2} \\
& - 1/288 * \text{mud} * \sin * \sqrt{3} * m_{pp2} - 1/18 * \text{mud} * \sin^2 * \cos * m_{kp2} + 1/18 * \text{mud} * \sin^2 * \cos * m_{pp2} \\
& + 1/18 * \text{mud} * \sin^3 * \sqrt{3} * m_{kp2} - 1/96 * \text{mud}^2 * \cos + 1/96 * \text{mud}^2 * \sin * \sqrt{3} \\
& + 1/72 * \text{mud}^2 * \sin^2 * \cos - 1/72 * \text{mud}^2 * \sin^3 * \sqrt{3})
\end{aligned}$$

$$\begin{aligned}
& + \ln(6) * F^{-1} * \pi^{-2} * (- 1/64 * \cos x * \text{mkp}2 + 1/144 * \sin x * \text{sqrt}3 * \text{mkp}2 + \\
& 1/288 * \sin x * \text{sqrt}3 * \text{mpp}2 + 1/96 * \sin x^2 * \cos x * \text{mpp}2 + 1/72 * \sin x^3 * \text{sqrt}3 * \text{mkp}2 \\
& - 1/288 * \sin x^3 * \text{sqrt}3 * \text{mpp}2 + 5/384 * \text{mud} * \cos x - 13/1152 * \text{mud} * \sin x * \text{sqrt}3 - \\
& 1/144 * \text{mud} * \sin x^3 * \text{sqrt}3) \\
& + \ln(8) * F^{-1} * \pi^{-2} * m38^{-1} * (+ 2/27 * \sin x^2 * \cos x * \text{mkp}2^2 - 5/54 * \sin x^2 * \cos x * \text{mpp}2 * \text{mkp}2 \\
& + 1/54 * \sin x^2 * \cos x * \text{mpp}2^2 - 2/27 * \sin x^4 * \cos x * \text{mkp}2^2 + 1/27 * \sin x^4 * \cos x * \text{mpp}2 * \text{mkp}2 \\
& + 1/27 * \sin x^4 * \cos x * \text{mpp}2^2 + 1/288 * \text{mud} * \sin x * \text{sqrt}3 * \text{mpp}2 - 2/27 * \text{mud} * \sin x^2 * \cos x * \text{mkp}2 \\
& + 5/108 * \text{mud} * \sin x^2 * \cos x * \text{mpp}2 + 2/27 * \text{mud} * \sin x^4 * \cos x * \text{mkp}2 - 1/54 * \text{mud} * \sin x^4 * \cos x * \text{mpp}2 \\
& - 1/288 * \text{mud}^2 * \cos x + 1/54 * \text{mud}^2 * \sin x^2 * \cos x - 1/54 * \text{mud}^2 * \sin x^4 * \cos x);
\end{aligned}$$

eta: Fpi488 =

$$\begin{aligned}
& + F^{-1} * (+ 16/3 * \cos x * \text{mkp}2 * L5r + 8 * \cos x * \text{mkp}2 * L4r - 4/3 * \cos x * \text{mpp}2 * L5r + \\
& 4 * \cos x * \text{mpp}2 * L4r + 512/9 * \sin x^2 * \cos x * \text{mkp}2^2 * L8r * m83^{-1} + 512/3 * \sin x^2 * \cos x * \text{mkp}2^2 * L7r * m83^{-1} \\
& - 1024/9 * \sin x^2 * \cos x * \text{mpp}2 * \text{mkp}2 * L8r * m83^{-1} - 1024/3 * \sin x^2 * \cos x * \text{mpp}2 * \text{mkp}2 * L7r * m83^{-1} \\
& + 512/9 * \sin x^2 * \cos x * \text{mpp}2^2 * L8r * m83^{-1} + 512/3 * \sin x^2 * \cos x * \text{mpp}2^2 * L7r * m83^{-1} \\
& - 8/3 * \text{mud} * \cos x * L5r - 4 * \text{mud} * \cos x * L4r - 4/3 * \text{mud} * \sin x * \text{sqrt}3 * L5r - \\
& 32/9 * \text{mud} * \sin x * \text{sqrt}3 * \text{mkp}2 * L8r * m83^{-1} - 32/3 * \text{mud} * \sin x * \text{sqrt}3 * \text{mkp}2 * L7r * m83^{-1} \\
& + 32/9 * \text{mud} * \sin x * \text{sqrt}3 * \text{mpp}2 * L8r * m83^{-1} + 32/3 * \text{mud} * \sin x * \text{sqrt}3 * \text{mpp}2 * L7r * m83^{-1} \\
& - 512/9 * \text{mud} * \sin x^2 * \cos x * \text{mkp}2 * L8r * m83^{-1} - 512/3 * \text{mud} * \sin x^2 * \cos x * \text{mkp}2 * L7r * m83^{-1} \\
& + 512/9 * \text{mud} * \sin x^2 * \cos x * \text{mpp}2 * L8r * m83^{-1} + 512/3 * \text{mud} * \sin x^2 * \cos x * \text{mpp}2 * L7r * m83^{-1} \\
& - 16/3 * \text{mud}^2 * \cos x * L8r * m83^{-1} - 16 * \text{mud}^2 * \cos x * L7r * m83^{-1} + 16/9 * \text{mud}^2 * \sin x * \text{sqrt}3 * L8r * m83^{-1} \\
& + 16/3 * \text{mud}^2 * \sin x * \text{sqrt}3 * L7r * m83^{-1} + 128/9 * \text{mud}^2 * \sin x^2 * \cos x * L8r * m83^{-1} \\
& + 128/3 * \text{mud}^2 * \sin x^2 * \cos x * L7r * m83^{-1}) \\
& + \ln(1) * F^{-1} * \pi^{-2} * (+ 1/48 * \sin x^2 * \cos x * \text{mpp}2 - 1/12 * \sin x^2 * \cos x * \text{mpp}2^2 * m83^{-1} \\
& - 1 + 1/144 * \text{mud} * \sin x * \text{sqrt}3 * \text{mpp}2 * m83^{-1}) \\
& + \ln(3) * F^{-1} * \pi^{-2} * (+ 1/18 * \sin x^2 * \cos x * \text{mpp}2 * \text{mkp}2 * m83^{-1} - 1/18 * \sin x^2 * \cos x * \text{mpp}2^2 * m83^{-1} \\
& - 1 - 2/27 * \sin x^4 * \cos x * \text{mkp}2^2 * m83^{-1} + 1/27 * \sin x^4 * \cos x * \text{mpp}2 * \text{mkp}2 * m83^{-1} \\
& + 1/27 * \sin x^4 * \cos x * \text{mpp}2^2 * m83^{-1} + 1/216 * \text{mud} * \sin x * \text{sqrt}3 * \text{mkp}2 * m83^{-1} \\
& - 1 - 1/864 * \text{mud} * \sin x * \text{sqrt}3 * \text{mpp}2 * m83^{-1} - 1/36 * \text{mud} * \sin x^2 * \cos x * \text{mpp}2 * m83^{-1} \\
& + 1 + 2/27 * \text{mud} * \sin x^4 * \cos x * \text{mkp}2 * m83^{-1} - 1/54 * \text{mud} * \sin x^4 * \cos x * \text{mpp}2 * m83^{-1} \\
& - 1 + 1/288 * \text{mud}^2 * \cos x * m83^{-1} - 1/432 * \text{mud}^2 * \sin x * \text{sqrt}3 * m83^{-1} - \\
& 1/54 * \text{mud}^2 * \sin x^4 * \cos x * m83^{-1}) \\
& + \ln(4) * F^{-1} * \pi^{-2} * (- 3/64 * \cos x * \text{mkp}2 + 1/144 * \sin x * \text{sqrt}3 * \text{mkp}2 + \\
& 1/24 * \sin x * \text{sqrt}3 * \text{mkp}2^2 * m83^{-1} + 1/288 * \sin x * \text{sqrt}3 * \text{mpp}2 - 1/144 * \sin x * \text{sqrt}3 * \text{mpp}2 * \text{mkp}2 * m83^{-1} \\
& - 1 - 1/72 * \sin x * \text{sqrt}3 * \text{mpp}2^2 * m83^{-1} - 1/18 * \sin x^2 * \cos x * \text{mkp}2^2 * m83^{-1} \\
& - 1 - 1/96 * \sin x^2 * \cos x * \text{mpp}2 + 1/9 * \sin x^2 * \cos x * \text{mpp}2 * \text{mkp}2 * m83^{-1} - \\
& 1/72 * \sin x^2 * \cos x * \text{mpp}2^2 * m83^{-1} + 1/72 * \sin x^3 * \text{sqrt}3 * \text{mkp}2 - 1/18 * \sin x^3 * \text{sqrt}3 * \text{mkp}2^2 * m83^{-1} \\
& - 1 - 1/288 * \sin x^3 * \text{sqrt}3 * \text{mpp}2 + 1/72 * \sin x^3 * \text{sqrt}3 * \text{mpp}2^2 * m83^{-1} - \\
& 1/384 * \text{mud} * \cos x + 1/96 * \text{mud} * \cos x * \text{mkp}2 * m83^{-1} + 1/96 * \text{mud} * \cos x * \text{mpp}2 * m83^{-1} \\
& + 1 + 5/1152 * \text{mud} * \sin x * \text{sqrt}3 - 11/288 * \text{mud} * \sin x * \text{sqrt}3 * \text{mkp}2 * m83^{-1} - \\
& 1/288 * \text{mud} * \sin x * \text{sqrt}3 * \text{mpp}2 * m83^{-1} + 1/18 * \text{mud} * \sin x^2 * \cos x * \text{mkp}2 * m83^{-1} \\
& - 1 - 1/18 * \text{mud} * \sin x^2 * \cos x * \text{mpp}2 * m83^{-1} - 1/144 * \text{mud} * \sin x^3 * \text{sqrt}3 + \\
& 1/18 * \text{mud} * \sin x^3 * \text{sqrt}3 * \text{mkp}2 * m83^{-1} + 1/144 * \text{mud}^2 * \sin x * \text{sqrt}3 * m83^{-1} - \\
& 1/72 * \text{mud}^2 * \sin x^2 * \cos x * m83^{-1} - 1/72 * \text{mud}^2 * \sin x^3 * \text{sqrt}3 * m83^{-1})
\end{aligned}$$

$$\begin{aligned}
& + \ln(6) * F^{-1} * \pi^{-2} * (- 3/64 * \cos x * m_{kp2} - 1/144 * \sin x * \sqrt{3} * m_{kp2} - \\
& 1/24 * \sin x * \sqrt{3} * m_{kp2}^2 * m_{83}^{-1} - 1/288 * \sin x * \sqrt{3} * m_{pp2} + 1/144 * \sin x * \sqrt{3} * m_{pp2} * m_{kp2} * m_{83}^{-1} \\
& - 1 + 1/72 * \sin x * \sqrt{3} * m_{pp2}^2 * m_{83}^{-1} - 1/18 * \sin x^2 * \cos x * m_{kp2}^2 * m_{83}^{-1} - \\
& 1 - 1/96 * \sin x^2 * \cos x * m_{pp2} + 1/9 * \sin x^2 * \cos x * m_{pp2} * m_{kp2} * m_{83}^{-1} - \\
& 1/72 * \sin x^2 * \cos x * m_{pp2}^2 * m_{83}^{-1} - 1/72 * \sin x^3 * \sqrt{3} * m_{kp2} + 1/18 * \sin x^3 * \sqrt{3} * m_{kp2}^2 * m_{83}^{-1} \\
& - 1 + 1/288 * \sin x^3 * \sqrt{3} * m_{pp2} - 1/72 * \sin x^3 * \sqrt{3} * m_{pp2}^2 * m_{83}^{-1} + \\
& 19/384 * \text{mud} * \cos x - 1/96 * \text{mud} * \cos x * m_{kp2} * m_{83}^{-1} - 1/96 * \text{mud} * \cos x * m_{pp2} * m_{83}^{-1} \\
& - 1 + 13/1152 * \text{mud} * \sin x * \sqrt{3} + 13/288 * \text{mud} * \sin x * \sqrt{3} * m_{kp2} * m_{83}^{-1} - \\
& 1/96 * \text{mud} * \sin x * \sqrt{3} * m_{pp2} * m_{83}^{-1} + 1/18 * \text{mud} * \sin x^2 * \cos x * m_{kp2} * m_{83}^{-1} - \\
& 1 - 1/18 * \text{mud} * \sin x^2 * \cos x * m_{pp2} * m_{83}^{-1} + 1/144 * \text{mud} * \sin x^3 * \sqrt{3} - \\
& 1/18 * \text{mud} * \sin x^3 * \sqrt{3} * m_{kp2} * m_{83}^{-1} + 1/96 * \text{mud}^2 * \cos x * m_{83}^{-1} - \\
& 1/96 * \text{mud}^2 * \sin x * \sqrt{3} * m_{83}^{-1} - 1/72 * \text{mud}^2 * \sin x^2 * \cos x * m_{83}^{-1} + \\
& 1/72 * \text{mud}^2 * \sin x^3 * \sqrt{3} * m_{83}^{-1}) \\
& + \ln(8) * F^{-1} * \pi^{-2} * (- 2/27 * \sin x^2 * \cos x * m_{kp2}^2 * m_{83}^{-1} + 5/54 * \sin x^2 * \cos x * m_{pp2} * m_{kp2} * m_{83}^{-1} \\
& - 1 - 1/54 * \sin x^2 * \cos x * m_{pp2}^2 * m_{83}^{-1} + 2/27 * \sin x^4 * \cos x * m_{kp2}^2 * m_{83}^{-1} - 1 - \\
& 1/27 * \sin x^4 * \cos x * m_{pp2} * m_{kp2} * m_{83}^{-1} - 1/27 * \sin x^4 * \cos x * m_{pp2}^2 * m_{83}^{-1} - \\
& 1/288 * \text{mud} * \sin x * \sqrt{3} * m_{pp2} * m_{83}^{-1} + 2/27 * \text{mud} * \sin x^2 * \cos x * m_{kp2} * m_{83}^{-1} - \\
& - 5/108 * \text{mud} * \sin x^2 * \cos x * m_{pp2} * m_{83}^{-1} - 2/27 * \text{mud} * \sin x^4 * \cos x * m_{kp2} * m_{83}^{-1} \\
& - 1 + 1/54 * \text{mud} * \sin x^4 * \cos x * m_{pp2} * m_{83}^{-1} + 1/288 * \text{mud}^2 * \cos x * m_{83}^{-1} - \\
& 1/54 * \text{mud}^2 * \sin x^2 * \cos x * m_{83}^{-1} + 1/54 * \text{mud}^2 * \sin x^4 * \cos x * m_{83}^{-1});
\end{aligned}$$

two-loop:

Charged pion:

$F_{pi611} =$

$$\begin{aligned}
& + m_{kp2} * (- 1/4 * H_b(3,4,6, \text{qext}, \text{qext}) * F^{-3} * \sin x^2 + 1/4 * H_b(3,4,7, \text{plext}, \text{plext}) * F^{-3} * \sin x^2 \\
& - 1/4 * H_b(3,5,7, \text{qext}, \text{qext}) * F^{-3} * \sin x^2 - 1/8 * H_b(4,2,5, \text{qext}, \text{qext}) * F^{-3} \\
& - 1/8 * H_b(4,3,6, \text{qext}, \text{qext}) * F^{-3} - 1/12 * H_b(4,3,6, \text{qext}, \text{qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} \\
& + 1/8 * H_b(4,3,6, \text{qext}, \text{qext}) * F^{-3} * \sin x^2 + 1/8 * H_b(4,3,7, \text{plext}, \text{plext}) * F^{-3} + \\
& 1/12 * H_b(4,3,7, \text{plext}, \text{plext}) * F^{-3} * \sin x * \cos x * \sqrt{3} - 1/8 * H_b(4,3,7, \text{plext}, \text{plext}) * F^{-3} * \sin x^2 \\
& + 1/12 * H_b(4,6,8, \text{qext}, \text{qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} - 1/8 * H_b(4,6,8, \text{qext}, \text{qext}) * F^{-3} * \sin x^2 \\
& - 1/12 * H_b(4,7,8, \text{plext}, \text{plext}) * F^{-3} * \sin x * \cos x * \sqrt{3} + 1/8 * H_b(4,7,8, \text{plext}, \text{plext}) * F^{-3} * \sin x^2 \\
& + 1/8 * H_b(5,1,4, \text{plext}, \text{plext}) * F^{-3} - 1/8 * H_b(5,2,4, \text{qext}, \text{qext}) * F^{-3} - \\
& 1/8 * H_b(5,3,7, \text{qext}, \text{qext}) * F^{-3} - 1/12 * H_b(5,3,7, \text{qext}, \text{qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} \\
& + 1/8 * H_b(5,3,7, \text{qext}, \text{qext}) * F^{-3} * \sin x^2 + 1/12 * H_b(5,7,8, \text{qext}, \text{qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} \\
& - 1/8 * H_b(5,7,8, \text{qext}, \text{qext}) * F^{-3} * \sin x^2 + 1/8 * H_b(6,1,7, \text{plext}, \text{plext}) * F^{-3} \\
& - 1/8 * H_b(6,2,7, \text{qext}, \text{qext}) * F^{-3} - 1/8 * H_b(6,3,4, \text{qext}, \text{qext}) * F^{-3} + 1/12 * H_b(6,3,4, \text{qext}, \text{qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} \\
& + 1/8 * H_b(6,3,4, \text{qext}, \text{qext}) * F^{-3} * \sin x^2 - 1/12 * H_b(6,4,8, \text{qext}, \text{qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} \\
& - 1/8 * H_b(6,4,8, \text{qext}, \text{qext}) * F^{-3} * \sin x^2 - 1/8 * H_b(7,2,6, \text{qext}, \text{qext}) * F^{-3} \\
& - 3 + 1/8 * H_b(7,3,4, \text{plext}, \text{plext}) * F^{-3} - 1/12 * H_b(7,3,4, \text{plext}, \text{plext}) * F^{-3} * \sin x * \cos x * \sqrt{3} \\
& - 1/8 * H_b(7,3,4, \text{plext}, \text{plext}) * F^{-3} * \sin x^2 - 1/8 * H_b(7,3,5, \text{qext}, \text{qext}) * F^{-3} \\
& + 1/12 * H_b(7,3,5, \text{qext}, \text{qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} + 1/8 * H_b(7,3,5, \text{qext}, \text{qext}) * F^{-3} * \sin x^2 \\
& + 1/12 * H_b(7,4,8, \text{plext}, \text{plext}) * F^{-3} * \sin x * \cos x * \sqrt{3} + 1/8 * H_b(7,4,8, \text{plext}, \text{plext}) * F^{-3} * \sin x^2 \\
& - 1/12 * H_b(7,5,8, \text{qext}, \text{qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} - 1/8 * H_b(7,5,8, \text{qext}, \text{qext}) * F^{-3} * \sin x^2 \\
& - 1/4 * H_b(8,4,6, \text{qext}, \text{qext}) * F^{-3} + 1/4 * H_b(8,4,6, \text{qext}, \text{qext}) * F^{-3}
\end{aligned}$$

$$3^*\sin x^2 + 1/4^*\text{Hb}(8,4,7,\text{p1ext.p1ext})^*F^{-3} - 1/4^*\text{Hb}(8,4,7,\text{p1ext.p1ext})^*F^{-3} - 3^*\sin x^2 - 1/4^*\text{Hb}(8,5,7,\text{qext.qext})^*F^{-3} + 1/4^*\text{Hb}(8,5,7,\text{qext.qext})^*F^{-3} - 3^*\sin x^2)$$

$$+ \text{mkp}2^2 * (+ 15/8192^*F^{-3*\pi^{-4}} + 11/18432^*F^{-3*\pi^{-2}} - 1/2^*F^{-3*\pi^{-2}*L8r} - F^{-3*\pi^{-2}*L6r} + 1/4^*F^{-3*\pi^{-2}*L5r} + 1/2^*F^{-3*\pi^{-2}*L4r} - 43/432^*F^{-3*\pi^{-2}*L3r} - 13/36^*F^{-3*\pi^{-2}*L2r} - 32^*F^{-3*L4r^2} + 32^*F^{-3*CC16} - 1/1152^*\ln(3)^*F^{-3*\sin x^2*\pi^{-4}} + 16/9^*\ln(3)^*F^{-3*\sin x^2*\pi^{-2}*L8r} + 16/3^*\ln(3)^*F^{-3*\sin x^2*\pi^{-2}*L7r} - 4/9^*\ln(3)^*F^{-3*\sin x^2*\pi^{-2}*L4r} + 2/9^*\ln(3)^*F^{-3*\sin x^2*\pi^{-2}*L3r} + 2/9^*\ln(3)^*F^{-3*\sin x^2*\pi^{-2}*L2r} + 8/9^*\ln(3)^*F^{-3*\sin x^2*\pi^{-2}*L1r} - 16/9^*\ln(3)^*F^{-3*\sin x^4*\pi^{-2}*L8r} - 16/3^*\ln(3)^*F^{-3*\sin x^4*\pi^{-2}*L7r} - 19/13824^*\ln(3)^2^*F^{-3*\sin x^2*\pi^{-4}} - 13/13824^*\ln(3)^2^*F^{-3*\sin x^4*\pi^{-4}} + 1/432^*\ln(3)^2^*F^{-3*\sin x^6*\pi^{-4}} - 1/1024^*\ln(3)^*\ln(4)^*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} - 5/2304^*\ln(3)^*\ln(4)^*F^{-3*\sin x^2*\pi^{-4}} - 1/864^*\ln(3)^*\ln(4)^*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} + 1/576^*\ln(3)^*\ln(4)^*F^{-3*\sin x^4*\pi^{-4}} + 1/1024^*\ln(3)^*\ln(6)^*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} - 5/2304^*\ln(3)^*\ln(6)^*F^{-3*\sin x^2*\pi^{-4}} + 1/864^*\ln(3)^*\ln(6)^*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} + 1/576^*\ln(3)^*\ln(6)^*F^{-3*\sin x^4*\pi^{-4}} + 1/2304^*\ln(3)^*\ln(8)^*F^{-3*\sin x^2*\pi^{-4}} + 29/6912^*\ln(3)^*\ln(8)^*F^{-3*\sin x^4*\pi^{-4}} - 1/216^*\ln(3)^*\ln(8)^*F^{-3*\sin x^6*\pi^{-4}} + 1/1024^*\ln(4)^*F^{-3*\pi^{-4}} - 1/4^*\ln(4)^*F^{-3*\pi^{-2}*L8r} - 1/2^*\ln(4)^*F^{-3*\pi^{-2}*L6r} + 1/8^*\ln(4)^*F^{-3*\pi^{-2}*L5r} - 1/8^*\ln(4)^*F^{-3*\pi^{-2}*L4r} + 5/16^*\ln(4)^*F^{-3*\pi^{-2}*L3r} + 1/4^*\ln(4)^*F^{-3*\pi^{-2}*L2r} + \ln(4)^*F^{-3*\pi^{-2}*L1r} - 1/2304^*\ln(4)^*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} - 1/8192^*\ln(4)^2^*F^{-3*\pi^{-4}} + 1/4096^*\ln(4)^*\ln(6)^*F^{-3*\pi^{-4}} - 1/2304^*\ln(4)^*\ln(8)^*F^{-3*\pi^{-4}} + 1/1024^*\ln(4)^*\ln(8)^*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} + 5/2304^*\ln(4)^*\ln(8)^*F^{-3*\sin x^2*\pi^{-4}} + 1/864^*\ln(4)^*\ln(8)^*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} - 1/576^*\ln(4)^*\ln(8)^*F^{-3*\sin x^4*\pi^{-4}} + 1/1024^*\ln(6)^*F^{-3*\pi^{-4}} - 1/4^*\ln(6)^*F^{-3*\pi^{-2}*L8r} - 1/2^*\ln(6)^*F^{-3*\pi^{-2}*L6r} + 1/8^*\ln(6)^*F^{-3*\pi^{-2}*L5r} - 1/8^*\ln(6)^*F^{-3*\pi^{-2}*L4r} + 5/16^*\ln(6)^*F^{-3*\pi^{-2}*L3r} + 1/4^*\ln(6)^*F^{-3*\pi^{-2}*L2r} + \ln(6)^*F^{-3*\pi^{-2}*L1r} + 1/2304^*\ln(6)^*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} - 1/8192^*\ln(6)^2^*F^{-3*\pi^{-4}} - 1/2304^*\ln(6)^*\ln(8)^*F^{-3*\pi^{-4}} - 1/1024^*\ln(6)^*\ln(8)^*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} + 5/2304^*\ln(6)^*\ln(8)^*F^{-3*\sin x^2*\pi^{-4}} - 1/864^*\ln(6)^*\ln(8)^*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} - 1/576^*\ln(6)^*\ln(8)^*F^{-3*\sin x^4*\pi^{-4}} - 1/1152^*\ln(8)^*F^{-3*\pi^{-4}} - 4/9^*\ln(8)^*F^{-3*\pi^{-2}*L4r} + 2/9^*\ln(8)^*F^{-3*\pi^{-2}*L3r} + 2/9^*\ln(8)^*F^{-3*\pi^{-2}*L2r} + 8/9^*\ln(8)^*F^{-3*\pi^{-2}*L1r} + 1/1152^*\ln(8)^*F^{-3*\sin x^2*\pi^{-4}} - 16/9^*\ln(8)^*F^{-3*\sin x^2*\pi^{-2}*L8r} - 16/3^*\ln(8)^*F^{-3*\sin x^2*\pi^{-2}*L7r} + 4/9^*\ln(8)^*F^{-3*\sin x^2*\pi^{-2}*L4r} - 2/9^*\ln(8)^*F^{-3*\sin x^2*\pi^{-2}*L3r} - 2/9^*\ln(8)^*F^{-3*\sin x^2*\pi^{-2}*L2r} - 8/9^*\ln(8)^*F^{-3*\sin x^2*\pi^{-2}*L1r} + 16/9^*\ln(8)^*F^{-3*\sin x^4*\pi^{-2}*L8r} + 16/3^*\ln(8)^*F^{-3*\sin x^4*\pi^{-2}*L7r} + 13/13824^*\ln(8)^2^*F^{-3*\sin x^2*\pi^{-4}} - 5/1536^*\ln(8)^2^*F^{-3*\sin x^4*\pi^{-4}} + 1/432^*\ln(8)^2^*F^{-3*\sin x^6*\pi^{-4}})$$

$$+ \text{mkp}2^3 * (+ 1/1152^*/(\text{mass}(3))^*\ln(3)^2^*F^{-3*\sin x^2*\pi^{-4}} + 5/8192^*/(\text{mass}(4))^*\ln(4)^2^*F^{-3*\pi^{-4}} + 7/8192^*/(\text{mass}(5))^*\ln(4)^2^*F^{-3*\pi^{-4}} + 25/24576^*/(\text{mass}(6))^*\ln(6)^2^*F^{-3*\pi^{-4}} + 11/24576^*/(\text{mass}(7))^*\ln(6)^2^*F^{-3*\pi^{-4}} + 1/1152^*/(\text{mass}(8))^*\ln(8)^2^*F^{-3*\pi^{-4}} - 1/1152^*/(\text{mass}(8))^*\ln(8)^2^*F^{-3*\sin x^2*\pi^{-4}})$$

$$\begin{aligned}
& + \text{mpp2} * (-2/3 * \text{Hb}(1,1,2, \text{plext.plext}) * F^{-3} - 5/6 * \text{Hb}(1,2,2, \text{qext.qext}) * F^{-3} + \\
& 7/12 * \text{Hb}(1,3,3, \text{plext.plext}) * F^{-3} - 19/18 * \text{Hb}(1,3,3, \text{plext.plext}) * F^{-3} * \sin^2 \\
& + 17/36 * \text{Hb}(1,3,3, \text{plext.plext}) * F^{-3} * \sin^4 - 5/6 * \text{Hb}(1,3,3, \text{qext.qext}) * F^{-3} \\
& + 14/9 * \text{Hb}(1,3,3, \text{qext.qext}) * F^{-3} * \sin^2 - 13/18 * \text{Hb}(1,3,3, \text{qext.qext}) * F^{-3} \\
& * \sin^4 + 17/18 * \text{Hb}(1,3,8, \text{plext.plext}) * F^{-3} * \sin^2 - 17/18 * \text{Hb}(1,3,8, \text{plext.plext}) * F^{-3} \\
& * \sin^4 - 13/9 * \text{Hb}(1,3,8, \text{qext.qext}) * F^{-3} * \sin^2 + 13/9 * \text{Hb}(1,3,8, \text{qext.qext}) * F^{-3} \\
& * \sin^4 - 7/96 * \text{Hb}(1,4,4, \text{qext.qext}) * F^{-3} - 1/3 * \text{Hb}(1,4,5, \text{plext.plext}) * F^{-3} \\
& - 7/96 * \text{Hb}(1,5,5, \text{qext.qext}) * F^{-3} - 7/96 * \text{Hb}(1,6,6, \text{qext.qext}) * F^{-3} - \\
& 7/96 * \text{Hb}(1,7,7, \text{qext.qext}) * F^{-3} + 1/9 * \text{Hb}(1,8,8, \text{plext.plext}) * F^{-3} * \sin^2 \\
& + 17/36 * \text{Hb}(1,8,8, \text{plext.plext}) * F^{-3} * \sin^4 - 1/9 * \text{Hb}(1,8,8, \text{qext.qext}) * F^{-3} \\
& * \sin^2 - 13/18 * \text{Hb}(1,8,8, \text{qext.qext}) * F^{-3} * \sin^4 + 1/4 * \text{Hb}(2,1,1, \text{plext.plext}) * F^{-3} \\
& + 5/16 * \text{Hb}(2,4,5, \text{qext.qext}) * F^{-3} + 5/16 * \text{Hb}(2,6,7, \text{qext.qext}) * F^{-3} + \\
& 5/16 * \text{Hb}(3,4,6, \text{qext.qext}) * F^{-3} - 1/3 * \text{Hb}(3,4,6, \text{qext.qext}) * F^{-3} * \sin * \cos * \sqrt{3} \\
& - 1/3 * \text{Hb}(3,4,6, \text{qext.qext}) * F^{-3} * \sin^2 - 9/16 * \text{Hb}(3,4,7, \text{plext.plext}) * F^{-3} + \\
& 2/3 * \text{Hb}(3,4,7, \text{plext.plext}) * F^{-3} * \sin * \cos * \sqrt{3} + 2/3 * \text{Hb}(3,4,7, \text{plext.plext}) * F^{-3} \\
& * \sin^2 + 5/16 * \text{Hb}(3,5,7, \text{qext.qext}) * F^{-3} - 1/3 * \text{Hb}(3,5,7, \text{qext.qext}) * F^{-3} \\
& * \sin * \cos * \sqrt{3} - 1/3 * \text{Hb}(3,5,7, \text{qext.qext}) * F^{-3} * \sin^2 - 1/24 * \text{Hb}(4,3,6, \text{qext.qext}) * F^{-3} \\
& * \sin * \cos * \sqrt{3} + 1/24 * \text{Hb}(4,3,7, \text{plext.plext}) * F^{-3} * \sin * \cos * \sqrt{3} + \\
& 5/12 * \text{Hb}(4,6,8, \text{qext.qext}) * F^{-3} + 1/24 * \text{Hb}(4,6,8, \text{qext.qext}) * F^{-3} * \sin * \cos * \sqrt{3} \\
& - 2/3 * \text{Hb}(4,6,8, \text{qext.qext}) * F^{-3} * \sin^2 - 5/6 * \text{Hb}(4,7,8, \text{plext.plext}) * F^{-3} - \\
& 1/24 * \text{Hb}(4,7,8, \text{plext.plext}) * F^{-3} * \sin * \cos * \sqrt{3} + 4/3 * \text{Hb}(4,7,8, \text{plext.plext}) * F^{-3} \\
& * \sin^2 - 1/24 * \text{Hb}(5,3,7, \text{qext.qext}) * F^{-3} * \sin * \cos * \sqrt{3} + 5/12 * \text{Hb}(5,7,8, \text{qext.qext}) * F^{-3} \\
& + 1/24 * \text{Hb}(5,7,8, \text{qext.qext}) * F^{-3} * \sin * \cos * \sqrt{3} - 2/3 * \text{Hb}(5,7,8, \text{qext.qext}) * F^{-3} \\
& * \sin^2 + 1/24 * \text{Hb}(6,3,4, \text{qext.qext}) * F^{-3} * \sin * \cos * \sqrt{3} - 1/24 * \text{Hb}(6,4,8, \text{qext.qext}) * F^{-3} \\
& * \sin * \cos * \sqrt{3} - 1/24 * \text{Hb}(7,3,4, \text{plext.plext}) * F^{-3} * \sin * \cos * \sqrt{3} + \\
& 1/24 * \text{Hb}(7,3,5, \text{qext.qext}) * F^{-3} * \sin * \cos * \sqrt{3} + 1/24 * \text{Hb}(7,4,8, \text{plext.plext}) * F^{-3} \\
& * \sin * \cos * \sqrt{3} - 1/24 * \text{Hb}(7,5,8, \text{qext.qext}) * F^{-3} * \sin * \cos * \sqrt{3} + \\
& 1/16 * \text{Hb}(8,4,6, \text{qext.qext}) * F^{-3} - 1/16 * \text{Hb}(8,4,7, \text{plext.plext}) * F^{-3} + 1/16 * \text{Hb}(8,5,7, \text{qext.qext}) * F^{-3} \\
& - 3/2 * \text{H21b}(1,2,2, \text{qext.qext}) * F^{-3} + 3/2 * \text{H21b}(1,3,3, \text{plext.plext}) * F^{-3} - \\
& 3 * \text{H21b}(1,3,3, \text{plext.plext}) * F^{-3} * \sin^2 + 3/2 * \text{H21b}(1,3,3, \text{plext.plext}) * F^{-3} \\
& * \sin^4 - 3/2 * \text{H21b}(1,3,3, \text{qext.qext}) * F^{-3} + 3 * \text{H21b}(1,3,3, \text{qext.qext}) * F^{-3} \\
& * \sin^2 - 3/2 * \text{H21b}(1,3,3, \text{qext.qext}) * F^{-3} * \sin^4 + 3 * \text{H21b}(1,3,8, \text{plext.plext}) * F^{-3} \\
& * \sin^2 - 3 * \text{H21b}(1,3,8, \text{plext.plext}) * F^{-3} * \sin^4 - 3 * \text{H21b}(1,3,8, \text{qext.qext}) * F^{-3} \\
& * \sin^2 + 3 * \text{H21b}(1,3,8, \text{qext.qext}) * F^{-3} * \sin^4 - 3/32 * \text{H21b}(1,4,4, \text{qext.qext}) * F^{-3} \\
& - 3/32 * \text{H21b}(1,5,5, \text{qext.qext}) * F^{-3} - 3/32 * \text{H21b}(1,6,6, \text{qext.qext}) * F^{-3} - \\
& 3/32 * \text{H21b}(1,7,7, \text{qext.qext}) * F^{-3} + 3/2 * \text{H21b}(1,8,8, \text{plext.plext}) * F^{-3} * \sin^4 \\
& - 3/2 * \text{H21b}(1,8,8, \text{qext.qext}) * F^{-3} * \sin^4 + 3/2 * \text{H21b}(2,1,1, \text{plext.plext}) * F^{-3} \\
& + 3/16 * \text{H21b}(2,4,5, \text{qext.qext}) * F^{-3} + 3/16 * \text{H21b}(2,6,7, \text{qext.qext}) * F^{-3} + \\
& 3/16 * \text{H21b}(3,4,6, \text{qext.qext}) * F^{-3} - 3/4 * \text{H21b}(3,4,6, \text{qext.qext}) * F^{-3} * \sin^2 \\
& - 3/8 * \text{H21b}(3,4,7, \text{plext.plext}) * F^{-3} + 3/2 * \text{H21b}(3,4,7, \text{plext.plext}) * F^{-3} \\
& * \sin^2 + 3/16 * \text{H21b}(3,5,7, \text{qext.qext}) * F^{-3} - 3/4 * \text{H21b}(3,5,7, \text{qext.qext}) * F^{-3} \\
& * \sin^2 - 3/8 * \text{H21b}(4,2,5, \text{qext.qext}) * F^{-3} - 3/8 * \text{H21b}(4,3,6, \text{qext.qext}) * F^{-3} - \\
& 3/8 * \text{H21b}(4,3,6, \text{qext.qext}) * F^{-3} * \sin * \cos * \sqrt{3} + 3/8 * \text{H21b}(4,3,6, \text{qext.qext}) * F^{-3} \\
& * \sin^2 + 3/4 * \text{H21b}(4,3,7, \text{plext.plext}) * F^{-3} + 3/4 * \text{H21b}(4,3,7, \text{plext.plext}) * F^{-3} \\
& * \sin * \cos * \sqrt{3} - 3/4 * \text{H21b}(4,3,7, \text{plext.plext}) * F^{-3} * \sin^2 + 3/8 * \text{H21b}(4,6,8, \text{qext.qext}) * F^{-3} \\
& * \sin * \cos * \sqrt{3} - 3/8 * \text{H21b}(4,6,8, \text{qext.qext}) * F^{-3} * \sin^2 - 3/4 * \text{H21b}(4,7,8, \text{plext.plext}) * F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\cos x^*\sqrt{3} + 3/4^*H21b(4,7,8,p1ext.p1ext)^*F^{-3}*\sin x^2 + 3/4^*H21b(5,1,4,p1ext.p1ext)^*F^{-3} \\
& - 3/8^*H21b(5,2,4,qext.qext)^*F^{-3} - 3/8^*H21b(5,3,7,qext.qext)^*F^{-3} - \\
& 3/8^*H21b(5,3,7,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/8^*H21b(5,3,7,qext.qext)^*F^{-3} \\
& 3^*\sin x^2 + 3/8^*H21b(5,7,8,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/8^*H21b(5,7,8,qext.qext)^*F^{-3} \\
& 3^*\sin x^2 + 3/4^*H21b(6,1,7,p1ext.p1ext)^*F^{-3} - 3/8^*H21b(6,2,7,qext.qext)^*F^{-3} \\
& - 3/8^*H21b(6,3,4,qext.qext)^*F^{-3} + 3/8^*H21b(6,3,4,qext.qext)^*F^{-3} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 3/8^*H21b(6,3,4,qext.qext)^*F^{-3}*\sin x^2 - 3/8^*H21b(6,4,8,qext.qext)^*F^{-3} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 3/8^*H21b(6,4,8,qext.qext)^*F^{-3}*\sin x^2 - 3/8^*H21b(7,2,6,qext.qext)^*F^{-3} \\
& + 3/4^*H21b(7,3,4,p1ext.p1ext)^*F^{-3} - 3/4^*H21b(7,3,4,p1ext.p1ext)^*F^{-3} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 3/4^*H21b(7,3,4,p1ext.p1ext)^*F^{-3}*\sin x^2 - 3/8^*H21b(7,3,5,qext.qext)^*F^{-3} \\
& + 3/8^*H21b(7,3,5,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/8^*H21b(7,3,5,qext.qext)^*F^{-3} \\
& 3^*\sin x^2 + 3/4^*H21b(7,4,8,p1ext.p1ext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/4^*H21b(7,4,8,p1ext.p1ext)^*F^{-3} \\
& 3^*\sin x^2 - 3/8^*H21b(7,5,8,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/8^*H21b(7,5,8,qext.qext)^*F^{-3} \\
& 3^*\sin x^2 - 9/16^*H21b(8,4,6,qext.qext)^*F^{-3} + 3/4^*H21b(8,4,6,qext.qext)^*F^{-3} \\
& 3^*\sin x^2 + 9/8^*H21b(8,4,7,p1ext.p1ext)^*F^{-3} - 3/2^*H21b(8,4,7,p1ext.p1ext)^*F^{-3} \\
& 3^*\sin x^2 - 9/16^*H21b(8,5,7,qext.qext)^*F^{-3} + 3/4^*H21b(8,5,7,qext.qext)^*F^{-3} \\
& 3^*\sin x^2 + 4/3^*HH1b(1,1,2,p1ext.p1ext)^*F^{-3} + 5/3^*HH1b(1,2,2,qext.qext)^*F^{-3} \\
& - 5/3^*HH1b(1,3,3,p1ext.p1ext)^*F^{-3} + 3^*HH1b(1,3,3,p1ext.p1ext)^*F^{-3} \\
& 3^*\sin x^2 - 4/3^*HH1b(1,3,3,p1ext.p1ext)^*F^{-3}*\sin x^4 + 5/3^*HH1b(1,3,3,qext.qext)^*F^{-3} \\
& - 3^*HH1b(1,3,3,qext.qext)^*F^{-3}*\sin x^2 + 4/3^*HH1b(1,3,3,qext.qext)^*F^{-3} \\
& 3^*\sin x^4 - 8/3^*HH1b(1,3,8,p1ext.p1ext)^*F^{-3}*\sin x^2 + 8/3^*HH1b(1,3,8,p1ext.p1ext)^*F^{-3} \\
& 3^*\sin x^4 + 8/3^*HH1b(1,3,8,qext.qext)^*F^{-3}*\sin x^2 - 8/3^*HH1b(1,3,8,qext.qext)^*F^{-3} \\
& 3^*\sin x^4 + 1/6^*HH1b(1,4,4,qext.qext)^*F^{-3} + 1/3^*HH1b(1,4,5,p1ext.p1ext)^*F^{-3} \\
& + 1/6^*HH1b(1,5,5,qext.qext)^*F^{-3} + 1/6^*HH1b(1,6,6,qext.qext)^*F^{-3} + \\
& 1/6^*HH1b(1,7,7,qext.qext)^*F^{-3} - 1/3^*HH1b(1,8,8,p1ext.p1ext)^*F^{-3}*\sin x^2 \\
& - 4/3^*HH1b(1,8,8,p1ext.p1ext)^*F^{-3}*\sin x^4 + 1/3^*HH1b(1,8,8,qext.qext)^*F^{-3} \\
& 3^*\sin x^2 + 4/3^*HH1b(1,8,8,qext.qext)^*F^{-3}*\sin x^4 - 1/2^*HH1b(2,4,5,qext.qext)^*F^{-3} \\
& - 3 - 1/2^*HH1b(2,6,7,qext.qext)^*F^{-3} - 1/2^*HH1b(3,4,6,qext.qext)^*F^{-3} + \\
& 1/3^*HH1b(3,4,6,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + HH1b(3,4,6,qext.qext)^*F^{-3} \\
& 3^*\sin x^2 + HH1b(3,4,7,p1ext.p1ext)^*F^{-3} - 2/3^*HH1b(3,4,7,p1ext.p1ext)^*F^{-3} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 2^*HH1b(3,4,7,p1ext.p1ext)^*F^{-3}*\sin x^2 - 1/2^*HH1b(3,5,7,qext.qext)^*F^{-3} \\
& + 1/3^*HH1b(3,5,7,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + HH1b(3,5,7,qext.qext)^*F^{-3} \\
& 3^*\sin x^2 + 1/3^*HH1b(4,1,5,p1ext.p1ext)^*F^{-3} + 2/3^*HH1b(4,3,6,qext.qext)^*F^{-3} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 4/3^*HH1b(4,3,7,p1ext.p1ext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - \\
& 1/2^*HH1b(4,6,8,qext.qext)^*F^{-3} - 1/3^*HH1b(4,6,8,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} \\
& + HH1b(4,6,8,qext.qext)^*F^{-3}*\sin x^2 + HH1b(4,7,8,p1ext.p1ext)^*F^{-3} + \\
& 2/3^*HH1b(4,7,8,p1ext.p1ext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 2^*HH1b(4,7,8,p1ext.p1ext)^*F^{-3} \\
& 3^*\sin x^2 + 2/3^*HH1b(5,3,7,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/2^*HH1b(5,7,8,qext.qext)^*F^{-3} \\
& - 1/3^*HH1b(5,7,8,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + HH1b(5,7,8,qext.qext)^*F^{-3} \\
& 3^*\sin x^2 - 1/3^*HH1b(6,1,7,p1ext.p1ext)^*F^{-3} - 1/2^*HH1b(6,4,8,qext.qext)^*F^{-3} \\
& + 1/3^*HH1b(6,4,8,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + HH1b(6,4,8,qext.qext)^*F^{-3} \\
& 3^*\sin x^2 + HH1b(7,4,8,p1ext.p1ext)^*F^{-3} - 2/3^*HH1b(7,4,8,p1ext.p1ext)^*F^{-3} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 2^*HH1b(7,4,8,p1ext.p1ext)^*F^{-3}*\sin x^2 - 1/2^*HH1b(7,5,8,qext.qext)^*F^{-3} \\
& + 1/3^*HH1b(7,5,8,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + HH1b(7,5,8,qext.qext)^*F^{-3} \\
& 3^*\sin x^2)
\end{aligned}$$

$$\begin{aligned}
& + \text{mpp2*mkp2} * (- 5/8192 * F^{-3 * \pi^4} + 1/36864 * F^{-3 * \pi^2} - 5/2 * F^{-3 * \pi^2} \\
& - 2 * L6r + 5/4 * F^{-3 * \pi^2} * L4r + 1/54 * F^{-3 * \pi^2} * L3r + 1/18 * F^{-3 * \pi^2} * L2r \\
& - 32 * F^{-3 * L4r} * L5r - 32 * F^{-3 * L4r^2} - 32 * F^{-3 * CC16} + 16 * F^{-3 * CC15} + \\
& 1/1024 * \ln(1) * F^{-3 * \pi^4} - \ln(1) * F^{-3 * \pi^2} * L6r + 3/4 * \ln(1) * F^{-3 * \pi^2} * L4r \\
& + 1/768 * \ln(1) * \ln(3) * F^{-3 * \sin^2 * \pi^4} - 1/1152 * \ln(1) * \ln(3) * F^{-3 * \sin^4 * \pi^4} \\
& - 4 + 1/2304 * \ln(1) * \ln(8) * F^{-3 * \pi^4} - 1/768 * \ln(1) * \ln(8) * F^{-3 * \sin^2 * \pi^4} + \\
& 1/1152 * \ln(1) * \ln(8) * F^{-3 * \sin^4 * \pi^4} + 1/1024 * \ln(3) * F^{-3 * \pi^4} - \ln(3) * F^{-3 * \pi^2} * L6r \\
& + 3/4 * \ln(3) * F^{-3 * \pi^2} * L4r + 1/9216 * \ln(3) * F^{-3 * \sin^2 * \pi^4} \\
& - 32/9 * \ln(3) * F^{-3 * \sin^2 * \pi^2} * L8r - 32/3 * \ln(3) * F^{-3 * \sin^2 * \pi^2} * L7r \\
& + \ln(3) * F^{-3 * \sin^2 * \pi^2} * L6r - 1/18 * \ln(3) * F^{-3 * \sin^2 * \pi^2} * L5r - \\
& 19/36 * \ln(3) * F^{-3 * \sin^2 * \pi^2} * L4r - 1/9 * \ln(3) * F^{-3 * \sin^2 * \pi^2} * L3r \\
& - 1/9 * \ln(3) * F^{-3 * \sin^2 * \pi^2} * L2r - 4/9 * \ln(3) * F^{-3 * \sin^2 * \pi^2} * L1r \\
& + 32/9 * \ln(3) * F^{-3 * \sin^4 * \pi^2} * L8r + 32/3 * \ln(3) * F^{-3 * \sin^4 * \pi^2} * L7r \\
& + 29/13824 * \ln(3)^2 * F^{-3 * \sin^2 * \pi^4} - 13/13824 * \ln(3)^2 * F^{-3 * \sin^4 * \pi^4} \\
& - 1/864 * \ln(3)^2 * F^{-3 * \sin^6 * \pi^4} + 1/18432 * \ln(3) * \ln(4) * F^{-3 * \sin^2 * \cos^2 * \sqrt{3} * \pi^4} \\
& + 29/9216 * \ln(3) * \ln(4) * F^{-3 * \sin^2 * \pi^4} + 1/6912 * \ln(3) * \ln(4) * F^{-3 * \sin^4 * \cos^2 * \sqrt{3} * \pi^4} \\
& - 7/2304 * \ln(3) * \ln(4) * F^{-3 * \sin^4 * \pi^4} - 1/18432 * \ln(3) * \ln(6) * F^{-3 * \sin^2 * \cos^2 * \sqrt{3} * \pi^4} \\
& + 29/9216 * \ln(3) * \ln(6) * F^{-3 * \sin^2 * \pi^4} - 1/6912 * \ln(3) * \ln(6) * F^{-3 * \sin^4 * \cos^2 * \sqrt{3} * \pi^4} \\
& - 7/2304 * \ln(3) * \ln(6) * F^{-3 * \sin^4 * \pi^4} + 1/2304 * \ln(3) * \ln(8) * F^{-3 * \sin^2 * \pi^4} \\
& + 1/2304 * \ln(3) * \ln(8) * F^{-3 * \sin^4 * \pi^4} + 1/432 * \ln(3) * \ln(8) * F^{-3 * \sin^6 * \pi^4} \\
& - 1/4096 * \ln(4) * F^{-3 * \pi^4} - 1/4 * \ln(4) * F^{-3 * \pi^2} * L6r - 1/16 * \ln(4) * F^{-3 * \pi^2} * L5r \\
& + 3/16 * \ln(4) * F^{-3 * \pi^2} * L4r + 1/2304 * \ln(4) * F^{-3 * \sin^2 * \cos^2 * \sqrt{3} * \pi^4} \\
& + 1/9216 * \ln(4) * \ln(8) * F^{-3 * \pi^4} - 1/18432 * \ln(4) * \ln(8) * F^{-3 * \sin^2 * \cos^2 * \sqrt{3} * \pi^4} \\
& - 29/9216 * \ln(4) * \ln(8) * F^{-3 * \sin^2 * \pi^4} - 1/6912 * \ln(4) * \ln(8) * F^{-3 * \sin^4 * \cos^2 * \sqrt{3} * \pi^4} \\
& + 7/2304 * \ln(4) * \ln(8) * F^{-3 * \sin^4 * \pi^4} + 1/4096 * \ln(6) * F^{-3 * \pi^4} - 1/4 * \ln(6) * F^{-3 * \pi^2} * L6r \\
& - 1/16 * \ln(6) * F^{-3 * \pi^2} * L5r + 3/16 * \ln(6) * F^{-3 * \pi^2} * L4r + 1/2304 * \ln(6) * F^{-3 * \sin^2 * \cos^2 * \sqrt{3} * \pi^4} \\
& + 1/9216 * \ln(6) * \ln(8) * F^{-3 * \pi^4} + 1/18432 * \ln(6) * \ln(8) * F^{-3 * \sin^2 * \cos^2 * \sqrt{3} * \pi^4} \\
& - 29/9216 * \ln(6) * \ln(8) * F^{-3 * \sin^2 * \pi^4} + 1/6912 * \ln(6) * \ln(8) * F^{-3 * \sin^4 * \cos^2 * \sqrt{3} * \pi^4} \\
& + 7/2304 * \ln(6) * \ln(8) * F^{-3 * \sin^4 * \pi^4} + 5/4608 * \ln(8) * F^{-3 * \pi^4} - 1/18 * \ln(8) * F^{-3 * \pi^2} * L5r \\
& + 2/9 * \ln(8) * F^{-3 * \pi^2} * L4r - 1/9 * \ln(8) * F^{-3 * \pi^2} * L3r - 1/9 * \ln(8) * F^{-3 * \pi^2} * L2r \\
& - 4/9 * \ln(8) * F^{-3 * \pi^2} * L1r - 1/9216 * \ln(8) * F^{-3 * \sin^2 * \pi^4} + 32/9 * \ln(8) * F^{-3 * \sin^2 * \pi^2} * L8r \\
& + 32/3 * \ln(8) * F^{-3 * \sin^2 * \pi^2} * L7r - \ln(8) * F^{-3 * \sin^2 * \pi^2} * L6r \\
& + 1/18 * \ln(8) * F^{-3 * \sin^2 * \pi^2} * L5r + 19/36 * \ln(8) * F^{-3 * \sin^2 * \pi^2} * L4r \\
& + 1/9 * \ln(8) * F^{-3 * \sin^2 * \pi^2} * L3r + 1/9 * \ln(8) * F^{-3 * \sin^2 * \pi^2} * L2r \\
& + 4/9 * \ln(8) * F^{-3 * \sin^2 * \pi^2} * L1r - 32/9 * \ln(8) * F^{-3 * \sin^4 * \pi^2} * L8r - \\
& 32/3 * \ln(8) * F^{-3 * \sin^4 * \pi^2} * L7r - 35/13824 * \ln(8)^2 * F^{-3 * \sin^2 * \pi^4} + \\
& 17/4608 * \ln(8)^2 * F^{-3 * \sin^4 * \pi^4} - 1/864 * \ln(8)^2 * F^{-3 * \sin^6 * \pi^4} + \\
& 1/4 * \text{Hb}(3,4,7,1, \text{plext.plext}) * F^{-3 * \sin^2} + 1/8 * \text{Hb}(4,3,7,1, \text{plext.plext}) * F^{-3} \\
& + 1/12 * \text{Hb}(4,3,7,1, \text{plext.plext}) * F^{-3 * \sin^2 * \cos^2 * \sqrt{3}} - 1/8 * \text{Hb}(4,3,7,1, \text{plext.plext}) * F^{-3 * \sin^2} \\
& - 1/12 * \text{Hb}(4,7,8,1, \text{plext.plext}) * F^{-3 * \sin^2 * \cos^2 * \sqrt{3}} + 1/8 * \text{Hb}(4,7,8,1, \text{plext.plext}) * F^{-3 * \sin^2} \\
& + 1/8 * \text{Hb}(5,1,4,1, \text{plext.plext}) * F^{-3} + 1/8 * \text{Hb}(6,1,7,1, \text{plext.plext}) * F^{-3} \\
& + 1/8 * \text{Hb}(7,3,4,1, \text{plext.plext}) * F^{-3} - 1/12 * \text{Hb}(7,3,4,1, \text{plext.plext}) * F^{-3 * \sin^2 * \cos^2 * \sqrt{3}} \\
& - 1/8 * \text{Hb}(7,3,4,1, \text{plext.plext}) * F^{-3 * \sin^2} + 1/12 * \text{Hb}(7,4,8,1, \text{plext.plext}) * F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3*\sin x*\cos x*\sqrt{3} + 1/8*\text{Hb}(7,4,8,1,\text{p1ext.p1ext})*F^{-3*\sin x^2} + 1/4*\text{Hb}(8,4,7,1,\text{p1ext.p1ext})*F^{-3} \\
& - 1/4*\text{Hb}(8,4,7,1,\text{p1ext.p1ext})*F^{-3*\sin x^2} \\
& + \text{mpp2}^2*\text{mkp2}^2 * (- 1/1536/(\text{mass}(3))^*\ln(3)^2F^{-3*\sin x^2*\pi^{-4}} - \\
& 1/4096/(\text{mass}(4))^*\ln(4)^2F^{-3*\pi^{-4}} - 1/6144/(\text{mass}(6))^*\ln(6)^2F^{-3*\pi^{-4}} - \\
& 1/12288/(\text{mass}(7))^*\ln(6)^2F^{-3*\pi^{-4}} - 1/1536/(\text{mass}(8))^*\ln(8)^2F^{-3*\pi^{-4}} \\
& + 1/1536/(\text{mass}(8))^*\ln(8)^2F^{-3*\sin x^2*\pi^{-4}}) \\
& + \text{mpp2}^2 * (+ 41/32768F^{-3*\pi^{-4}} + 35/73728F^{-3*\pi^{-2}} - F^{-3*\pi^{-2}}*L8r \\
& - F^{-3*\pi^{-2}}*L6r + 1/2F^{-3*\pi^{-2}}*L5r + 1/2F^{-3*\pi^{-2}}*L4r - 7/108F^{-3*\pi^{-2}}*L3r \\
& - 37/144F^{-3*\pi^{-2}}*L2r - 1/8F^{-3*\pi^{-2}}*L1r - 8F^{-3}*L5r^2 - 16F^{-3}*L4r*L5r \\
& - 8F^{-3}*L4r^2 + 8F^{-3}*CC17 + 24F^{-3}*CC16 + 8F^{-3}*CC15 + 8F^{-3}*CC14 \\
& - 1/2048*\ln(1)*F^{-3*\pi^{-4}} - 1/2*\ln(1)*F^{-3*\pi^{-2}}*L8r - 1/2*\ln(1)*F^{-3*\pi^{-2}}*L6r \\
& + 1/8*\ln(1)*F^{-3*\pi^{-2}}*L5r - 1/8*\ln(1)*F^{-3*\pi^{-2}}*L4r + 5/8*\ln(1)*F^{-3*\pi^{-2}}*L3r + 7/8*\ln(1)*F^{-3*\pi^{-2}}*L2r \\
& + 5/4*\ln(1)*F^{-3*\pi^{-2}}*L1r + 1/2048*\ln(1)^2F^{-3*\pi^{-4}} - 1/256*\ln(1)*\ln(3)*F^{-3*\pi^{-4}} \\
& + 5/3072*\ln(1)*\ln(3)*F^{-3*\sin x^2*\pi^{-4}} + 5/2304*\ln(1)*\ln(3)*F^{-3*\sin x^4*\pi^{-4}} \\
& - 1/9216*\ln(1)*\ln(8)*F^{-3*\pi^{-4}} - 5/3072*\ln(1)*\ln(8)*F^{-3*\sin x^4*\pi^{-4}} \\
& - 5/2304*\ln(1)*\ln(8)*F^{-3*\sin x^2*\pi^{-4}} - 5/2304*\ln(1)*\ln(8)*F^{-3*\sin x^4*\pi^{-4}} \\
& + 3/2048*\ln(3)*F^{-3*\pi^{-4}} - 1/2*\ln(3)*F^{-3*\pi^{-2}}*L8r - 1/2*\ln(3)*F^{-3*\pi^{-2}}*L6r \\
& + 1/4*\ln(3)*F^{-3*\pi^{-2}}*L5r + 1/8*\ln(3)*F^{-3*\pi^{-2}}*L4r + 1/4*\ln(3)*F^{-3*\pi^{-2}}*L3r \\
& + 1/8*\ln(3)*F^{-3*\pi^{-2}}*L2r + 1/2*\ln(3)*F^{-3*\pi^{-2}}*L1r - 31/18432*\ln(3)*F^{-3*\sin x^2*\pi^{-4}} \\
& + 41/18*\ln(3)*F^{-3*\sin x^2*\pi^{-4}} + 2*\ln(3)*F^{-3*\sin x^2*\pi^{-2}}*L8r + 16/3*\ln(3)*F^{-3*\sin x^2*\pi^{-2}}*L7r \\
& + 1/2*\ln(3)*F^{-3*\sin x^2*\pi^{-2}}*L6r - 17/72*\ln(3)*F^{-3*\sin x^2*\pi^{-2}}*L5r - 11/72*\ln(3)*F^{-3*\sin x^2*\pi^{-2}}*L4r \\
& - 17/72*\ln(3)*F^{-3*\sin x^2*\pi^{-2}}*L3r - 1/9*\ln(3)*F^{-3*\sin x^2*\pi^{-2}}*L2r - 4/9*\ln(3)*F^{-3*\sin x^2*\pi^{-2}}*L1r \\
& - 16/9*\ln(3)*F^{-3*\sin x^4*\pi^{-4}} + 3/2048*\ln(3)^2F^{-3*\pi^{-4}} - 37/13824*\ln(3)^2F^{-3*\sin x^2*\pi^{-4}} \\
& + 131/55296*\ln(3)^2F^{-3*\sin x^4*\pi^{-4}} - 1/864*\ln(3)^2F^{-3*\sin x^6*\pi^{-4}} - 1/4608*\ln(3)*\ln(4)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} \\
& - 1/1536*\ln(3)*\ln(4)*F^{-3*\sin x^2*\pi^{-4}} + 5/13824*\ln(3)*\ln(4)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} \\
& + 1/1536*\ln(3)*\ln(4)*F^{-3*\sin x^4*\pi^{-4}} + 1/4608*\ln(3)*\ln(6)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} \\
& - 1/1536*\ln(3)*\ln(6)*F^{-3*\sin x^2*\pi^{-4}} - 5/13824*\ln(3)*\ln(6)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} \\
& + 1/1536*\ln(3)*\ln(6)*F^{-3*\sin x^4*\pi^{-4}} - 1/9216*\ln(3)*\ln(8)*F^{-3*\pi^{-4}} + 1/9216*\ln(3)*\ln(8)*F^{-3*\sin x^2*\pi^{-4}} \\
& - 67/27648*\ln(3)*\ln(8)*F^{-3*\sin x^4*\pi^{-4}} + 1/432*\ln(3)*\ln(8)*F^{-3*\sin x^6*\pi^{-4}} + 1/4608*\ln(4)*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} \\
& + 1/1536*\ln(4)*\ln(8)*F^{-3*\sin x^2*\pi^{-4}} - 5/13824*\ln(4)*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} \\
& - 1/1536*\ln(4)*\ln(8)*F^{-3*\sin x^4*\pi^{-4}} - 1/4608*\ln(6)*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} \\
& + 1/1536*\ln(6)*\ln(8)*F^{-3*\sin x^2*\pi^{-4}} + 5/13824*\ln(6)*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} \\
& - 1/1536*\ln(6)*\ln(8)*F^{-3*\sin x^4*\pi^{-4}} - 1/4608*\ln(8)*F^{-3*\pi^{-4}} + 1/72*\ln(8)*F^{-3*\pi^{-2}}*L5r \\
& - 1/36*\ln(8)*F^{-3*\pi^{-2}}*L4r + 1/72*\ln(8)*F^{-3*\pi^{-2}}*L3r + 1/72*\ln(8)*F^{-3*\pi^{-2}}*L2r + 1/18*\ln(8)*F^{-3*\pi^{-2}}*L1r \\
& + 31/18432*\ln(8)*F^{-3*\sin x^2*\pi^{-4}} - 41/18*\ln(8)*F^{-3*\sin x^2*\pi^{-4}} - 2*\ln(8)*F^{-3*\sin x^2*\pi^{-2}}*L8r \\
& - 16/3*\ln(8)*F^{-3*\sin x^2*\pi^{-2}}*L7r - 1/2*\ln(8)*F^{-3*\sin x^2*\pi^{-2}}*L6r + 17/72*\ln(8)*F^{-3*\sin x^2*\pi^{-2}}*L5r \\
& + 11/72*\ln(8)*F^{-3*\sin x^2*\pi^{-2}}*L4r + 17/72*\ln(8)*F^{-3*\sin x^2*\pi^{-2}}*L3r + 1/9*\ln(8)*F^{-3*\sin x^2*\pi^{-2}}*L2r
\end{aligned}$$

$$\begin{aligned}
& + 4/9*\ln(8)*F^{-3}*\sinx^2*\pi^{-2}*L1r + 16/9*\ln(8)*F^{-3}*\sinx^4*\pi^{-2}*L8r + \\
& 16/3*\ln(8)*F^{-3}*\sinx^4*\pi^{-2}*L7r + 71/27648*\ln(8)^2*F^{-3}*\sinx^2*\pi^{-4} \\
& + 1/18432*\ln(8)^2*F^{-3}*\sinx^4*\pi^{-4} - 1/864*\ln(8)^2*F^{-3}*\sinx^6*\pi^{-4} + \\
& 1/2*Hb(1,3,3,1,plext.plext)*F^{-3} - 5/6*Hb(1,3,3,1,plext.plext)*F^{-3}*\sinx^2 \\
& + 13/36*Hb(1,3,3,1,plext.plext)*F^{-3}*\sinx^4 + 13/18*Hb(1,3,8,1,plext.plext)*F^{-3} \\
& *sinx^2 - 13/18*Hb(1,3,8,1,plext.plext)*F^{-3}*\sinx^4 + 1/36*Hb(1,8,8,1,plext.plext)*F^{-3} \\
& + 1/9*Hb(1,8,8,1,plext.plext)*F^{-3}*\sinx^2 + 13/36*Hb(1,8,8,1,plext.plext)*F^{-3} \\
& *sinx^4 + 1/4*Hb(2,1,1,1,plext.plext)*F^{-3} - 5/16*Hb(3,4,7,1,plext.plext)*F^{-3} \\
& + 1/3*Hb(3,4,7,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 1/3*Hb(3,4,7,1,plext.plext)*F^{-3} \\
& *sinx^2 + 1/24*Hb(4,3,7,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 5/12*Hb(4,7,8,1,plext.plext)*F^{-3} \\
& - 1/24*Hb(4,7,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 2/3*Hb(4,7,8,1,plext.plext)*F^{-3} \\
& *sinx^2 - 1/24*Hb(7,3,4,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 1/24*Hb(7,4,8,1,plext.plext)*F^{-3} \\
& *sinx*\cosx*\sqrt{3} - 1/16*Hb(8,4,7,1,plext.plext)*F^{-3} + 3/4*H21b(1,3,3,1,plext.plext)*F^{-3} \\
& - 3/2*H21b(1,3,3,1,plext.plext)*F^{-3}*\sinx^2 + 3/4*H21b(1,3,3,1,plext.plext)*F^{-3} \\
& *sinx^4 + 3/2*H21b(1,3,8,1,plext.plext)*F^{-3}*\sinx^2 - 3/2*H21b(1,3,8,1,plext.plext)*F^{-3} \\
& *sinx^4 + 3/4*H21b(1,8,8,1,plext.plext)*F^{-3}*\sinx^4 + 3/4*H21b(2,1,1,1,plext.plext)*F^{-3} \\
& - 3/16*H21b(3,4,7,1,plext.plext)*F^{-3} + 3/4*H21b(3,4,7,1,plext.plext)*F^{-3} \\
& *sinx^2 + 3/8*H21b(4,3,7,1,plext.plext)*F^{-3} + 3/8*H21b(4,3,7,1,plext.plext)*F^{-3} \\
& *sinx*\cosx*\sqrt{3} - 3/8*H21b(4,3,7,1,plext.plext)*F^{-3}*\sinx^2 - 3/8*H21b(4,7,8,1,plext.plext)*F^{-3} \\
& *sinx*\cosx*\sqrt{3} + 3/8*H21b(4,7,8,1,plext.plext)*F^{-3}*\sinx^2 + 3/8*H21b(5,1,4,1,plext.plext)*F^{-3} \\
& + 3/8*H21b(6,1,7,1,plext.plext)*F^{-3} + 3/8*H21b(7,3,4,1,plext.plext)*F^{-3} \\
& - 3/8*H21b(7,3,4,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 3/8*H21b(7,3,4,1,plext.plext)*F^{-3} \\
& *sinx^2 + 3/8*H21b(7,4,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 3/8*H21b(7,4,8,1,plext.plext)*F^{-3} \\
& *sinx^2 - 9/16*H21b(8,4,7,1,plext.plext)*F^{-3} - 3/4*H21b(8,4,7,1,plext.plext)*F^{-3} \\
& *sinx^2 - HH1b(1,3,3,1,plext.plext)*F^{-3} + 5/3*HH1b(1,3,3,1,plext.plext)*F^{-3} \\
& *sinx^2 - 2/3*HH1b(1,3,3,1,plext.plext)*F^{-3}*\sinx^4 - 4/3*HH1b(1,3,8,1,plext.plext)*F^{-3} \\
& *sinx^2 + 4/3*HH1b(1,3,8,1,plext.plext)*F^{-3}*\sinx^4 - 1/3*HH1b(1,8,8,1,plext.plext)*F^{-3} \\
& *sinx^2 - 2/3*HH1b(1,8,8,1,plext.plext)*F^{-3}*\sinx^4 + 1/2*HH1b(3,4,7,1,plext.plext)*F^{-3} \\
& - 1/3*HH1b(3,4,7,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - HH1b(3,4,7,1,plext.plext)*F^{-3} \\
& *sinx^2 - 2/3*HH1b(4,3,7,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 1/2*HH1b(4,7,8,1,plext.plext)*F^{-3} \\
& + 1/3*HH1b(4,7,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - HH1b(4,7,8,1,plext.plext)*F^{-3} \\
& *sinx^2 + 1/2*HH1b(7,4,8,1,plext.plext)*F^{-3} - 1/3*HH1b(7,4,8,1,plext.plext)*F^{-3} \\
& *sinx*\cosx*\sqrt{3} - HH1b(7,4,8,1,plext.plext)*F^{-3}*\sinx^2) \\
& + mpp2^2*mkp2 * (- 71/184320/(mass(1))*\ln(1)^2*F^{-3}*\pi^{-4} + 161/184320/(mass(2))*\ln(1)^2*F^{-3} \\
& *pi^{-4} + 1/2048/(mass(3))*\ln(3)^2*F^{-3}*\pi^{-4} - 1/3072/(mass(3))*\ln(3)^2*F^{-3} \\
& *sinx^2*\pi^{-4} + 1/6144/(mass(8))*\ln(8)^2*F^{-3}*\pi^{-4} + 1/3072/(mass(8))*\ln(8)^2*F^{-3} \\
& *sinx^2*\pi^{-4}) \\
& + mpp2^3 * (+ 257/184320/(mass(1))*\ln(1)^2*F^{-3}*\pi^{-4} + 103/184320/(mass(2))*\ln(1)^2*F^{-3} \\
& *pi^{-4} + 7/8192/(mass(3))*\ln(3)^2*F^{-3}*\pi^{-4} - 1/1152/(mass(3))*\ln(3)^2*F^{-3} \\
& *sinx^2*\pi^{-4} - 1/73728/(mass(8))*\ln(8)^2*F^{-3}*\pi^{-4} + 1/1152/(mass(8))*\ln(8)^2*F^{-3} \\
& *sinx^2*\pi^{-4}) \\
& + mud * (- 1/24*Hb(3,4,6,qext.qext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 1/8*Hb(3,4,6,qext.qext)*F^{-3} \\
& *sinx^2 + 1/24*Hb(3,4,7,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 1/8*Hb(3,4,7,plext.plext)*F^{-3} \\
& *sinx^2 - 1/24*Hb(3,5,7,qext.qext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 1/8*Hb(3,5,7,qext.qext)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^2 + 1/32^*\text{Hb}(4,3,6,\text{qext.qext})^*F^{-3} - 1/48^*\text{Hb}(4,3,6,\text{qext.qext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 1/16^*\text{Hb}(4,3,6,\text{qext.qext})^*F^{-3}*\sin x^2 - 1/32^*\text{Hb}(4,3,7,\text{plext.plext})^*F^{-} \\
& 3 + 1/48^*\text{Hb}(4,3,7,\text{plext.plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/16^*\text{Hb}(4,3,7,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^2 - 1/32^*\text{Hb}(4,6,8,\text{qext.qext})^*F^{-3} + 1/48^*\text{Hb}(4,6,8,\text{qext.qext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/16^*\text{Hb}(4,6,8,\text{qext.qext})^*F^{-3}*\sin x^2 + 1/32^*\text{Hb}(4,7,8,\text{plext.plext})^*F^{-} \\
& 3 - 1/48^*\text{Hb}(4,7,8,\text{plext.plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/16^*\text{Hb}(4,7,8,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^2 + 1/32^*\text{Hb}(5,3,7,\text{qext.qext})^*F^{-3} - 1/48^*\text{Hb}(5,3,7,\text{qext.qext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 1/16^*\text{Hb}(5,3,7,\text{qext.qext})^*F^{-3}*\sin x^2 - 1/32^*\text{Hb}(5,7,8,\text{qext.qext})^*F^{-} \\
& 3 + 1/48^*\text{Hb}(5,7,8,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/16^*\text{Hb}(5,7,8,\text{qext.qext})^*F^{-} \\
& 3^*\sin x^2 - 1/8^*\text{Hb}(6,1,7,\text{plext.plext})^*F^{-3} + 1/8^*\text{Hb}(6,2,7,\text{qext.qext})^*F^{-3} + \\
& 3/32^*\text{Hb}(6,3,4,\text{qext.qext})^*F^{-3} - 5/48^*\text{Hb}(6,3,4,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} \\
& - 1/16^*\text{Hb}(6,3,4,\text{qext.qext})^*F^{-3}*\sin x^2 + 1/32^*\text{Hb}(6,4,8,\text{qext.qext})^*F^{-3} + \\
& 5/48^*\text{Hb}(6,4,8,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/16^*\text{Hb}(6,4,8,\text{qext.qext})^*F^{-} \\
& 3^*\sin x^2 + 1/8^*\text{Hb}(7,2,6,\text{qext.qext})^*F^{-3} - 3/32^*\text{Hb}(7,3,4,\text{plext.plext})^*F^{-3} + \\
& 5/48^*\text{Hb}(7,3,4,\text{plext.plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/16^*\text{Hb}(7,3,4,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^2 + 3/32^*\text{Hb}(7,3,5,\text{qext.qext})^*F^{-3} - 5/48^*\text{Hb}(7,3,5,\text{qext.qext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 1/16^*\text{Hb}(7,3,5,\text{qext.qext})^*F^{-3}*\sin x^2 - 1/32^*\text{Hb}(7,4,8,\text{plext.plext})^*F^{-} \\
& 3 - 5/48^*\text{Hb}(7,4,8,\text{plext.plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/16^*\text{Hb}(7,4,8,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^2 + 1/32^*\text{Hb}(7,5,8,\text{qext.qext})^*F^{-3} + 5/48^*\text{Hb}(7,5,8,\text{qext.qext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/16^*\text{Hb}(7,5,8,\text{qext.qext})^*F^{-3}*\sin x^2 + 1/8^*\text{Hb}(8,4,6,\text{qext.qext})^*F^{-} \\
& 3 + 1/24^*\text{Hb}(8,4,6,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/8^*\text{Hb}(8,4,6,\text{qext.qext})^*F^{-} \\
& 3^*\sin x^2 - 1/8^*\text{Hb}(8,4,7,\text{plext.plext})^*F^{-3} - 1/24^*\text{Hb}(8,4,7,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/8^*\text{Hb}(8,4,7,\text{plext.plext})^*F^{-3}*\sin x^2 + 1/8^*\text{Hb}(8,5,7,\text{qext.qext})^*F^{-} \\
& 3 + 1/24^*\text{Hb}(8,5,7,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/8^*\text{Hb}(8,5,7,\text{qext.qext})^*F^{-} \\
& 3^*\sin x^2)
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}^*\text{mkp2} * (- 15/8192^*F^{-3}*\pi^{-4} - 11/18432^*F^{-3}*\pi^{-2} + 1/2^*F^{-} \\
& 3^*\pi^{-2}*\text{L8r} + F^{-3}*\pi^{-2}*\text{L6r} - 1/4^*F^{-3}*\pi^{-2}*\text{L5r} - 1/2^*F^{-3}*\pi^{-2}*\text{L4r} \\
& + 43/432^*F^{-3}*\pi^{-2}*\text{L3r} + 13/36^*F^{-3}*\pi^{-2}*\text{L2r} + 32^*F^{-3}*\text{L4r}^2 - \\
& 32^*F^{-3}*\text{CC16} + 1/4608^*\ln(3)^*F^{-3}*\sin x^*\cos x^*\sqrt{3}*\pi^{-4} + 1/3^*\ln(3)^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3}*\pi^{-2}*\text{L8r} + 4/3^*\ln(3)^*F^{-3}*\sin x^*\cos x^*\sqrt{3}*\pi^{-2}*\text{L7r} - \\
& 1/3^*\ln(3)^*F^{-3}*\sin x^*\cos x^*\sqrt{3}*\pi^{-2}*\text{L6r} + 1/18^*\ln(3)^*F^{-3}*\sin x^*\cos x^*\sqrt{3}*\pi^{-} \\
& 2^*\text{L5r} + 1/36^*\ln(3)^*F^{-3}*\sin x^*\cos x^*\sqrt{3}*\pi^{-2}*\text{L4r} + 5/36^*\ln(3)^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3}*\pi^{-2}*\text{L3r} + 1/9^*\ln(3)^*F^{-3}*\sin x^*\cos x^*\sqrt{3}*\pi^{-2}*\text{L2r} + \\
& 4/9^*\ln(3)^*F^{-3}*\sin x^*\cos x^*\sqrt{3}*\pi^{-2}*\text{L1r} + 1/1152^*\ln(3)^*F^{-3}*\sin x^2*\pi^{-4} \\
& - 16/9^*\ln(3)^*F^{-3}*\sin x^2*\pi^{-2}*\text{L8r} - 16/3^*\ln(3)^*F^{-3}*\sin x^2*\pi^{-2}*\text{L7r} \\
& + 4/9^*\ln(3)^*F^{-3}*\sin x^2*\pi^{-2}*\text{L4r} - 2/9^*\ln(3)^*F^{-3}*\sin x^2*\pi^{-2}*\text{L3r} \\
& - 2/9^*\ln(3)^*F^{-3}*\sin x^2*\pi^{-2}*\text{L2r} - 8/9^*\ln(3)^*F^{-3}*\sin x^2*\pi^{-2}*\text{L1r} + \\
& 16/9^*\ln(3)^*F^{-3}*\sin x^4*\pi^{-2}*\text{L8r} + 16/3^*\ln(3)^*F^{-3}*\sin x^4*\pi^{-2}*\text{L7r} \\
& + 1/6912^*\ln(3)^2^*F^{-3}*\sin x^*\cos x^*\sqrt{3}*\pi^{-4} + 19/13824^*\ln(3)^2^*F^{-} \\
& 3^*\sin x^2*\pi^{-4} + 13/13824^*\ln(3)^2^*F^{-3}*\sin x^4*\pi^{-4} - 1/432^*\ln(3)^2^*F^{-} \\
& 3^*\sin x^6*\pi^{-4} - 5/12288^*\ln(3)^*\ln(4)^*F^{-3}*\pi^{-4} - 1/18432^*\ln(3)^*\ln(4)^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3}*\pi^{-4} + 5/2304^*\ln(3)^*\ln(4)^*F^{-3}*\sin x^2*\pi^{-4} + 1/864^*\ln(3)^*\ln(4)^*F^{-} \\
& 3^*\sin x^3*\cos x^*\sqrt{3}*\pi^{-4} - 1/576^*\ln(3)^*\ln(4)^*F^{-3}*\sin x^4*\pi^{-4} + 5/12288^*\ln(3)^*\ln(6)^*F^{-} \\
& 3^*\pi^{-4} - 37/18432^*\ln(3)^*\ln(6)^*F^{-3}*\sin x^*\cos x^*\sqrt{3}*\pi^{-4} + 5/2304^*\ln(3)^*\ln(6)^*F^{-} \\
& 3^*\sin x^2*\pi^{-4} - 1/864^*\ln(3)^*\ln(6)^*F^{-3}*\sin x^3*\cos x^*\sqrt{3}*\pi^{-4} - 1/576^*\ln(3)^*\ln(6)^*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^4*\pi^4 - 1/6912*\ln(3)*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^4 - 1/2304*\ln(3)*\ln(8)*F^{-3}*\sin x^2*\pi^4 - 29/6912*\ln(3)*\ln(8)*F^{-3}*\sin x^4*\pi^4 + 1/216*\ln(3)*\ln(8)*F^{-3}*\sin x^6*\pi^4 - 1/1024*\ln(4)*F^{-3}*\pi^4 + 1/4*\ln(4)*F^{-3}*\pi^2*L6r - 3/16*\ln(4)*F^{-3}*\pi^2*L4r + 1/2304*\ln(4)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^4 - 1/4096*\ln(4)*\ln(6)*F^{-3}*\pi^4 - 7/36864*\ln(4)*\ln(8)*F^{-3}*\pi^4 + 1/18432*\ln(4)*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^4 - 5/2304*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\pi^4 - 1/864*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^4 + 1/576*\ln(4)*\ln(8)*F^{-3}*\sin x^4*\pi^4 - 1/1024*\ln(6)*F^{-3}*\pi^4 + 1/2*\ln(6)*F^{-3}*\pi^2*L8r + 3/4*\ln(6)*F^{-3}*\pi^2*L6r - 1/4*\ln(6)*F^{-3}*\pi^2*L5r + 7/16*\ln(6)*F^{-3}*\pi^2*L4r - 5/8*\ln(6)*F^{-3}*\pi^2*L3r - 1/2*\ln(6)*F^{-3}*\pi^2*L2r - 2*\ln(6)*F^{-3}*\pi^2*L1r - 1/2304*\ln(6)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^4 + 1/4096*\ln(6)*F^{-3}*\pi^4 + 13/12288*\ln(6)*\ln(8)*F^{-3}*\pi^4 + 37/18432*\ln(6)*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^4 - 5/2304*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\pi^4 + 1/864*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^4 + 1/576*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\pi^4 + 1/1152*\ln(8)*F^{-3}*\pi^4 + 4/9*\ln(8)*F^{-3}*\pi^2*L4r - 2/9*\ln(8)*F^{-3}*\pi^2*L3r - 2/9*\ln(8)*F^{-3}*\pi^2*L2r - 8/9*\ln(8)*F^{-3}*\pi^2*L1r - 1/4608*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^4 - 1/3*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^2*L8r - 4/3*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^2*L7r + 1/3*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^2*L6r - 1/18*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^2*L5r - 1/36*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^2*L4r - 5/36*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^2*L3r - 1/9*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^2*L2r - 4/9*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^2*L1r - 1/1152*\ln(8)*F^{-3}*\sin x^2*\pi^4 + 16/9*\ln(8)*F^{-3}*\sin x^2*\pi^2*L8r + 16/3*\ln(8)*F^{-3}*\sin x^2*\pi^2*L7r - 4/9*\ln(8)*F^{-3}*\sin x^2*\pi^2*L4r + 2/9*\ln(8)*F^{-3}*\sin x^2*\pi^2*L3r + 2/9*\ln(8)*F^{-3}*\sin x^2*\pi^2*L2r + 8/9*\ln(8)*F^{-3}*\sin x^2*\pi^2*L1r - 16/9*\ln(8)*F^{-3}*\sin x^4*\pi^2*L8r - 16/3*\ln(8)*F^{-3}*\sin x^4*\pi^2*L7r - 13/13824*\ln(8)^2*F^{-3}*\sin x^2*\pi^4 + 5/1536*\ln(8)^2*F^{-3}*\sin x^4*\pi^4 - 1/432*\ln(8)^2*F^{-3}*\sin x^6*\pi^4) \\
& + \text{mud}*\text{mkp}2^2 * (+ 5/6912/(\text{mass}(3))^*\ln(3)^2*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^4 - 1/768/(\text{mass}(3))^*\ln(3)^2*F^{-3}*\sin x^2*\pi^4 - 1/12288/(\text{mass}(4))^*\ln(4)^2*F^{-3}*\pi^4 - 5/12288/(\text{mass}(5))^*\ln(4)^2*F^{-3}*\pi^4 - 65/24576/(\text{mass}(6))^*\ln(6)^2*F^{-3}*\pi^4 - 31/24576/(\text{mass}(7))^*\ln(6)^2*F^{-3}*\pi^4 - 1/768/(\text{mass}(8))^*\ln(8)^2*F^{-3}*\pi^4 - 5/6912/(\text{mass}(8))^*\ln(8)^2*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^4 + 1/768/(\text{mass}(8))^*\ln(8)^2*F^{-3}*\sin x^2*\pi^4) \\
& + \text{mud}*\text{mpp}2 * (+ 5/16384*F^{-3}*\pi^4 - 1/73728*F^{-3}*\pi^2 + 5/4*F^{-3}*\pi^2*L6r - 5/8*F^{-3}*\pi^2*L4r - 1/108*F^{-3}*\pi^2*L3r - 1/36*F^{-3}*\pi^2*L2r + 16*F^{-3}*\pi^2*L5r + 16*F^{-3}*\pi^2*L4r^2 + 16*F^{-3}*\pi^2*CC16 - 8*F^{-3}*\pi^2*CC15 - 1/2048*\ln(1)*F^{-3}*\pi^4 + 1/2*\ln(1)*F^{-3}*\pi^2*L6r - 3/8*\ln(1)*F^{-3}*\pi^2*L4r - 1/2304*\ln(1)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^4 - 7/9216*\ln(1)*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^4 - 1/1536*\ln(1)*\ln(3)*F^{-3}*\sin x^2*\pi^4 + 1/2304*\ln(1)*\ln(3)*F^{-3}*\sin x^4*\pi^4 - 1/4608*\ln(1)*\ln(8)*F^{-3}*\pi^4 + 7/9216*\ln(1)*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^4 + 1/1536*\ln(1)*\ln(8)*F^{-3}*\sin x^2*\pi^4 - 1/2304*\ln(1)*\ln(8)*F^{-3}*\sin x^4*\pi^4 - 1/2048*\ln(3)*F^{-3}*\pi^4 + 1/2*\ln(3)*F^{-3}*\pi^2*L6r - 3/8*\ln(3)*F^{-3}*\pi^2*L4r + 7/9216*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^4 - 2/3*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^2*L8r - 4/3*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^2*L7r - 1/6*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^2*L6r - 1/3*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^2*L5r - 1/6*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^2*L4r - 1/3*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^2*L3r - 1/6*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^2*L2r - 1/3*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^2*L1r - 1/6*\ln(3)*F^{-3}*\sin x^2*\pi^4 + 1/3*\ln(3)*F^{-3}*\sin x^4*\pi^4 - 1/6*\ln(3)*F^{-3}*\sin x^6*\pi^4) \\
\end{aligned}$$

$$\begin{aligned}
& 2^*L6r + 7/72*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L5r + 1/72*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L4r + 1/9*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L3r + \\
& 1/18*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L2r + 2/9*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L1r - 1/18432*\ln(3)*F^{-3}*\sin x^2*\pi^{-4} + 16/9*\ln(3)*F^{-3}*\sin x^2*\pi^{-2}*L8r \\
& + 16/3*\ln(3)*F^{-3}*\sin x^2*\pi^{-2}*L7r - 1/2*\ln(3)*F^{-3}*\sin x^2*\pi^{-2}*L6r + 1/36*\ln(3)*F^{-3}*\sin x^2*\pi^{-2}*L5r + 19/72*\ln(3)*F^{-3}*\sin x^2*\pi^{-2}*L4r \\
& + 1/18*\ln(3)*F^{-3}*\sin x^2*\pi^{-2}*L3r + 1/18*\ln(3)*F^{-3}*\sin x^2*\pi^{-2}*L2r + 2/9*\ln(3)*F^{-3}*\sin x^2*\pi^{-2}*L1r - 16/9*\ln(3)*F^{-3}*\sin x^4*\pi^{-2}*L8r - \\
& 16/3*\ln(3)*F^{-3}*\sin x^4*\pi^{-2}*L7r + 55/55296*\ln(3)^2*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 29/27648*\ln(3)^2*F^{-3}*\sin x^2*\pi^{-4} + 13/27648*\ln(3)^2*F^{-3}*\sin x^4*\pi^{-4} \\
& + 1/1728*\ln(3)^2*F^{-3}*\sin x^6*\pi^{-4} + 1/6144*\ln(3)*\ln(4)*F^{-3}*\pi^{-4} - 1/18432*\ln(3)*\ln(4)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 29/18432*\ln(3)*\ln(4)*F^{-3}*\sin x^2*\pi^{-4} \\
& - 1/13824*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} + 7/4608*\ln(3)*\ln(4)*F^{-3}*\sin x^4*\pi^{-4} - 1/6144*\ln(3)*\ln(6)*F^{-3}*\pi^{-4} + 29/18432*\ln(3)*\ln(6)*F^{-3}*\sin x^2*\pi^{-4} \\
& + 1/13824*\ln(3)*\ln(6)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} + 7/4608*\ln(3)*\ln(6)*F^{-3}*\sin x^4*\pi^{-4} - 1/4608*\ln(3)*\ln(8)*F^{-3}*\pi^{-4} - 1/13824*\ln(3)*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} \\
& - 1/4608*\ln(3)*\ln(8)*F^{-3}*\sin x^2*\pi^{-4} + 19/13824*\ln(3)*\ln(8)*F^{-3}*\sin x^4*\pi^{-4} - 1/864*\ln(3)*\ln(8)*F^{-3}*\sin x^6*\pi^{-4} - 1/6144*\ln(4)*\ln(8)*F^{-3}*\pi^{-4} \\
& + 1/18432*\ln(4)*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 29/18432*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\pi^{-4} + 1/13824*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} - \\
& 7/4608*\ln(4)*\ln(8)*F^{-3}*\sin x^4*\pi^{-4} - 1/4096*\ln(6)*F^{-3}*\pi^{-4} + 1/4*\ln(6)*F^{-3}*\pi^{-2}*L6r + 1/16*\ln(6)*F^{-3}*\pi^{-2}*L5r - 3/16*\ln(6)*F^{-3}*\pi^{-2}*L4r \\
& + 1/2304*\ln(6)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 1/18432*\ln(6)*\ln(8)*F^{-3}*\pi^{-4} + 29/18432*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\pi^{-4} - 1/13824*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} - 7/4608*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\pi^{-4} - 5/9216*\ln(8)*F^{-3}*\pi^{-4} \\
& + 1/36*\ln(8)*F^{-3}*\pi^{-2}*L5r - 1/9*\ln(8)*F^{-3}*\pi^{-2}*L4r + 1/18*\ln(8)*F^{-3}*\pi^{-2}*L3r + 1/18*\ln(8)*F^{-3}*\pi^{-2}*L2r + 2/9*\ln(8)*F^{-3}*\pi^{-2}*L1r - 7/9216*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 2/3*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L8r + 4/3*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L7r + 1/6*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L6r - 7/72*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L5r - 1/72*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L4r - 1/9*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L3r - 1/18*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L2r - 2/9*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L1r + 1/18432*\ln(8)*F^{-3}*\sin x^2*\pi^{-4} - 16/9*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L8r - 16/3*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L7r + 1/2*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L6r - 1/36*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L5r - 19/72*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L4r - 1/18*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L3r - 1/18*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L2r - 2/9*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L1r + 16/9*\ln(8)*F^{-3}*\sin x^4*\pi^{-2}*L8r + 16/3*\ln(8)*F^{-3}*\sin x^4*\pi^{-2}*L7r - 17/18432*\ln(8)^2*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 35/27648*\ln(8)^2*F^{-3}*\sin x^2*\pi^{-4} - 17/9216*\ln(8)^2*F^{-3}*\sin x^4*\pi^{-4} + 1/1728*\ln(8)^2*F^{-3}*\sin x^6*\pi^{-4} + 1/24*\text{Hb}(3,4,7,1,\text{plext.plext})*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/8*\text{Hb}(3,4,7,1,\text{plext.plext})*F^{-3}*\sin x^2 - 1/32*\text{Hb}(4,3,7,1,\text{plext.plext})*F^{-3} + 1/48*\text{Hb}(4,3,7,1,\text{plext.plext})*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/16*\text{Hb}(4,3,7,1,\text{plext.plext})*F^{-3}*\sin x^2 + 1/32*\text{Hb}(4,7,8,1,\text{plext.plext})*F^{-3} - 1/48*\text{Hb}(4,7,8,1,\text{plext.plext})*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/16*\text{Hb}(4,7,8,1,\text{plext.plext})*F^{-3}*\sin x^2 - 1/8*\text{Hb}(6,1,7,1,\text{plext.plext})*F^{-3} - 3/32*\text{Hb}(7,3,4,1,\text{plext.plext})*F^{-3} + 5/48*\text{Hb}(7,3,4,1,\text{plext.plext})*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/16^*\text{Hb}(7,3,4,1,\text{p1ext.p1ext})^*F^{-3^*}\sin x^2 - 1/32^*\text{Hb}(7,4,8,1,\text{p1ext.p1ext})^*F^{-3^*} \\
& - 5/48^*\text{Hb}(7,4,8,1,\text{p1ext.p1ext})^*F^{-3^*}\sin x^*\cos x^*\sqrt{3} - 1/16^*\text{Hb}(7,4,8,1,\text{p1ext.p1ext})^*F^{-3^*} \\
& 3^*\sin x^2 - 1/8^*\text{Hb}(8,4,7,1,\text{p1ext.p1ext})^*F^{-3^*} - 1/24^*\text{Hb}(8,4,7,1,\text{p1ext.p1ext})^*F^{-3^*} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/8^*\text{Hb}(8,4,7,1,\text{p1ext.p1ext})^*F^{-3^*}\sin x^2) \\
& + \text{mud}^*\text{mpp2}^*\text{mkp2}^* (+ 5/27648/(\text{mass}(3))^*\ln(3)^2^*F^{-3^*}\sin x^*\cos x^*\sqrt{3}^*\pi^4 - \\
& 4 + 1/1536/(\text{mass}(3))^*\ln(3)^2^*F^{-3^*}\sin x^2^*\pi^4 + 1/3072/(\text{mass}(6))^*\ln(6)^2^*F^{-3^*} \\
& 3^*\pi^4 + 1/6144/(\text{mass}(7))^*\ln(6)^2^*F^{-3^*}\pi^4 + 1/1536/(\text{mass}(8))^*\ln(8)^2^*F^{-3^*} \\
& 3^*\pi^4 - 5/27648/(\text{mass}(8))^*\ln(8)^2^*F^{-3^*}\sin x^*\cos x^*\sqrt{3}^*\pi^4 - 1/1536/(\text{mass}(8))^*\ln(8)^2^*F^{-3^*} \\
& 3^*\sin x^2^*\pi^4) \\
& + \text{mud}^*\text{mpp2}^2^* (+ 71/368640/(\text{mass}(1))^*\ln(1)^2^*F^{-3^*}\pi^4 - 161/368640/(\text{mass}(2))^*\ln(1)^2^*F^{-3^*} \\
& 3^*\pi^4 - 1/4096/(\text{mass}(3))^*\ln(3)^2^*F^{-3^*}\pi^4 + 31/55296/(\text{mass}(3))^*\ln(3)^2^*F^{-3^*} \\
& 3^*\sin x^*\cos x^*\sqrt{3}^*\pi^4 + 1/6144/(\text{mass}(3))^*\ln(3)^2^*F^{-3^*}\sin x^2^*\pi^4 - \\
& 1/12288/(\text{mass}(8))^*\ln(8)^2^*F^{-3^*}\pi^4 - 31/55296/(\text{mass}(8))^*\ln(8)^2^*F^{-3^*} \\
& 3^*\sin x^*\cos x^*\sqrt{3}^*\pi^4 - 1/6144/(\text{mass}(8))^*\ln(8)^2^*F^{-3^*}\sin x^2^*\pi^4) \\
& + \text{mud}^2^* (+ 13/12288^*F^{-3^*}\pi^4 + 1/4096^*F^{-3^*}\pi^2 - 3/4^*F^{-3^*}\pi^2 - \\
& 2^*\text{L8r} - F^{-3^*}\pi^2^*\text{L7r} - 1/4^*F^{-3^*}\pi^2^*\text{L6r} + 5/24^*F^{-3^*}\pi^2^*\text{L5r} \\
& + 1/8^*F^{-3^*}\pi^2^*\text{L4r} - 41/864^*F^{-3^*}\pi^2^*\text{L3r} - 7/36^*F^{-3^*}\pi^2^*\text{L2r} \\
& - 8^*F^{-3^*}\text{L4r}^2 - 8^*F^{-3^*}\text{CC17} + 24^*F^{-3^*}\text{CC16} + 8^*F^{-3^*}\text{CC14} + \\
& 1/12288^*\ln(3)^*F^{-3^*}\pi^4 - 1/3^*\ln(3)^*F^{-3^*}\pi^2^*\text{L8r} - 3/4^*\ln(3)^*F^{-3^*} \\
& 3^*\pi^2^*\text{L7r} + 1/24^*\ln(3)^*F^{-3^*}\pi^2^*\text{L5r} - 1/12^*\ln(3)^*F^{-3^*}\pi^2^*\text{L4r} + \\
& 1/16^*\ln(3)^*F^{-3^*}\pi^2^*\text{L3r} + 1/24^*\ln(3)^*F^{-3^*}\pi^2^*\text{L2r} + 1/6^*\ln(3)^*F^{-3^*} \\
& 3^*\pi^2^*\text{L1r} - 1/9216^*\ln(3)^*F^{-3^*}\sin x^*\cos x^*\sqrt{3}^*\pi^4 - 1/6^*\ln(3)^*F^{-3^*} \\
& 3^*\sin x^*\cos x^*\sqrt{3}^*\pi^2^*\text{L8r} - 2/3^*\ln(3)^*F^{-3^*}\sin x^*\cos x^*\sqrt{3}^*\pi^2^*\text{L7r} + \\
& 1/6^*\ln(3)^*F^{-3^*}\sin x^*\cos x^*\sqrt{3}^*\pi^2^*\text{L6r} - 1/36^*\ln(3)^*F^{-3^*}\sin x^*\cos x^*\sqrt{3}^*\pi^2^* \\
& 2^*\text{L5r} - 1/72^*\ln(3)^*F^{-3^*}\sin x^*\cos x^*\sqrt{3}^*\pi^2^*\text{L4r} - 5/72^*\ln(3)^*F^{-3^*} \\
& 3^*\sin x^*\cos x^*\sqrt{3}^*\pi^2^*\text{L3r} - 1/18^*\ln(3)^*F^{-3^*}\sin x^*\cos x^*\sqrt{3}^*\pi^2^*\text{L2r} \\
& - 2/9^*\ln(3)^*F^{-3^*}\sin x^*\cos x^*\sqrt{3}^*\pi^2^*\text{L1r} - 1/4608^*\ln(3)^*F^{-3^*}\sin x^2^*\pi^4 - \\
& 4 + 4/9^*\ln(3)^*F^{-3^*}\sin x^2^*\pi^2^*\text{L8r} + 4/3^*\ln(3)^*F^{-3^*}\sin x^2^*\pi^2^*\text{L7r} \\
& - 1/9^*\ln(3)^*F^{-3^*}\sin x^2^*\pi^2^*\text{L4r} + 1/18^*\ln(3)^*F^{-3^*}\sin x^2^*\pi^2^*\text{L3r} \\
& + 1/18^*\ln(3)^*F^{-3^*}\sin x^2^*\pi^2^*\text{L2r} + 2/9^*\ln(3)^*F^{-3^*}\sin x^2^*\pi^2^*\text{L1r} \\
& - 4/9^*\ln(3)^*F^{-3^*}\sin x^4^*\pi^2^*\text{L8r} - 4/3^*\ln(3)^*F^{-3^*}\sin x^4^*\pi^2^*\text{L7r} + \\
& 3/8192^*\ln(3)^2^*F^{-3^*}\pi^4 - 1/13824^*\ln(3)^2^*F^{-3^*}\sin x^*\cos x^*\sqrt{3}^*\pi^4 - \\
& 19/55296^*\ln(3)^2^*F^{-3^*}\sin x^2^*\pi^4 - 13/55296^*\ln(3)^2^*F^{-3^*}\sin x^4^*\pi^4 - \\
& + 1/1728^*\ln(3)^2^*F^{-3^*}\sin x^6^*\pi^4 + 1/12288^*\ln(3)^*\ln(4)^*F^{-3^*}\pi^4 + \\
& 1/9216^*\ln(3)^*\ln(4)^*F^{-3^*}\sin x^*\cos x^*\sqrt{3}^*\pi^4 - 5/9216^*\ln(3)^*\ln(4)^*F^{-3^*} \\
& 3^*\sin x^2^*\pi^4 - 1/3456^*\ln(3)^*\ln(4)^*F^{-3^*}\sin x^3^*\cos x^*\sqrt{3}^*\pi^4 + \\
& 1/2304^*\ln(3)^*\ln(4)^*F^{-3^*}\sin x^4^*\pi^4 - 1/3072^*\ln(3)^*\ln(6)^*F^{-3^*}\pi^4 + \\
& 17/18432^*\ln(3)^*\ln(6)^*F^{-3^*}\sin x^*\cos x^*\sqrt{3}^*\pi^4 - 5/9216^*\ln(3)^*\ln(6)^*F^{-3^*} \\
& 3^*\sin x^2^*\pi^4 + 1/3456^*\ln(3)^*\ln(6)^*F^{-3^*}\sin x^3^*\cos x^*\sqrt{3}^*\pi^4 + \\
& 1/2304^*\ln(3)^*\ln(6)^*F^{-3^*}\sin x^4^*\pi^4 + 1/36864^*\ln(3)^*\ln(8)^*F^{-3^*}\pi^4 - \\
& + 1/13824^*\ln(3)^*\ln(8)^*F^{-3^*}\sin x^*\cos x^*\sqrt{3}^*\pi^4 + 1/9216^*\ln(3)^*\ln(8)^*F^{-3^*} \\
& 3^*\sin x^2^*\pi^4 + 29/27648^*\ln(3)^*\ln(8)^*F^{-3^*}\sin x^4^*\pi^4 - 1/864^*\ln(3)^*\ln(8)^*F^{-3^*} \\
& 3^*\sin x^6^*\pi^4 - 1/12288^*\ln(4)^*\ln(8)^*F^{-3^*}\pi^4 - 1/9216^*\ln(4)^*\ln(8)^*F^{-3^*} \\
& 3^*\sin x^*\cos x^*\sqrt{3}^*\pi^4 + 5/9216^*\ln(4)^*\ln(8)^*F^{-3^*}\sin x^2^*\pi^4 + 1/3456^*\ln(4)^*\ln(8)^*F^{-3^*}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^{\wedge} 3^* \cos x^* \sqrt{3}^* \pi^{\wedge} -4 - 1/2304^* \ln(4)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \pi^{\wedge} -4 - 1/4^* \ln(6)^* F^{\wedge} - \\
& 3^* \pi^{\wedge} -2^* L8r - 1/4^* \ln(6)^* F^{\wedge} -3^* \pi^{\wedge} -2^* L6r + 1/8^* \ln(6)^* F^{\wedge} -3^* \pi^{\wedge} -2^* L5r - \\
& 5/16^* \ln(6)^* F^{\wedge} -3^* \pi^{\wedge} -2^* L4r + 5/16^* \ln(6)^* F^{\wedge} -3^* \pi^{\wedge} -2^* L3r + 1/4^* \ln(6)^* F^{\wedge} - \\
& 3^* \pi^{\wedge} -2^* L2r + \ln(6)^* F^{\wedge} -3^* \pi^{\wedge} -2^* L1r - 1/8192^* \ln(6)^{\wedge} 2^* F^{\wedge} -3^* \pi^{\wedge} -4 - 13/18432^* \ln(6)^* \ln(8)^* F^{\wedge} - \\
& 3^* \pi^{\wedge} -4 - 17/18432^* \ln(6)^* \ln(8)^* F^{\wedge} -3^* \sin x^* \cos x^* \sqrt{3}^* \pi^{\wedge} -4 + 5/9216^* \ln(6)^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 2^* \pi^{\wedge} -4 - 1/3456^* \ln(6)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \cos x^* \sqrt{3}^* \pi^{\wedge} -4 - 1/2304^* \ln(6)^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 4^* \pi^{\wedge} -4 - 5/36864^* \ln(8)^* F^{\wedge} -3^* \pi^{\wedge} -4 - 1/6^* \ln(8)^* F^{\wedge} -3^* \pi^{\wedge} -2^* L8r - \\
& 1/4^* \ln(8)^* F^{\wedge} -3^* \pi^{\wedge} -2^* L7r + 1/24^* \ln(8)^* F^{\wedge} -3^* \pi^{\wedge} -2^* L5r - 7/36^* \ln(8)^* F^{\wedge} - \\
& 3^* \pi^{\wedge} -2^* L4r + 17/144^* \ln(8)^* F^{\wedge} -3^* \pi^{\wedge} -2^* L3r + 7/72^* \ln(8)^* F^{\wedge} -3^* \pi^{\wedge} -2^* L2r \\
& + 7/18^* \ln(8)^* F^{\wedge} -3^* \pi^{\wedge} -2^* L1r + 1/9216^* \ln(8)^* F^{\wedge} -3^* \sin x^* \cos x^* \sqrt{3}^* \pi^{\wedge} -4 + \\
& 1/6^* \ln(8)^* F^{\wedge} -3^* \sin x^* \cos x^* \sqrt{3}^* \pi^{\wedge} -2^* L8r + 2/3^* \ln(8)^* F^{\wedge} -3^* \sin x^* \cos x^* \sqrt{3}^* \pi^{\wedge} - \\
& 2^* L7r - 1/6^* \ln(8)^* F^{\wedge} -3^* \sin x^* \cos x^* \sqrt{3}^* \pi^{\wedge} -2^* L6r + 1/36^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^* \cos x^* \sqrt{3}^* \pi^{\wedge} -2^* L5r + 1/72^* \ln(8)^* F^{\wedge} -3^* \sin x^* \cos x^* \sqrt{3}^* \pi^{\wedge} - \\
& 2^* L4r + 5/72^* \ln(8)^* F^{\wedge} -3^* \sin x^* \cos x^* \sqrt{3}^* \pi^{\wedge} -2^* L3r + 1/18^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^* \cos x^* \sqrt{3}^* \pi^{\wedge} -2^* L2r + 2/9^* \ln(8)^* F^{\wedge} -3^* \sin x^* \cos x^* \sqrt{3}^* \pi^{\wedge} -2^* L1r \\
& + 1/4608^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \pi^{\wedge} -4 - 4/9^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \pi^{\wedge} -2^* L8r - \\
& 4/3^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \pi^{\wedge} -2^* L7r + 1/9^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \pi^{\wedge} -2^* L4r - \\
& 1/18^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \pi^{\wedge} -2^* L3r - 1/18^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \pi^{\wedge} -2^* L2r \\
& - 2/9^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \pi^{\wedge} -2^* L1r + 4/9^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \pi^{\wedge} -2^* L8r \\
& + 4/3^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \pi^{\wedge} -2^* L7r + 19/73728^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \pi^{\wedge} -4 + \\
& 13/55296^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \pi^{\wedge} -4 - 5/6144^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \pi^{\wedge} -4 + \\
& 1/1728^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 6^* \pi^{\wedge} -4)
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}^{\wedge} 2^* \text{mkp}2^* (+ 7/18432 / (\text{mass}(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} -3^* \pi^{\wedge} -4 - 5/6912 / (\text{mass}(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^* \cos x^* \sqrt{3}^* \pi^{\wedge} -4 + 1/1536 / (\text{mass}(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \pi^{\wedge} -4 + \\
& 55/24576 / (\text{mass}(6))^* \ln(6)^{\wedge} 2^* F^{\wedge} -3^* \pi^{\wedge} -4 + 29/24576 / (\text{mass}(7))^* \ln(6)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \pi^{\wedge} -4 + 19/18432 / (\text{mass}(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \pi^{\wedge} -4 + 5/6912 / (\text{mass}(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^* \cos x^* \sqrt{3}^* \pi^{\wedge} -4 - 1/1536 / (\text{mass}(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \pi^{\wedge} -4)
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}^{\wedge} 2^* \text{mpp}2^* (+ 17/73728 / (\text{mass}(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} -3^* \pi^{\wedge} -4 - 5/55296 / (\text{mass}(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^* \cos x^* \sqrt{3}^* \pi^{\wedge} -4 - 1/6144 / (\text{mass}(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \pi^{\wedge} -4 - \\
& 1/6144 / (\text{mass}(6))^* \ln(6)^{\wedge} 2^* F^{\wedge} -3^* \pi^{\wedge} -4 - 1/12288 / (\text{mass}(7))^* \ln(6)^{\wedge} 2^* F^{\wedge} -3^* \pi^{\wedge} -4 \\
& + 5/73728 / (\text{mass}(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \pi^{\wedge} -4 + 5/55296 / (\text{mass}(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^* \cos x^* \sqrt{3}^* \pi^{\wedge} -4 + 1/6144 / (\text{mass}(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \pi^{\wedge} -4 \\
&)
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}^{\wedge} 3^* (- 7/36864 / (\text{mass}(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} -3^* \pi^{\wedge} -4 + 1/3456 / (\text{mass}(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^* \cos x^* \sqrt{3}^* \pi^{\wedge} -4 - 1/9216 / (\text{mass}(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \pi^{\wedge} -4 - \\
& 5/8192 / (\text{mass}(6))^* \ln(6)^{\wedge} 2^* F^{\wedge} -3^* \pi^{\wedge} -4 - 3/8192 / (\text{mass}(7))^* \ln(6)^{\wedge} 2^* F^{\wedge} -3^* \pi^{\wedge} -4 \\
& - 11/36864 / (\text{mass}(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \pi^{\wedge} -4 - 1/3456 / (\text{mass}(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^* \cos x^* \sqrt{3}^* \pi^{\wedge} -4 + 1/9216 / (\text{mass}(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \pi^{\wedge} -4 \\
&);
\end{aligned}$$

Neutral pion: $F_{\pi 633} =$

$$\begin{aligned}
& + \text{mkp}2^* (- 4/3^* \text{Hb}(1,1,3, \text{qext}, \text{qext})^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x + 4/3^* \text{Hb}(1,1,8, \text{qext}, \text{qext})^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 2^* \cos x + 4^* \text{Hb}(1,2,3, \text{plext}, \text{plext})^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x - 8/3^* \text{Hb}(1,2,3, \text{plext}, \text{plext})^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 4^* \cos x - 20/9^* \text{Hb}(1,2,8, \text{plext}, \text{plext})^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x + 8/3^* \text{Hb}(1,2,8, \text{plext}, \text{plext})^* F^{\wedge} -
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^4*\cos x + 32/9*HH1b(2,2,3,qext.qext)*F^{-3*\sin x^2*\cos x} - 32/9*HH1b(2,2,8,qext.qext)*F^{-3*\sin x^2*\cos x} + 8/9*HH1b(2,4,7,plext.plext)*F^{-3*\sin x*\sqrt{3}} - 8/9*HH1b(2,4,7,plext.plext)*F^{-3*\sin x*\sqrt{3}} - 1/3*HH1b(2,4,7,qext.qext)*F^{-3*\sin x*\sqrt{3}} - 1/3*HH1b(2,5,6,qext.qext)*F^{-3*\sin x*\sqrt{3}} + 5/18*HH1b(3,4,4,qext.qext)*F^{-3*\sin x*\sqrt{3}} + 2/9*HH1b(3,4,4,qext.qext)*F^{-3*\sin x^2*\cos x} + 2/9*HH1b(3,4,4,qext.qext)*F^{-3*\sin x^3*\sqrt{3}} - 8/9*HH1b(3,4,5,plext.plext)*F^{-3*\sin x*\sqrt{3}} - 8/9*HH1b(3,4,5,plext.plext)*F^{-3*\sin x^4*\cos x} + 8/9*HH1b(3,4,5,plext.plext)*F^{-3*\sin x^5*\sqrt{3}} + 5/18*HH1b(3,5,5,qext.qext)*F^{-3*\sin x*\sqrt{3}} + 2/9*HH1b(3,5,5,qext.qext)*F^{-3*\sin x^2*\cos x} + 2/9*HH1b(3,5,5,qext.qext)*F^{-3*\sin x^3*\sqrt{3}} - 5/18*HH1b(3,6,6,qext.qext)*F^{-3*\sin x*\sqrt{3}} + 2/9*HH1b(3,6,6,qext.qext)*F^{-3*\sin x^2*\cos x} - 2/9*HH1b(3,6,6,qext.qext)*F^{-3*\sin x^3*\sqrt{3}} + 8/9*HH1b(3,6,7,plext.plext)*F^{-3*\sin x*\sqrt{3}} - 8/9*HH1b(3,6,7,plext.plext)*F^{-3*\sin x^4*\cos x} - 8/9*HH1b(3,6,7,plext.plext)*F^{-3*\sin x^5*\sqrt{3}} - 5/18*HH1b(3,7,7,qext.qext)*F^{-3*\sin x*\sqrt{3}} + 2/9*HH1b(3,7,7,qext.qext)*F^{-3*\sin x^2*\cos x} - 2/9*HH1b(3,7,7,qext.qext)*F^{-3*\sin x^3*\sqrt{3}} - 2/3*HH1b(4,1,6,qext.qext)*F^{-3*\sin x*\sqrt{3}} + 16/9*HH1b(4,2,7,plext.plext)*F^{-3*\sin x*\sqrt{3}} - 16/9*HH1b(4,2,7,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} - 2/3*HH1b(4,2,7,qext.qext)*F^{-3*\sin x*\sqrt{3}} - 5/9*HH1b(4,4,8,qext.qext)*F^{-3*\sin x*\sqrt{3}} + 4/9*HH1b(4,4,8,qext.qext)*F^{-3*\sin x^2*\cos x} + 4/9*HH1b(4,4,8,qext.qext)*F^{-3*\sin x^3*\sqrt{3}} + 2/9*HH1b(4,5,8,plext.plext)*F^{-3*\sin x*\sqrt{3}} + 10/9*HH1b(4,5,8,plext.plext)*F^{-3*\sin x^2*\cos x} - 10/9*HH1b(4,5,8,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} - 8/9*HH1b(4,5,8,plext.plext)*F^{-3*\sin x^4*\cos x} + 8/9*HH1b(4,5,8,plext.plext)*F^{-3*\sin x^5*\sqrt{3}} + 16/9*HH1b(5,1,6,plext.plext)*F^{-3*\sin x*\sqrt{3}} - 16/9*HH1b(5,1,6,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} - 2/3*HH1b(5,1,7,qext.qext)*F^{-3*\sin x*\sqrt{3}} - 2/3*HH1b(5,2,6,qext.qext)*F^{-3*\sin x*\sqrt{3}} + 2/9*HH1b(5,4,8,plext.plext)*F^{-3*\sin x*\sqrt{3}} + 10/9*HH1b(5,4,8,plext.plext)*F^{-3*\sin x^2*\cos x} - 10/9*HH1b(5,4,8,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} - 8/9*HH1b(5,4,8,plext.plext)*F^{-3*\sin x^4*\cos x} + 8/9*HH1b(5,4,8,plext.plext)*F^{-3*\sin x^5*\sqrt{3}} - 5/9*HH1b(5,5,8,qext.qext)*F^{-3*\sin x*\sqrt{3}} + 4/9*HH1b(5,5,8,qext.qext)*F^{-3*\sin x^2*\cos x} + 4/9*HH1b(5,5,8,qext.qext)*F^{-3*\sin x^3*\sqrt{3}} + 5/9*HH1b(6,6,8,qext.qext)*F^{-3*\sin x*\sqrt{3}} + 4/9*HH1b(6,6,8,qext.qext)*F^{-3*\sin x^2*\cos x} - 4/9*HH1b(6,6,8,qext.qext)*F^{-3*\sin x^3*\sqrt{3}} - 2/9*HH1b(6,7,8,plext.plext)*F^{-3*\sin x*\sqrt{3}} + 10/9*HH1b(6,7,8,plext.plext)*F^{-3*\sin x^2*\cos x} + 10/9*HH1b(6,7,8,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} - 8/9*HH1b(6,7,8,plext.plext)*F^{-3*\sin x^4*\cos x} - 8/9*HH1b(6,7,8,plext.plext)*F^{-3*\sin x^5*\sqrt{3}} - 2/9*HH1b(7,6,8,plext.plext)*F^{-3*\sin x*\sqrt{3}} + 10/9*HH1b(7,6,8,plext.plext)*F^{-3*\sin x^2*\cos x} + 10/9*HH1b(7,6,8,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} - 8/9*HH1b(7,6,8,plext.plext)*F^{-3*\sin x^4*\cos x} - 8/9*HH1b(7,6,8,plext.plext)*F^{-3*\sin x^5*\sqrt{3}} + 5/9*HH1b(7,7,8,qext.qext)*F^{-3*\sin x*\sqrt{3}} + 4/9*HH1b(7,7,8,qext.qext)*F^{-3*\sin x^2*\cos x} - 4/9*HH1b(7,7,8,qext.qext)*F^{-3*\sin x^3*\sqrt{3}}
\end{aligned}$$

$$\begin{aligned}
& + \text{mkp}2^2 * (+ 15/8192*F^{-3*\cos x*\pi^{-4}} + 11/18432*F^{-3*\cos x*\pi^{-2}} - 1/2*F^{-3*\cos x*\pi^{-2}}*L_8r - F^{-3*\cos x*\pi^{-2}}*L_6r + 1/4*F^{-3*\cos x*\pi^{-2}}*L_5r + 1/2*F^{-3*\cos x*\pi^{-2}}*L_4r - 43/432*F^{-3*\cos x*\pi^{-2}}*L_3r - 13/36*F^{-3*\cos x*\pi^{-2}}*L_2r - 32*F^{-3*\cos x}*L_4r^2 + 32*F^{-3*\cos x}*CC16 + 89/69120*F^{-3*\sin x^2*\cos x*\pi^{-4}} + 7/12960*F^{-3*\sin x^2*\cos x*\pi^{-2}} - 4/9*F^{-3*\sin x^2*\cos x*\pi^{-2}}*L_8r + 2/9*F^{-3*\sin x^2*\cos x*\pi^{-2}}*L_5r + 1/18*F^{-3*\sin x^2*\cos x*\pi^{-2}}*L_3r - 256/3*F^{-3*\sin x^2*\cos x}*CC18 - 256/9*F^{-3*\sin x^2*\cos x}*CC17 - 256/9*F^{-3*\sin x^2*\cos x}*CC14 - 125/15552*C*F^{-3*\sin x^2*\cos x*\pi^{-4}} - 8/9*C*F^{-3*\sin x^2*\cos x*\pi^{-2}}*L_8r + 8/9*C*F^{-3*\sin x^2*\cos x*\pi^{-2}}*L_5r + 23/8640*C^2*F^{-3*\sin x^2*\cos x*\pi^{-4}} - 1/120*C*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-4}} + 11/27648*C*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}} - 13/5760*C*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-4}} - 23/17280*C*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}} - 11/27648*C*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-4} - 13/5760^*C^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 23/17280^*C^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} - 1/120^*C^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 1/120^*C^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} - 1/576^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 4/27^*\ln(3)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}L5r - 1/864^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} + 8/27^*\ln(3)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}L5r - 79/103680^*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} \\
& - 1/1152^*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 7/17280^*\ln(3)^*\ln(4)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} + 1/8640^*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} + \\
& 1/25920^*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} + 79/103680^*\ln(3)^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-4} - 1/1152^*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} - 7/17280^*\ln(3)^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} + 1/8640^*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} - \\
& 1/25920^*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} + 1/1024^*\ln(4)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-} \\
& 4 - 1/4^*\ln(4)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}L8r - 1/2^*\ln(4)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}L6r \\
& + 1/8^*\ln(4)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}L5r - 1/8^*\ln(4)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}L4r + \\
& 5/16^*\ln(4)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}L3r + 1/4^*\ln(4)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}L2r + \ln(4)^*F^{\wedge-} \\
& 3^*\cos x^*\pi^{\wedge-2}L1r - 1/2304^*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} - 1/9^*\ln(4)^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-2}L8r - 2/9^*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}L6r + 13/108^*\ln(4)^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-2}L5r + 1/6^*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}L4r - 1/24^*\ln(4)^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-2}L3r + 1/768^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} - 2/9^*\ln(4)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}L8r + 1/9^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}L5r + \\
& 1/6^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}L3r + 1/576^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 4 - 2/9^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}L8r - 4/9^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*L6r + 2/27^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}L5r + 1/3^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*L4r + 1/6^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}L3r + 5/24576^*\ln(4)^{\wedge 2}F^{\wedge-} \\
& 3^*\cos x^*\pi^{\wedge-4} - 1/1728^*\ln(4)^{\wedge 2}F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} + 1/2160^*\ln(4)^{\wedge 2}F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 13/17280^*\ln(4)^{\wedge 2}F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} - 1/1152^*\ln(4)^{\wedge 2}F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} - 5/12288^*\ln(4)^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-4} - 1/4320^*\ln(4)^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 1/576^*\ln(4)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} - 1/2304^*\ln(4)^*\ln(8)^*F^{\wedge-} \\
& 3^*\cos x^*\pi^{\wedge-4} + 7/51840^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} + 17/17280^*\ln(4)^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} - 1/10368^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} - \\
& 1/8640^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} - 1/25920^*\ln(4)^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} + 1/1024^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-4} - 1/4^*\ln(6)^*F^{\wedge-} \\
& 3^*\cos x^*\pi^{\wedge-2}L8r - 1/2^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}L6r + 1/8^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-} \\
& 2^*L5r - 1/8^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}L4r + 5/16^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-} \\
& 2^*L3r + 1/4^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}L2r + \ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}L1r + \\
& 1/2304^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} + 1/9^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}L8r \\
& + 2/9^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}L6r - 13/108^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*L5r - 1/6^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}L4r + 1/24^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*L3r + 1/768^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} - 2/9^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-} \\
& 2^*L8r + 1/9^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}L5r + 1/6^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-} \\
& 2^*L3r - 1/576^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} + 2/9^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*L8r + 4/9^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}L6r - 2/27^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*L5r - 1/3^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}L4r - 1/6^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*L3r + 5/24576^*\ln(6)^{\wedge 2}F^{\wedge-3}*\cos x^*\pi^{\wedge-4} + 1/1728^*\ln(6)^{\wedge 2}F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-} \\
& 4 + 1/2160^*\ln(6)^{\wedge 2}F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} - 13/17280^*\ln(6)^{\wedge 2}F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} - 1/1152^*\ln(6)^{\wedge 2}F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} - 1/2304^*\ln(6)^*\ln(8)^*F^{\wedge-} \\
& 3^*\cos x^*\pi^{\wedge-4} - 7/51840^*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} + 17/17280^*\ln(6)^*\ln(8)^*F^{\wedge-}
\end{aligned}$$

$$\begin{aligned}
& 3^{\text{sinx}^2 \text{cosx} \pi^4} + 1/10368 \ln(6) \ln(8) F^{-3 \text{sinx}^3 \sqrt{3} \pi^4} - \\
& 1/8640 \ln(6) \ln(8) F^{-3 \text{sinx}^4 \text{cosx} \pi^4} + 1/25920 \ln(6) \ln(8) F^{-3 \text{sinx}^5 \sqrt{3} \pi^4} \\
& - 1/1152 \ln(8) F^{-3 \text{cosx} \pi^4} - 4/9 \ln(8) F^{-3 \text{cosx} \pi^2 L4r} + 2/9 \ln(8) F^{-3 \text{cosx} \pi^2 L3r} \\
& + 2/9 \ln(8) F^{-3 \text{cosx} \pi^2 L2r} + 8/9 \ln(8) F^{-3 \text{cosx} \pi^2 L1r} + 1/1728 \ln(8) F^{-3 \text{sinx}^2 \text{cosx} \pi^4} \\
& + 4/27 \ln(8) F^{-3 \text{sinx}^2 \text{cosx} \pi^2 L5r} + 1/864 \ln(8) F^{-3 \text{sinx}^4 \text{cosx} \pi^4} \\
& - 8/27 \ln(8) F^{-3 \text{sinx}^4 \text{cosx} \pi^2 L5r} - 16/9 \text{Hb}(1,2,3, \text{plext.plext}) F^{-3 \text{sinx}^2 \text{cosx}} \\
& - 8/9 \text{Hb}(1,2,3,1, \text{plext.plext}) F^{-3 \text{sinx}^4 \text{cosx}} + 16/9 \text{Hb}(1,2,8, \text{plext.plext}) F^{-3 \text{sinx}^2 \text{cosx}} \\
& + 16/9 \text{Hb}(1,2,8, \text{plext.plext}) F^{-3 \text{sinx}^4 \text{cosx}} + 8/9 \text{Hb}(1,2,8, \text{plext.plext}) F^{-3 \text{sinx}^2 \text{cosx}} \\
& + 8/9 \text{Hb}(1,2,8,1, \text{plext.plext}) F^{-3 \text{sinx}^4 \text{cosx}} + 8/9 \text{Hb}(1,5,6, \text{plext.plext}) F^{-3 \text{sinx}^2 \text{cosx}} \\
& + 8/9 \text{Hb}(1,5,6, \text{plext.plext}) F^{-3 \text{sinx}^3 \sqrt{3} m83} - 1 - 4/9 \text{Hb}(1,5,6,1, \text{plext.plext}) F^{-3 \text{sinx} \sqrt{3}} \\
& + 4/9 \text{Hb}(1,5,6,1, \text{plext.plext}) F^{-3 \text{sinx}^3 \sqrt{3}} + 8/9 \text{Hb}(2,4,7, \text{plext.plext}) F^{-3 \text{sinx}^2 \text{cosx}} \\
& + 8/9 \text{Hb}(2,4,7, \text{plext.plext}) F^{-3 \text{sinx}^3 \sqrt{3} m83} - 1 - 4/9 \text{Hb}(2,4,7,1, \text{plext.plext}) F^{-3 \text{sinx} \sqrt{3}} \\
& + 4/9 \text{Hb}(2,4,7,1, \text{plext.plext}) F^{-3 \text{sinx}^3 \sqrt{3}} + 8/9 \text{Hb}(3,1,2, \text{plext.plext}) F^{-3 \text{sinx}^2 \text{cosx}} \\
& + 4/9 \text{Hb}(3,1,2,1, \text{plext.plext}) F^{-3 \text{sinx}^2 \text{cosx}} + 2/9 \text{Hb}(3,1,2,1, \text{plext.plext}) F^{-3 \text{sinx}^4 \text{cosx}} \\
& + 16/243 \text{Hb}(3,3,3, \text{plext.plext}) F^{-3 \text{sinx}^4 \text{cosx}} + 352/243 \text{Hb}(3,3,3, \text{plext.plext}) F^{-3 \text{sinx}^4 \text{cosx}} \\
& + 352/243 \text{Hb}(3,3,3, \text{plext.plext}) F^{-3 \text{sinx}^6 \text{cosx}} + 512/243 \text{Hb}(3,3,3, \text{plext.plext}) F^{-3 \text{sinx}^8 \text{cosx}} \\
& - 256/81 \text{Hb}(3,3,3, \text{plext.plext}) F^{-3 \text{sinx}^2 \text{cosx}} + 128/81 \text{Hb}(3,3,3,1, \text{plext.plext}) F^{-3 \text{sinx}^4 \text{cosx}} \\
& - 512/243 \text{Hb}(3,3,3,1, \text{plext.plext}) F^{-3 \text{sinx}^6 \text{cosx}} + 256/243 \text{Hb}(3,3,3,1, \text{plext.plext}) F^{-3 \text{sinx}^8 \text{cosx}} \\
& - 16/81 \text{Hb}(3,3,8, \text{plext.plext}) F^{-3 \text{sinx}^2 \text{cosx}} + 256/27 \text{Hb}(3,3,8, \text{plext.plext}) F^{-3 \text{sinx}^6 \text{cosx}} \\
& - 512/81 \text{Hb}(3,3,8, \text{plext.plext}) F^{-3 \text{sinx}^8 \text{cosx}} + 32/81 \text{Hb}(3,3,8,1, \text{plext.plext}) F^{-3 \text{sinx}^2 \text{cosx}} \\
& - 32/9 \text{Hb}(3,3,8,1, \text{plext.plext}) F^{-3 \text{sinx}^4 \text{cosx}} + 512/81 \text{Hb}(3,3,8,1, \text{plext.plext}) F^{-3 \text{sinx}^6 \text{cosx}} \\
& - 256/81 \text{Hb}(3,3,8,1, \text{plext.plext}) F^{-3 \text{sinx}^8 \text{cosx}} - 16/81 \text{Hb}(3,4,5, \text{plext.plext}) F^{-3 \text{sinx} \sqrt{3} m83} \\
& + 20/27 \text{Hb}(3,4,5, \text{plext.plext}) F^{-3 \text{sinx}^2 \text{cosx}} - 1 - 41/81 \text{Hb}(3,4,5, \text{plext.plext}) F^{-3 \text{sinx}^3 \sqrt{3} m83} \\
& - 1 + 2/27 \text{Hb}(3,4,5, \text{plext.plext}) F^{-3 \text{sinx}^5 \sqrt{3} m83} - 1 + 13/54 \text{Hb}(3,4,5,1, \text{plext.plext}) F^{-3 \text{sinx} \sqrt{3}} \\
& + 5/9 \text{Hb}(3,4,5,1, \text{plext.plext}) F^{-3 \text{sinx}^2 \text{cosx}} - 5/18 \text{Hb}(3,4,5,1, \text{plext.plext}) F^{-3 \text{sinx}^3 \sqrt{3}} \\
& + 1/27 \text{Hb}(3,4,5,1, \text{plext.plext}) F^{-3 \text{sinx}^5 \sqrt{3}} + 16/81 \text{Hb}(3,6,7, \text{plext.plext}) F^{-3 \text{sinx} \sqrt{3} m83} \\
& + 20/27 \text{Hb}(3,6,7, \text{plext.plext}) F^{-3 \text{sinx}^2 \text{cosx}} + 41/81 \text{Hb}(3,6,7, \text{plext.plext}) F^{-3 \text{sinx}^3 \sqrt{3} m83} \\
& - 1 + 2/27 \text{Hb}(3,6,7, \text{plext.plext}) F^{-3 \text{sinx}^5 \sqrt{3} m83} - 1 - 13/54 \text{Hb}(3,6,7,1, \text{plext.plext}) F^{-3 \text{sinx} \sqrt{3}} \\
& + 5/9 \text{Hb}(3,6,7,1, \text{plext.plext}) F^{-3 \text{sinx}^2 \text{cosx}} + 5/18 \text{Hb}(3,6,7,1, \text{plext.plext}) F^{-3 \text{sinx}^3 \sqrt{3}} \\
& + 1/27 \text{Hb}(3,6,7,1, \text{plext.plext}) F^{-3 \text{sinx}^5 \sqrt{3}} - 1/27 \text{Hb}(3,6,7,1, \text{plext.plext}) F^{-3 \text{sinx}^4 \text{cosx}} \\
& - 1/27 \text{Hb}(3,6,7,1, \text{plext.plext}) F^{-3 \text{sinx}^5 \sqrt{3}} + 16/81 \text{Hb}(3,8,8, \text{plext.plext}) F^{-3 \text{sinx}^2 \text{cosx}} \\
& + 224/81 \text{Hb}(3,8,8, \text{plext.plext}) F^{-3 \text{sinx}^4 \text{cosx}} - 1 - 256/27 \text{Hb}(3,8,8, \text{plext.plext}) F^{-3 \text{sinx}^6 \text{cosx}} \\
& + 512/81 \text{Hb}(3,8,8, \text{plext.plext}) F^{-3 \text{sinx}^8 \text{cosx}} + 256/81 \text{Hb}(3,8,8,1, \text{plext.plext}) F^{-3 \text{sinx}^4 \text{cosx}} \\
& - 512/81 \text{Hb}(3,8,8,1, \text{plext.plext}) F^{-3 \text{sinx}^6 \text{cosx}} + 256/81 \text{Hb}(3,8,8,1, \text{plext.plext}) F^{-3 \text{sinx}^8 \text{cosx}} \\
& - 1/18 \text{Hb}(4,2,7, \text{plext.plext}) F^{-3 \text{sinx} \sqrt{3} m83} +
\end{aligned}$$

$$\begin{aligned}
& 2/9^*Hb(4,2,7,plext.plext)^*F^{-3}*sinx^3*sqrt3*m83^{-1} - 1/9^*Hb(4,2,7,1,plext.plext)^*F^{-} \\
& 3^*sinx*sqrt3 + 1/9^*Hb(4,2,7,1,plext.plext)^*F^{-3}*sinx^3*sqrt3 + 16/81^*Hb(4,5,8,plext.plext)^*F^{-} \\
& 3^*sinx*sqrt3*m83^{-1} - 8/27^*Hb(4,5,8,plext.plext)^*F^{-3}*sinx^2*cosx*m83^{-1} \\
& + 68/81^*Hb(4,5,8,plext.plext)^*F^{-3}*sinx^3*sqrt3*m83^{-1} + 40/27^*Hb(4,5,8,plext.plext)^*F^{-} \\
& 3^*sinx^4*cosx*m83^{-1} - 8/9^*Hb(4,5,8,plext.plext)^*F^{-3}*sinx^5*sqrt3*m83^{-1} \\
& - 2/27^*Hb(4,5,8,1,plext.plext)^*F^{-3}*sinx*sqrt3 - 8/27^*Hb(4,5,8,1,plext.plext)^*F^{-} \\
& 3^*sinx^2*cosx + 14/27^*Hb(4,5,8,1,plext.plext)^*F^{-3}*sinx^3*sqrt3 + \\
& 20/27^*Hb(4,5,8,1,plext.plext)^*F^{-3}*sinx^4*cosx - 4/9^*Hb(4,5,8,1,plext.plext)^*F^{-} \\
& 3^*sinx^5*sqrt3 - 1/18^*Hb(5,1,6,plext.plext)^*F^{-3}*sinx*sqrt3*m83^{-1} + \\
& 2/9^*Hb(5,1,6,plext.plext)^*F^{-3}*sinx^3*sqrt3*m83^{-1} - 1/9^*Hb(5,1,6,1,plext.plext)^*F^{-} \\
& 3^*sinx*sqrt3 + 1/9^*Hb(5,1,6,1,plext.plext)^*F^{-3}*sinx^3*sqrt3 + 1/18^*Hb(6,1,5,plext.plext)^*F^{-} \\
& 3^*sinx*sqrt3*m83^{-1} - 2/9^*Hb(6,1,5,plext.plext)^*F^{-3}*sinx^3*sqrt3*m83^{-1} \\
& + 1/9^*Hb(6,1,5,1,plext.plext)^*F^{-3}*sinx*sqrt3 - 1/9^*Hb(6,1,5,1,plext.plext)^*F^{-} \\
& 3^*sinx^3*sqrt3 - 16/81^*Hb(6,7,8,plext.plext)^*F^{-3}*sinx*sqrt3*m83^{-1} - \\
& 8/27^*Hb(6,7,8,plext.plext)^*F^{-3}*sinx^2*cosx*m83^{-1} - 68/81^*Hb(6,7,8,plext.plext)^*F^{-} \\
& 3^*sinx^3*sqrt3*m83^{-1} + 40/27^*Hb(6,7,8,plext.plext)^*F^{-3}*sinx^4*cosx*m83^{-} \\
& 1 + 8/9^*Hb(6,7,8,plext.plext)^*F^{-3}*sinx^5*sqrt3*m83^{-1} + 2/27^*Hb(6,7,8,1,plext.plext)^*F^{-} \\
& 3^*sinx*sqrt3 - 8/27^*Hb(6,7,8,1,plext.plext)^*F^{-3}*sinx^2*cosx - 14/27^*Hb(6,7,8,1,plext.plext)^*F^{-} \\
& 3^*sinx^3*sqrt3 + 20/27^*Hb(6,7,8,1,plext.plext)^*F^{-3}*sinx^4*cosx + \\
& 4/9^*Hb(6,7,8,1,plext.plext)^*F^{-3}*sinx^5*sqrt3 + 1/18^*Hb(7,2,4,plext.plext)^*F^{-} \\
& 3^*sinx*sqrt3*m83^{-1} - 2/9^*Hb(7,2,4,plext.plext)^*F^{-3}*sinx^3*sqrt3*m83^{-1} \\
& + 1/9^*Hb(7,2,4,1,plext.plext)^*F^{-3}*sinx*sqrt3 - 1/9^*Hb(7,2,4,1,plext.plext)^*F^{-} \\
& 3^*sinx^3*sqrt3 - 4/9^*Hb(8,1,2,plext.plext)^*F^{-3}*sinx^4*cosx*m83^{-1} + \\
& 2/9^*Hb(8,1,2,1,plext.plext)^*F^{-3}*sinx^2*cosx - 2/9^*Hb(8,1,2,1,plext.plext)^*F^{-} \\
& 3^*sinx^4*cosx + 1/9^*Hb(8,4,5,plext.plext)^*F^{-3}*sinx*sqrt3*m83^{-1} - \\
& 1/3^*Hb(8,4,5,plext.plext)^*F^{-3}*sinx^3*sqrt3*m83^{-1} + 2/9^*Hb(8,4,5,plext.plext)^*F^{-} \\
& 3^*sinx^4*cosx*m83^{-1} + 2/9^*Hb(8,4,5,plext.plext)^*F^{-3}*sinx^5*sqrt3*m83^{-} \\
& 1 + 1/18^*Hb(8,4,5,1,plext.plext)^*F^{-3}*sinx*sqrt3 - 1/9^*Hb(8,4,5,1,plext.plext)^*F^{-} \\
& 3^*sinx^2*cosx - 1/6^*Hb(8,4,5,1,plext.plext)^*F^{-3}*sinx^3*sqrt3 + 1/9^*Hb(8,4,5,1,plext.plext)^*F^{-} \\
& 3^*sinx^4*cosx + 1/9^*Hb(8,4,5,1,plext.plext)^*F^{-3}*sinx^5*sqrt3 - 1/9^*Hb(8,6,7,plext.plext)^*F^{-} \\
& 3^*sinx*sqrt3*m83^{-1} + 1/3^*Hb(8,6,7,plext.plext)^*F^{-3}*sinx^3*sqrt3*m83^{-1} \\
& + 2/9^*Hb(8,6,7,plext.plext)^*F^{-3}*sinx^4*cosx*m83^{-1} - 2/9^*Hb(8,6,7,plext.plext)^*F^{-} \\
& 3^*sinx^5*sqrt3*m83^{-1} - 1/18^*Hb(8,6,7,1,plext.plext)^*F^{-3}*sinx*sqrt3 - \\
& 1/9^*Hb(8,6,7,1,plext.plext)^*F^{-3}*sinx^2*cosx + 1/6^*Hb(8,6,7,1,plext.plext)^*F^{-} \\
& 3^*sinx^3*sqrt3 + 1/9^*Hb(8,6,7,1,plext.plext)^*F^{-3}*sinx^4*cosx - 1/9^*Hb(8,6,7,1,plext.plext)^*F^{-} \\
& 3^*sinx^5*sqrt3 + 112/243^*Hb(8,8,8,plext.plext)^*F^{-3}*sinx^2*cosx*m83^{-1} - \\
& 352/243^*Hb(8,8,8,plext.plext)^*F^{-3}*sinx^4*cosx*m83^{-1} + 256/81^*Hb(8,8,8,plext.plext)^*F^{-} \\
& 3^*sinx^6*cosx*m83^{-1} - 512/243^*Hb(8,8,8,plext.plext)^*F^{-3}*sinx^8*cosx*m83^{-} \\
& 1 + 32/243^*Hb(8,8,8,1,plext.plext)^*F^{-3}*sinx^2*cosx - 32/27^*Hb(8,8,8,1,plext.plext)^*F^{-} \\
& 3^*sinx^4*cosx + 512/243^*Hb(8,8,8,1,plext.plext)^*F^{-3}*sinx^6*cosx - \\
& 256/243^*Hb(8,8,8,1,plext.plext)^*F^{-3}*sinx^8*cosx + 2/3^*H21b(1,5,6,plext.plext)^*F^{-} \\
& 3^*sinx^2*cosx*m83^{-1} + 1/3^*H21b(1,5,6,1,plext.plext)^*F^{-3}*sinx^2*cosx + \\
& 2/3^*H21b(2,4,7,plext.plext)^*F^{-3}*sinx^2*cosx*m83^{-1} + 1/3^*H21b(2,4,7,1,plext.plext)^*F^{-} \\
& 3^*sinx^2*cosx + 4/3^*H21b(3,1,2,plext.plext)^*F^{-3}*sinx^4*cosx*m83^{-1} - \\
& 2/3^*H21b(3,1,2,1,plext.plext)^*F^{-3}*sinx^2*cosx + 2/3^*H21b(3,1,2,1,plext.plext)^*F^{-} \\
& 3^*sinx^4*cosx - 1/3^*H21b(3,4,5,plext.plext)^*F^{-3}*sinx^3*sqrt3*m83^{-1} -
\end{aligned}$$

$$\begin{aligned}
& 2/3^*H21b(3,4,5,plext.plext)^*F^{-3}*sinx^4*cosx*m83^{-1} - 2/3^*H21b(3,4,5,plext.plext)^*F^{-3}*sinx^5*sqrt3*m83^{-1} + 1/2^*H21b(3,4,5,1,plext.plext)^*F^{-3}*sinx*sqrt3 + \\
& 1/3^*H21b(3,4,5,1,plext.plext)^*F^{-3}*sinx^2*cosx - 1/6^*H21b(3,4,5,1,plext.plext)^*F^{-3}*sinx^3*sqrt3 - 1/3^*H21b(3,4,5,1,plext.plext)^*F^{-3}*sinx^4*cosx - 1/3^*H21b(3,4,5,1,plext.plext)^*F^{-3}*sinx^5*sqrt3 + 1/3^*H21b(3,6,7,plext.plext)^*F^{-3}*sinx^3*sqrt3*m83^{-1} - \\
& 2/3^*H21b(3,6,7,plext.plext)^*F^{-3}*sinx^4*cosx*m83^{-1} + 2/3^*H21b(3,6,7,plext.plext)^*F^{-3}*sinx^5*sqrt3*m83^{-1} - 1/2^*H21b(3,6,7,1,plext.plext)^*F^{-3}*sinx*sqrt3 + \\
& 1/3^*H21b(3,6,7,1,plext.plext)^*F^{-3}*sinx^2*cosx + 1/6^*H21b(3,6,7,1,plext.plext)^*F^{-3}*sinx^3*sqrt3 - 1/3^*H21b(3,6,7,1,plext.plext)^*F^{-3}*sinx^4*cosx + 1/3^*H21b(3,6,7,1,plext.plext)^*F^{-3}*sinx^5*sqrt3 + 1/3^*H21b(4,2,7,plext.plext)^*F^{-3}*sinx*sqrt3*m83^{-1} - \\
& 1/3^*H21b(4,2,7,plext.plext)^*F^{-3}*sinx^2*cosx*m83^{-1} + 1/3^*H21b(4,2,7,plext.plext)^*F^{-3}*sinx^3*sqrt3*m83^{-1} - 1/6^*H21b(4,2,7,1,plext.plext)^*F^{-3}*sinx*sqrt3 - \\
& 1/6^*H21b(4,2,7,1,plext.plext)^*F^{-3}*sinx^2*cosx + 1/6^*H21b(4,2,7,1,plext.plext)^*F^{-3}*sinx^3*sqrt3 + 1/3^*H21b(5,1,6,plext.plext)^*F^{-3}*sinx*sqrt3*m83^{-1} - \\
& 1/3^*H21b(5,1,6,plext.plext)^*F^{-3}*sinx^2*cosx*m83^{-1} + 1/3^*H21b(5,1,6,plext.plext)^*F^{-3}*sinx^3*sqrt3*m83^{-1} - 1/6^*H21b(5,1,6,1,plext.plext)^*F^{-3}*sinx*sqrt3 - \\
& 1/6^*H21b(5,1,6,1,plext.plext)^*F^{-3}*sinx^2*cosx + 1/6^*H21b(5,1,6,1,plext.plext)^*F^{-3}*sinx^3*sqrt3 - 1/3^*H21b(6,1,5,plext.plext)^*F^{-3}*sinx*sqrt3*m83^{-1} - \\
& 1/3^*H21b(6,1,5,plext.plext)^*F^{-3}*sinx^2*cosx*m83^{-1} - 1/3^*H21b(6,1,5,plext.plext)^*F^{-3}*sinx^3*sqrt3*m83^{-1} + 1/6^*H21b(6,1,5,1,plext.plext)^*F^{-3}*sinx*sqrt3 - \\
& 1/6^*H21b(6,1,5,1,plext.plext)^*F^{-3}*sinx^2*cosx - 1/6^*H21b(6,1,5,1,plext.plext)^*F^{-3}*sinx^3*sqrt3 - 1/3^*H21b(7,2,4,plext.plext)^*F^{-3}*sinx*sqrt3*m83^{-1} - \\
& 1/3^*H21b(7,2,4,plext.plext)^*F^{-3}*sinx^2*cosx*m83^{-1} - 1/3^*H21b(7,2,4,plext.plext)^*F^{-3}*sinx^3*sqrt3*m83^{-1} + 1/6^*H21b(7,2,4,1,plext.plext)^*F^{-3}*sinx*sqrt3 - \\
& 1/6^*H21b(7,2,4,1,plext.plext)^*F^{-3}*sinx^2*cosx - 1/6^*H21b(7,2,4,1,plext.plext)^*F^{-3}*sinx^3*sqrt3 - 4/3^*H21b(8,1,2,plext.plext)^*F^{-3}*sinx^4*cosx*m83^{-1} - 2/3^*H21b(8,1,2,1,plext.plext)^*F^{-3}*sinx^4*cosx - 2/3^*H21b(8,4,5,plext.plext)^*F^{-3}*sinx*sqrt3*m83^{-1} + \\
& 2/3^*H21b(8,4,5,plext.plext)^*F^{-3}*sinx^2*cosx*m83^{-1} - 1/3^*H21b(8,4,5,plext.plext)^*F^{-3}*sinx^3*sqrt3*m83^{-1} + 2/3^*H21b(8,4,5,plext.plext)^*F^{-3}*sinx^4*cosx*m83^{-1} - 1/6^*H21b(8,4,5,1,plext.plext)^*F^{-3}*sinx*sqrt3 - 1/6^*H21b(8,4,5,1,plext.plext)^*F^{-3}*sinx^3*sqrt3 + 1/3^*H21b(8,4,5,1,plext.plext)^*F^{-3}*sinx^4*cosx + 1/3^*H21b(8,4,5,1,plext.plext)^*F^{-3}*sinx^5*sqrt3 + \\
& 2/3^*H21b(8,6,7,plext.plext)^*F^{-3}*sinx*sqrt3*m83^{-1} + 2/3^*H21b(8,6,7,plext.plext)^*F^{-3}*sinx^2*cosx*m83^{-1} + 1/3^*H21b(8,6,7,plext.plext)^*F^{-3}*sinx^3*sqrt3*m83^{-1} - 1/3^*H21b(8,6,7,plext.plext)^*F^{-3}*sinx^4*cosx*m83^{-1} - 2/3^*H21b(8,6,7,plext.plext)^*F^{-3}*sinx^5*sqrt3*m83^{-1} + 1/6^*H21b(8,6,7,1,plext.plext)^*F^{-3}*sinx*sqrt3 + \\
& 1/6^*H21b(8,6,7,1,plext.plext)^*F^{-3}*sinx^3*sqrt3 + 1/3^*H21b(8,6,7,1,plext.plext)^*F^{-3}*sinx^4*cosx - 1/3^*H21b(8,6,7,1,plext.plext)^*F^{-3}*sinx^5*sqrt3 - 8/27^*HH1b(1,2,3,plext.plext)^*F^{-3}*sinx^2*cosx*m83^{-1} + 32/9^*HH1b(1,2,3,plext.plext)^*F^{-3}*sinx^4*cosx*m83^{-1} - \\
& 16/9^*HH1b(1,2,3,1,plext.plext)^*F^{-3}*sinx^2*cosx + 16/9^*HH1b(1,2,3,1,plext.plext)^*F^{-3}*sinx^4*cosx - 40/27^*HH1b(1,2,8,plext.plext)^*F^{-3}*sinx^2*cosx*m83^{-1} - \\
& 32/9^*HH1b(1,2,8,plext.plext)^*F^{-3}*sinx^4*cosx*m83^{-1} + 8/9^*HH1b(1,2,8,1,plext.plext)^*F^{-3}*sinx^2*cosx - 16/9^*HH1b(1,2,8,1,plext.plext)^*F^{-3}*sinx^4*cosx + \\
& 8/9^*HH1b(1,5,6,plext.plext)^*F^{-3}*sinx^2*cosx*m83^{-1} - 8/9^*HH1b(1,5,6,plext.plext)^*F^{-3}*sinx^3*sqrt3*m83^{-1} + 4/9^*HH1b(1,5,6,1,plext.plext)^*F^{-3}*sinx*sqrt3 +
\end{aligned}$$

$$\begin{aligned}
& 4/9*HH1b(1,5,6,1,plext.plect)*F^{-3*\sin x^2*\cos x} - 4/9*HH1b(1,5,6,1,plext.plect)*F^{-3*\sin x^3*\sqrt{3}} - 8/27*HH1b(2,1,3,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} + \\
& 32/9*HH1b(2,1,3,plext.plect)*F^{-3*\sin x^4*\cos x*m83^{-1}} - 16/9*HH1b(2,1,3,1,plext.plect)*F^{-3*\sin x^2*\cos x} + \\
& 16/9*HH1b(2,1,3,1,plext.plect)*F^{-3*\sin x^4*\cos x} - 40/27*HH1b(2,1,8,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} - 32/9*HH1b(2,1,8,plext.plect)*F^{-3*\sin x^4*\cos x*m83^{-1}} + \\
& 8/9*HH1b(2,1,8,1,plext.plect)*F^{-3*\sin x^2*\cos x} - 16/9*HH1b(2,1,8,1,plext.plect)*F^{-3*\sin x^4*\cos x} + 8/9*HH1b(2,4,7,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} - \\
& 8/9*HH1b(2,4,7,plext.plect)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 4/9*HH1b(2,4,7,1,plext.plect)*F^{-3*\sin x^2*\cos x} - \\
& 4/9*HH1b(2,4,7,1,plext.plect)*F^{-3*\sin x^3*\sqrt{3}} + 8/27*HH1b(3,4,5,plext.plect)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - 4/27*HH1b(3,4,5,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} + \\
& 4/9*HH1b(3,4,5,plext.plect)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} - 16/9*HH1b(3,4,5,plext.plect)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} - 4/9*HH1b(3,4,5,1,plext.plect)*F^{-3*\sin x*\sqrt{3}} + \\
& 4/27*HH1b(3,4,5,1,plext.plect)*F^{-3*\sin x^3*\sqrt{3}} - 8/9*HH1b(3,4,5,1,plext.plect)*F^{-3*\sin x^4*\cos x} + \\
& 8/27*HH1b(3,4,5,1,plext.plect)*F^{-3*\sin x^5*\sqrt{3}} - 8/27*HH1b(3,6,7,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} - 4/27*HH1b(3,6,7,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} - \\
& 4/9*HH1b(3,6,7,plext.plect)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} - 16/9*HH1b(3,6,7,plext.plect)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} + \\
& 4/9*HH1b(3,6,7,1,plext.plect)*F^{-3*\sin x*\sqrt{3}} - 4/27*HH1b(3,6,7,1,plext.plect)*F^{-3*\sin x^4*\cos x} - \\
& 8/27*HH1b(3,6,7,1,plext.plect)*F^{-3*\sin x^5*\sqrt{3}} - 16/9*HH1b(4,2,7,plext.plect)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 8/9*HH1b(4,2,7,1,plext.plect)*F^{-3*\sin x*\sqrt{3}} - 8/9*HH1b(4,2,7,1,plext.plect)*F^{-3*\sin x^3*\sqrt{3}} - 8/27*HH1b(4,5,8,plext.plect)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 20/27*HH1b(4,5,8,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} - 4/9*HH1b(4,5,8,plext.plect)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} - 16/9*HH1b(4,5,8,plext.plect)*F^{-3*\sin x^4*\cos x*m83^{-1}} + 16/27*HH1b(4,5,8,plext.plect)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} - 1 + 4/9*HH1b(4,5,8,1,plext.plect)*F^{-3*\sin x^2*\cos x} - 8/27*HH1b(4,5,8,1,plext.plect)*F^{-3*\sin x^3*\sqrt{3}} - 8/9*HH1b(4,5,8,1,plext.plect)*F^{-3*\sin x^4*\cos x} + 8/27*HH1b(4,5,8,1,plext.plect)*F^{-3*\sin x^5*\sqrt{3}} - 16/9*HH1b(5,1,6,plext.plect)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 8/9*HH1b(5,1,6,1,plext.plect)*F^{-3*\sin x*\sqrt{3}} - 8/9*HH1b(5,1,6,1,plext.plect)*F^{-3*\sin x^3*\sqrt{3}} - 8/27*HH1b(5,4,8,plext.plect)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 20/27*HH1b(5,4,8,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} - 1 - 4/9*HH1b(5,4,8,plext.plect)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} - 16/9*HH1b(5,4,8,plext.plect)*F^{-3*\sin x^4*\cos x*m83^{-1}} + 16/27*HH1b(5,4,8,plext.plect)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} - 1 + 4/9*HH1b(5,4,8,1,plext.plect)*F^{-3*\sin x^2*\cos x} - 8/27*HH1b(5,4,8,1,plext.plect)*F^{-3*\sin x^3*\sqrt{3}} - 8/9*HH1b(5,4,8,1,plext.plect)*F^{-3*\sin x^4*\cos x} + 8/27*HH1b(5,4,8,1,plext.plect)*F^{-3*\sin x^5*\sqrt{3}} + 8/27*HH1b(6,7,8,plext.plect)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 20/27*HH1b(6,7,8,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} - 1 + 4/9*HH1b(6,7,8,plext.plect)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} - 16/9*HH1b(6,7,8,plext.plect)*F^{-3*\sin x^4*\cos x*m83^{-1}} - 16/27*HH1b(6,7,8,plext.plect)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} - 1 + 4/9*HH1b(6,7,8,1,plext.plect)*F^{-3*\sin x^2*\cos x} + 8/27*HH1b(6,7,8,1,plext.plect)*F^{-3*\sin x^3*\sqrt{3}} - 8/9*HH1b(6,7,8,1,plext.plect)*F^{-3*\sin x^4*\cos x} - 8/27*HH1b(6,7,8,1,plext.plect)*F^{-3*\sin x^5*\sqrt{3}} + 8/27*HH1b(7,6,8,plext.plect)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 20/27*HH1b(7,6,8,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} + 4/9*HH1b(7,6,8,plext.plect)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} - 16/9*HH1b(7,6,8,plext.plect)*F^{-3*\sin x^4*\cos x*m83^{-1}}
\end{aligned}$$

$$\begin{aligned}
& 1 - 16/27*HH1b(7,6,8,plext.plext)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} + 4/9*HH1b(7,6,8,1,plext.plext)*F^{-3*\sin x^2*\cos x} + 8/27*HH1b(7,6,8,1,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} - \\
& 8/9*HH1b(7,6,8,1,plext.plext)*F^{-3*\sin x^4*\cos x} - 8/27*HH1b(7,6,8,1,plext.plext)*F^{-3*\sin x^5*\sqrt{3}} \\
& + mkp2^3 * (- 1253/31104*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} - 293/46656*F^{-3*\sin x^2*\cos x*\pi^{-2}*m83^{-1}} - 160/27*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1}} - \\
& 64/27*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1}} - 160/27*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1}} + 208/81*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1}} + 80/27*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1}} + 2/27*F^{-3*\sin x^2*\cos x*\pi^{-2}*L3r*m83^{-1}} \\
& + 4096/27*F^{-3*\sin x^2*\cos x*L5r*L8r*m83^{-1}} + 4096/9*F^{-3*\sin x^2*\cos x*L5r*L7r*m83^{-1}} + 4096/9*F^{-3*\sin x^2*\cos x*L4r*L8r*m83^{-1}} + 4096/3*F^{-3*\sin x^2*\cos x*L4r*L7r*m83^{-1}} \\
& + 4096/9*F^{-3*\sin x^2*\cos x*CC33*m83^{-1}} + 2048/9*F^{-3*\sin x^2*\cos x*CC32*m83^{-1}} + 2048/9*F^{-3*\sin x^2*\cos x*CC31*m83^{-1}} + 2048/9*F^{-3*\sin x^2*\cos x*CC20*m83^{-1}} \\
& + 1024/3*F^{-3*\sin x^2*\cos x*CC19*m83^{-1}} - 1024/9*F^{-3*\sin x^2*\cos x*CC18*m83^{-1}} - 1024/27*F^{-3*\sin x^2*\cos x*CC17*m83^{-1}} - 1024/27*F^{-3*\sin x^2*\cos x*CC14*m83^{-1}} \\
& - 128/27*C*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1}} - 128/9*C*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1}} - 23/3240*C*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + \\
& 1/162*C*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} - 163/34560*C*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} + 1/216*C*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} \\
& + 1/216*C*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} + 163/34560*C*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} + 1/216*C*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} \\
& - 1/216*C*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} + 43/3240*C*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} - 1/162*C*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} \\
& - 1/1944*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} - 352/81*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1}} - 256/27*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1}} + 88/81*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1}} - 1/243*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} - 1088/81*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1}} \\
& - 256/9*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1}} - 128/27*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-1}} + 112/81*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-1}} + 16/9*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-1}} + 512/81*\ln(3)*F^{-3*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-1}} + 512/27*\ln(3)*F^{-3*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-1}} + 47/31104*\ln(3)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + 7/1944*\ln(3)^2*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} + 17/1944*\ln(3)^2*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-1}} - 2/243*\ln(3)^2*F^{-3*\sin x^8*\cos x*\pi^{-4}*m83^{-1}} - 1/2592*\ln(3)*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1}} - 7/7776*\ln(3)*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} - 43/25920*\ln(3)*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} - 1/2592*\ln(3)*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1}} - 263/77760*\ln(3)*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} + 1/486*\ln(3)*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m38^{-1}} - 1/162*\ln(3)*\ln(4)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-1}} - 1/486*\ln(3)*\ln(4)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m38^{-1}} - 1/972*\ln(3)*\ln(4)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1}} + 1/2592*\ln(3)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1}} + 7/7776*\ln(3)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} - 43/25920*\ln(3)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + 1/2592*\ln(3)*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1}} + 263/77760*\ln(3)*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} - 1/486*\ln(3)*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m38^{-1}} - 11/1944*\ln(3)*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1}}
\end{aligned}$$

$$\begin{aligned}
& 3^4 \sin^5 \sqrt{3} \pi^{-4} m^{83} - 1 - 1/162 \ln(3) \ln(6) F^{-3} \sin^6 \cos^x \pi^{-4} m^{83} - 1 + 1/486 \ln(3) \ln(6) F^{-3} \sin^7 \sqrt{3} \pi^{-4} m^{83} - 1 + 1/972 \ln(3) \ln(6) F^{-3} \sin^7 \sqrt{3} \pi^{-4} m^{83} - 1 + 1/1728 \ln(3) \ln(8) F^{-3} \sin^2 \cos^x \pi^{-4} m^{83} - 1 + 2/243 \ln(3) \ln(8) F^{-3} \sin^4 \cos^x \pi^{-4} m^{83} - 1 - 25/972 \ln(3) \ln(8) F^{-3} \sin^6 \cos^x \pi^{-4} m^{83} - 1 + 4/243 \ln(3) \ln(8) F^{-3} \sin^8 \cos^x \pi^{-4} m^{83} - 1 - 5/2592 \ln(4) F^{-3} \sin \sqrt{3} \pi^{-4} m^{83} - 1 + 20/81 \ln(4) F^{-3} \sin \sqrt{3} \pi^{-2} L_8 r^* m^{38} - 1 - 8/81 \ln(4) F^{-3} \sin \sqrt{3} \pi^{-2} L_8 r^* m^{38} - 1 + 4/9 \ln(4) F^{-3} \sin \sqrt{3} \pi^{-2} L_7 r^* m^{38} - 1 - 28/27 \ln(4) F^{-3} \sin \sqrt{3} \pi^{-2} L_7 r^* m^{38} - 1 - 4/27 \ln(4) F^{-3} \sin \sqrt{3} \pi^{-2} L_6 r^* m^{38} - 1 + 44/27 \ln(4) F^{-3} \sin \sqrt{3} \pi^{-2} L_6 r^* m^{38} - 1 - 4/81 \ln(4) F^{-3} \sin \sqrt{3} \pi^{-2} L_5 r^* m^{38} - 1 + 29/81 \ln(4) F^{-3} \sin \sqrt{3} \pi^{-2} L_5 r^* m^{38} - 1 + 2/27 \ln(4) F^{-3} \sin \sqrt{3} \pi^{-2} L_4 r^* m^{38} - 1 - 16/27 \ln(4) F^{-3} \sin \sqrt{3} \pi^{-2} L_4 r^* m^{38} - 1 - 1/18 \ln(4) F^{-3} \sin \sqrt{3} \pi^{-2} L_3 r^* m^{38} - 1 - 1/1728 \ln(4) F^{-3} \sin^2 \cos^x \pi^{-4} m^{83} - 1 - 272/27 \ln(4) F^{-3} \sin^2 \cos^x \pi^{-2} L_8 r^* m^{38} - 1 - 16 \ln(4) F^{-3} \sin^2 \cos^x \pi^{-2} L_7 r^* m^{38} - 1 - 32/9 \ln(4) F^{-3} \sin^2 \cos^x \pi^{-2} L_6 r^* m^{38} - 1 + 52/27 \ln(4) F^{-3} \sin^2 \cos^x \pi^{-2} L_5 r^* m^{38} - 1 + 4/3 \ln(4) F^{-3} \sin^2 \cos^x \pi^{-2} L_4 r^* m^{38} - 1 + 2/9 \ln(4) F^{-3} \sin^2 \cos^x \pi^{-2} L_3 r^* m^{38} - 1 + 89/15552 \ln(4) F^{-3} \sin^3 \sqrt{3} \pi^{-4} m^{83} - 1 - 112/81 \ln(4) F^{-3} \sin^3 \sqrt{3} \pi^{-2} L_8 r^* m^{38} - 1 + 128/27 \ln(4) F^{-3} \sin^3 \sqrt{3} \pi^{-2} L_7 r^* m^{38} - 1 + 208/27 \ln(4) F^{-3} \sin^3 \sqrt{3} \pi^{-2} L_6 r^* m^{38} - 1 - 80/27 \ln(4) F^{-3} \sin^3 \sqrt{3} \pi^{-2} L_6 r^* m^{38} - 1 - 8/81 \ln(4) F^{-3} \sin^3 \sqrt{3} \pi^{-2} L_5 r^* m^{38} - 1 + 4/81 \ln(4) F^{-3} \sin^3 \sqrt{3} \pi^{-2} L_5 r^* m^{38} - 1 - 8/27 \ln(4) F^{-3} \sin^3 \sqrt{3} \pi^{-2} L_4 r^* m^{38} - 1 + 28/27 \ln(4) F^{-3} \sin^3 \sqrt{3} \pi^{-2} L_4 r^* m^{38} - 1 + 2/9 \ln(4) F^{-3} \sin^3 \sqrt{3} \pi^{-2} L_3 r^* m^{38} - 1 - 1/486 \ln(4) F^{-3} \sin^5 \sqrt{3} \pi^{-4} m^{83} - 1 + 128/81 \ln(4) F^{-3} \sin^5 \sqrt{3} \pi^{-2} L_8 r^* m^{38} - 1 - 64/27 \ln(4) F^{-3} \sin^5 \sqrt{3} \pi^{-2} L_8 r^* m^{38} - 1 + 128/27 \ln(4) F^{-3} \sin^5 \sqrt{3} \pi^{-2} L_7 r^* m^{38} - 1 - 64/9 \ln(4) F^{-3} \sin^5 \sqrt{3} \pi^{-2} L_7 r^* m^{38} - 1 + 1/2304 \ln(4)^2 F^{-3} \cos^x \pi^{-4} m^{83} - 1 + 1/20736 \ln(4)^2 F^{-3} \sin \sqrt{3} \pi^{-4} m^{83} - 1 - 1/864 \ln(4)^2 F^{-3} \sin^2 \cos^x \pi^{-4} m^{83} - 1 + 7/5184 \ln(4)^2 F^{-3} \sin^2 \cos^x \pi^{-4} m^{83} - 1 + 5/2592 \ln(4)^2 F^{-3} \sin^3 \sqrt{3} \pi^{-4} m^{83} - 1 + 1/216 \ln(4)^2 F^{-3} \sin^3 \sqrt{3} \pi^{-4} m^{83} - 1 - 1/144 \ln(4)^2 F^{-3} \sin^4 \cos^x \pi^{-4} m^{83} - 1 - 1/648 \ln(4)^2 F^{-3} \sin^5 \sqrt{3} \pi^{-4} m^{83} - 1 + 1/432 \ln(4)^2 F^{-3} \sin^5 \sqrt{3} \pi^{-4} m^{83} - 1 - 1/1152 \ln(4) \ln(6) F^{-3} \cos^x \pi^{-4} m^{83} - 1 + 1/432 \ln(4) \ln(6) F^{-3} \sin^2 \cos^x \pi^{-4} m^{38} - 1 - 13/2592 \ln(4) \ln(6) F^{-3} \sin^2 \cos^x \pi^{-4} m^{83} - 1 - 1/108 \ln(4) \ln(6) F^{-3} \sin^4 \cos^x \pi^{-4} m^{38} - 1 + 1/7776 \ln(4) \ln(8) F^{-3} \sin \sqrt{3} \pi^{-4} m^{38} - 1 - 143/77760 \ln(4) \ln(8) F^{-3} \sin \sqrt{3} \pi^{-4} m^{83} - 1 - 59/8640 \ln(4) \ln(8) F^{-3} \sin^2 \cos^x \pi^{-4} m^{83} - 1 + 5/2592 \ln(4) \ln(8) F^{-3} \sin^3 \sqrt{3} \pi^{-4} m^{38} - 1 + 263/77760 \ln(4) \ln(8) F^{-3} \sin^3 \sqrt{3} \pi^{-4} m^{83} - 1 - 1/243 \ln(4) \ln(8) F^{-3} \sin^5 \sqrt{3} \pi^{-4} m^{38} - 1 - 5/1944 \ln(4) \ln(8) F^{-3} \sin^5 \sqrt{3} \pi^{-4} m^{83} - 1 + 1/162 \ln(4) \ln(8) F^{-3} \sin^6 \cos^x \pi^{-4} m^{83} - 1 + 1/486 \ln(4) \ln(8) F^{-3} \sin^7 \sqrt{3} \pi^{-4} m^{38} - 1 + 1/972 \ln(4) \ln(8) F^{-3} \sin^7 \sqrt{3} \pi^{-4} m^{83} - 1 + 1/972 \ln(4) \ln(8) F^{-3} \sin^7 \sqrt{3} \pi^{-4} m^{83} - 1
\end{aligned}$$

$$\begin{aligned}
& 3^{\sin x^7 \sqrt{3} \pi^{-4} m 83^{-1}} + 5/2592 \ln(6) F^{-3 \sin x \sqrt{3} \pi^{-4} m 83^{-1}} \\
& - 20/81 \ln(6) F^{-3 \sin x \sqrt{3} \pi^{-2} L 8 r^* m 38^{-1}} + 8/81 \ln(6) F^{-3 \sin x \sqrt{3} \pi^{-2} L 8 r^* m 83^{-1}} - 4/9 \ln(6) F^{-3 \sin x \sqrt{3} \pi^{-2} L 7 r^* m 38^{-1}} \\
& + 28/27 \ln(6) F^{-3 \sin x \sqrt{3} \pi^{-2} L 7 r^* m 83^{-1}} + 4/27 \ln(6) F^{-3 \sin x \sqrt{3} \pi^{-2} L 6 r^* m 38^{-1}} - 44/27 \ln(6) F^{-3 \sin x \sqrt{3} \pi^{-2} L 6 r^* m 83^{-1}} \\
& + 4/81 \ln(6) F^{-3 \sin x \sqrt{3} \pi^{-2} L 5 r^* m 38^{-1}} - 29/81 \ln(6) F^{-3 \sin x \sqrt{3} \pi^{-2} L 5 r^* m 83^{-1}} - 2/27 \ln(6) F^{-3 \sin x \sqrt{3} \pi^{-2} L 4 r^* m 38^{-1}} \\
& + 16/27 \ln(6) F^{-3 \sin x \sqrt{3} \pi^{-2} L 4 r^* m 83^{-1}} + 1/18 \ln(6) F^{-3 \sin x \sqrt{3} \pi^{-2} L 3 r^* m 83^{-1}} - 1/1728 \ln(6) F^{-3 \sin^2 \cos x \pi^{-4} m 83^{-1}} \\
& - 272/27 \ln(6) F^{-3 \sin^2 \cos x \pi^{-2} L 8 r^* m 83^{-1}} - 16 \ln(6) F^{-3 \sin^2 \cos x \pi^{-2} L 7 r^* m 83^{-1}} - 32/9 \ln(6) F^{-3 \sin^2 \cos x \pi^{-2} L 5 r^* m 83^{-1}} \\
& + 4/3 \ln(6) F^{-3 \sin^2 \cos x \pi^{-2} L 4 r^* m 83^{-1}} + 2/9 \ln(6) F^{-3 \sin^2 \cos x \pi^{-2} L 3 r^* m 83^{-1}} - 89/15552 \ln(6) F^{-3 \sin^3 \sqrt{3} \pi^{-4} m 83^{-1}} + 112/81 \ln(6) F^{-3 \sin^3 \sqrt{3} \pi^{-2} L 8 r^* m 38^{-1}} \\
& - 128/81 \ln(6) F^{-3 \sin^3 \sqrt{3} \pi^{-2} L 8 r^* m 83^{-1}} + 128/27 \ln(6) F^{-3 \sin^3 \sqrt{3} \pi^{-2} L 7 r^* m 38^{-1}} - 208/27 \ln(6) F^{-3 \sin^3 \sqrt{3} \pi^{-2} L 7 r^* m 83^{-1}} - 16/27 \ln(6) F^{-3 \sin^3 \sqrt{3} \pi^{-2} L 6 r^* m 38^{-1}} \\
& + 80/27 \ln(6) F^{-3 \sin^3 \sqrt{3} \pi^{-2} L 6 r^* m 83^{-1}} + 8/81 \ln(6) F^{-3 \sin^3 \sqrt{3} \pi^{-2} L 5 r^* m 38^{-1}} - 4/81 \ln(6) F^{-3 \sin^3 \sqrt{3} \pi^{-2} L 5 r^* m 83^{-1}} + 8/27 \ln(6) F^{-3 \sin^3 \sqrt{3} \pi^{-2} L 4 r^* m 38^{-1}} \\
& - 28/27 \ln(6) F^{-3 \sin^3 \sqrt{3} \pi^{-2} L 4 r^* m 83^{-1}} - 2/9 \ln(6) F^{-3 \sin^3 \sqrt{3} \pi^{-2} L 3 r^* m 83^{-1}} + 1/486 \ln(6) F^{-3 \sin^5 \sqrt{3} \pi^{-4} m 83^{-1}} - 128/81 \ln(6) F^{-3 \sin^5 \sqrt{3} \pi^{-2} L 8 r^* m 38^{-1}} + 64/27 \ln(6) F^{-3 \sin^5 \sqrt{3} \pi^{-2} L 8 r^* m 83^{-1}} \\
& - 128/27 \ln(6) F^{-3 \sin^5 \sqrt{3} \pi^{-2} L 7 r^* m 38^{-1}} + 64/9 \ln(6) F^{-3 \sin^5 \sqrt{3} \pi^{-2} L 7 r^* m 83^{-1}} + 1/2304 \ln(6)^2 F^{-3 \cos x \pi^{-4} m 83^{-1}} - 1/20736 \ln(6)^2 F^{-3 \sin x \sqrt{3} \pi^{-4} m 38^{-1}} + 131/103680 \ln(6)^2 F^{-3 \sin x \sqrt{3} \pi^{-4} m 83^{-1}} - 1/864 \ln(6)^2 F^{-3 \sin^2 \cos x \pi^{-4} m 38^{-1}} + 7/5184 \ln(6)^2 F^{-3 \sin^2 \cos x \pi^{-4} m 83^{-1}} + 5/5184 \ln(6)^2 F^{-3 \sin^3 \sqrt{3} \pi^{-4} m 83^{-1}} + 1/216 \ln(6)^2 F^{-3 \sin^4 \cos x \pi^{-4} m 38^{-1}} - 1/144 \ln(6)^2 F^{-3 \sin^4 \cos x \pi^{-4} m 83^{-1}} + 1/648 \ln(6)^2 F^{-3 \sin^5 \sqrt{3} \pi^{-4} m 38^{-1}} - 1/432 \ln(6)^2 F^{-3 \sin^5 \sqrt{3} \pi^{-4} m 83^{-1}} - 1/7776 \ln(6) \ln(8) F^{-3 \sin x \sqrt{3} \pi^{-4} m 38^{-1}} + 143/77760 \ln(6) \ln(8) F^{-3 \sin x \sqrt{3} \pi^{-4} m 83^{-1}} - 59/8640 \ln(6) \ln(8) F^{-3 \sin^2 \cos x \pi^{-4} m 83^{-1}} - 5/2592 \ln(6) \ln(8) F^{-3 \sin^3 \sqrt{3} \pi^{-4} m 38^{-1}} - 263/77760 \ln(6) \ln(8) F^{-3 \sin^3 \sqrt{3} \pi^{-4} m 83^{-1}} + 1/243 \ln(6) \ln(8) F^{-3 \sin^5 \sqrt{3} \pi^{-4} m 38^{-1}} + 1/162 \ln(6) \ln(8) F^{-3 \sin^5 \sqrt{3} \pi^{-4} m 83^{-1}} - 1/486 \ln(6) \ln(8) F^{-3 \sin^7 \sqrt{3} \pi^{-4} m 38^{-1}} - 1/972 \ln(6) \ln(8) F^{-3 \sin^7 \sqrt{3} \pi^{-4} m 83^{-1}} - 1/324 \ln(8) F^{-3 \sin^2 \cos x \pi^{-4} m 38^{-1}} - 32/3 \ln(8) F^{-3 \sin^2 \cos x \pi^{-2} L 8 r^* m 83^{-1}} - 448/27 \ln(8) F^{-3 \sin^2 \cos x \pi^{-2} L 7 r^* m 83^{-1}} - 128/27 \ln(8) F^{-3 \sin^2 \cos x \pi^{-2} L 6 r^* m 83^{-1}} + 40/27 \ln(8) F^{-3 \sin^2 \cos x \pi^{-2} L 5 r^* m 83^{-1}} + 16/9 \ln(8) F^{-3 \sin^2 \cos x \pi^{-2} L 4 r^* m 83^{-1}} + 1/243 \ln(8) F^{-3 \sin^4 \cos x \pi^{-4} m 38^{-1}} + 1088/81 \ln(8) F^{-3 \sin^4 \cos x \pi^{-2} L 8 r^* m 83^{-1}} + 256/9 \ln(8) F^{-3 \sin^4 \cos x \pi^{-2} L 7 r^* m 83^{-1}} + 128/27 \ln(8) F^{-3 \sin^4 \cos x \pi^{-2} L 6 r^* m 83^{-1}} - 112/81 \ln(8) F^{-3 \sin^4 \cos x \pi^{-2} L 5 r^* m 83^{-1}}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^4 * \cos x * \pi^{\wedge} 2 * L5r * m83^{\wedge} -1 - 16/9 * \ln(8) * F^{\wedge} -3 * \sin x^4 * \cos x * \pi^{\wedge} - \\
& 2 * L4r * m83^{\wedge} -1 - 512/81 * \ln(8) * F^{\wedge} -3 * \sin x^6 * \cos x * \pi^{\wedge} -2 * L8r * m83^{\wedge} -1 - 512/27 * \ln(8) * F^{\wedge} - \\
& 3 * \sin x^6 * \cos x * \pi^{\wedge} -2 * L7r * m83^{\wedge} -1 + 143/31104 * \ln(8)^{\wedge} 2 * F^{\wedge} -3 * \sin x^2 * \cos x * \pi^{\wedge} - \\
& 4 * m83^{\wedge} -1 - 23/1944 * \ln(8)^{\wedge} 2 * F^{\wedge} -3 * \sin x^4 * \cos x * \pi^{\wedge} -4 * m83^{\wedge} -1 + 11/648 * \ln(8)^{\wedge} 2 * F^{\wedge} - \\
& 3 * \sin x^6 * \cos x * \pi^{\wedge} -4 * m83^{\wedge} -1 - 2/243 * \ln(8)^{\wedge} 2 * F^{\wedge} -3 * \sin x^8 * \cos x * \pi^{\wedge} -4 * m83^{\wedge} -1 \\
& + 1/1620 / (\text{mass}(3)) * \ln(3)^{\wedge} 2 * F^{\wedge} -3 * \sin x^2 * \cos x * \pi^{\wedge} -4 + 1/810 / (\text{mass}(3)) * \ln(3)^{\wedge} 2 * F^{\wedge} - \\
& 3 * \sin x^4 * \cos x * \pi^{\wedge} -4 + 5/6144 / (\text{mass}(4)) * \ln(4)^{\wedge} 2 * F^{\wedge} -3 * \cos x * \pi^{\wedge} -4 - 7/184320 / (\text{mass}(4)) * \ln(4)^{\wedge} 2 * F^{\wedge} - \\
& 3 * \sin x * \sqrt{3} * \pi^{\wedge} -4 + 7/11520 / (\text{mass}(4)) * \ln(4)^{\wedge} 2 * F^{\wedge} -3 * \sin x^2 * \cos x * \pi^{\wedge} -4 + \\
& 1/2304 / (\text{mass}(4)) * \ln(4)^{\wedge} 2 * F^{\wedge} -3 * \sin x^3 * \sqrt{3} * \pi^{\wedge} -4 + 1/1536 / (\text{mass}(5)) * \ln(4)^{\wedge} 2 * F^{\wedge} - \\
& 3 * \cos x * \pi^{\wedge} -4 - 7/184320 / (\text{mass}(5)) * \ln(4)^{\wedge} 2 * F^{\wedge} -3 * \sin x * \sqrt{3} * \pi^{\wedge} -4 + 41/34560 / (\text{mass}(5)) * \ln(4)^{\wedge} 2 * F^{\wedge} - \\
& 3 * \sin x^2 * \cos x * \pi^{\wedge} -4 + 1/2304 / (\text{mass}(5)) * \ln(4)^{\wedge} 2 * F^{\wedge} -3 * \sin x^3 * \sqrt{3} * \pi^{\wedge} -4 + \\
& 5/6144 / (\text{mass}(6)) * \ln(6)^{\wedge} 2 * F^{\wedge} -3 * \cos x * \pi^{\wedge} -4 + 7/184320 / (\text{mass}(6)) * \ln(6)^{\wedge} 2 * F^{\wedge} - \\
& 3 * \sin x * \sqrt{3} * \pi^{\wedge} -4 + 7/11520 / (\text{mass}(6)) * \ln(6)^{\wedge} 2 * F^{\wedge} -3 * \sin x^2 * \cos x * \pi^{\wedge} -4 - \\
& 1/2304 / (\text{mass}(6)) * \ln(6)^{\wedge} 2 * F^{\wedge} -3 * \sin x^3 * \sqrt{3} * \pi^{\wedge} -4 + 1/1536 / (\text{mass}(7)) * \ln(6)^{\wedge} 2 * F^{\wedge} - \\
& 3 * \cos x * \pi^{\wedge} -4 + 7/184320 / (\text{mass}(7)) * \ln(6)^{\wedge} 2 * F^{\wedge} -3 * \sin x * \sqrt{3} * \pi^{\wedge} -4 + \\
& 41/34560 / (\text{mass}(7)) * \ln(6)^{\wedge} 2 * F^{\wedge} -3 * \sin x^2 * \cos x * \pi^{\wedge} -4 - 1/2304 / (\text{mass}(7)) * \ln(6)^{\wedge} 2 * F^{\wedge} - \\
& 3 * \sin x^3 * \sqrt{3} * \pi^{\wedge} -4 + 1/1152 / (\text{mass}(8)) * \ln(8)^{\wedge} 2 * F^{\wedge} -3 * \cos x * \pi^{\wedge} -4 + \\
& 1/540 / (\text{mass}(8)) * \ln(8)^{\wedge} 2 * F^{\wedge} -3 * \sin x^2 * \cos x * \pi^{\wedge} -4 - 1/810 / (\text{mass}(8)) * \ln(8)^{\wedge} 2 * F^{\wedge} - \\
& 3 * \sin x^4 * \cos x * \pi^{\wedge} -4) \\
& + \text{mkp}2^4 * (- 32768/9 * F^{\wedge} -3 * \sin x^2 * \cos x * L8r^2 * m83^{\wedge} -2 - 557056/27 * F^{\wedge} - \\
& 3 * \sin x^2 * \cos x * L7r * L8r * m83^{\wedge} -2 - 262144/9 * F^{\wedge} -3 * \sin x^2 * \cos x * L7r^2 * m83^{\wedge} -2 - \\
& 32768/27 * F^{\wedge} -3 * \sin x^2 * \cos x * L6r * L8r * m83^{\wedge} -2 - 32768/9 * F^{\wedge} -3 * \sin x^2 * \cos x * L6r * L7r * m83^{\wedge} - \\
& 2 + 16384/81 * F^{\wedge} -3 * \sin x^2 * \cos x * L5r * L8r * m83^{\wedge} -2 + 16384/27 * F^{\wedge} -3 * \sin x^2 * \cos x * L5r * L7r * m83^{\wedge} - \\
& 2 + 16384/27 * F^{\wedge} -3 * \sin x^2 * \cos x * L4r * L8r * m83^{\wedge} -2 + 16384/9 * F^{\wedge} -3 * \sin x^2 * \cos x * L4r * L7r * m83^{\wedge} - \\
& 2 + 131072/27 * F^{\wedge} -3 * \sin x^4 * \cos x * L8r^2 * m83^{\wedge} -2 + 262144/9 * F^{\wedge} -3 * \sin x^4 * \cos x * L7r * L8r * m83^{\wedge} - \\
& 2 + 131072/3 * F^{\wedge} -3 * \sin x^4 * \cos x * L7r^2 * m83^{\wedge} -2 + 1/243 * C * \ln(3) * F^{\wedge} - \\
& 3 * \sin x^2 * \cos x * \pi^{\wedge} -4 * m83^{\wedge} -2 + 1/648 * C * \ln(4) * F^{\wedge} -3 * \sin x * \sqrt{3} * \pi^{\wedge} -4 * m83^{\wedge} -2 \\
& - 1/648 * C * \ln(6) * F^{\wedge} -3 * \sin x * \sqrt{3} * \pi^{\wedge} -4 * m83^{\wedge} -2 - 1/243 * C * \ln(8) * F^{\wedge} - \\
& 3 * \sin x^2 * \cos x * \pi^{\wedge} -4 * m83^{\wedge} -2 + 64/27 * \ln(3) * F^{\wedge} -3 * \sin x^2 * \cos x * \pi^{\wedge} -2 * L8r * m83^{\wedge} - \\
& 2 + 704/81 * \ln(3) * F^{\wedge} -3 * \sin x^2 * \cos x * \pi^{\wedge} -2 * L7r * m83^{\wedge} -2 - 64/81 * \ln(3) * F^{\wedge} - \\
& 3 * \sin x^2 * \cos x * \pi^{\wedge} -2 * L6r * m83^{\wedge} -2 - 32/81 * \ln(3) * F^{\wedge} -3 * \sin x^2 * \cos x * \pi^{\wedge} - \\
& 2 * L4r * m83^{\wedge} -2 + 2176/243 * \ln(3) * F^{\wedge} -3 * \sin x^4 * \cos x * \pi^{\wedge} -2 * L8r * m83^{\wedge} -2 + \\
& 2048/81 * \ln(3) * F^{\wedge} -3 * \sin x^4 * \cos x * \pi^{\wedge} -2 * L7r * m83^{\wedge} -2 + 128/81 * \ln(3) * F^{\wedge} - \\
& 3 * \sin x^4 * \cos x * \pi^{\wedge} -2 * L6r * m83^{\wedge} -2 - 64/243 * \ln(3) * F^{\wedge} -3 * \sin x^4 * \cos x * \pi^{\wedge} - \\
& 2 * L5r * m83^{\wedge} -2 - 64/81 * \ln(3) * F^{\wedge} -3 * \sin x^4 * \cos x * \pi^{\wedge} -2 * L4r * m83^{\wedge} -2 - 1024/81 * \ln(3) * F^{\wedge} - \\
& 3 * \sin x^6 * \cos x * \pi^{\wedge} -2 * L8r * m83^{\wedge} -2 - 1024/27 * \ln(3) * F^{\wedge} -3 * \sin x^6 * \cos x * \pi^{\wedge} - \\
& 2 * L7r * m83^{\wedge} -2 - 5/5832 * \ln(3)^{\wedge} 2 * F^{\wedge} -3 * \sin x^2 * \cos x * \pi^{\wedge} -4 * m83^{\wedge} -2 - 1/486 * \ln(3)^{\wedge} 2 * F^{\wedge} - \\
& 3 * \sin x^4 * \cos x * \pi^{\wedge} -4 * m83^{\wedge} -2 - 4/729 * \ln(3)^{\wedge} 2 * F^{\wedge} -3 * \sin x^6 * \cos x * \pi^{\wedge} -4 * m83^{\wedge} -2 \\
& + 2/243 * \ln(3)^{\wedge} 2 * F^{\wedge} -3 * \sin x^8 * \cos x * \pi^{\wedge} -4 * m83^{\wedge} -2 + 7/11664 * \ln(3) * \ln(4) * F^{\wedge} - \\
& 3 * \sin x * \sqrt{3} * \pi^{\wedge} -4 * m83^{\wedge} -2 - 11/3888 * \ln(3) * \ln(4) * F^{\wedge} -3 * \sin x^2 * \cos x * \pi^{\wedge} - \\
& 4 * m83^{\wedge} -2 - 1/3888 * \ln(3) * \ln(4) * F^{\wedge} -3 * \sin x^3 * \sqrt{3} * \pi^{\wedge} -4 * m83^{\wedge} -2 - 7/972 * \ln(3) * \ln(4) * F^{\wedge} - \\
& 3 * \sin x^4 * \cos x * \pi^{\wedge} -4 * m83^{\wedge} -2 - 37/2916 * \ln(3) * \ln(4) * F^{\wedge} -3 * \sin x^5 * \sqrt{3} * \pi^{\wedge} - \\
& 4 * m83^{\wedge} -2 + 1/81 * \ln(3) * \ln(4) * F^{\wedge} -3 * \sin x^6 * \cos x * \pi^{\wedge} -4 * m83^{\wedge} -2 + 1/81 * \ln(3) * \ln(4) * F^{\wedge} - \\
& 3 * \sin x^7 * \sqrt{3} * \pi^{\wedge} -4 * m83^{\wedge} -2 - 7/11664 * \ln(3) * \ln(6) * F^{\wedge} -3 * \sin x * \sqrt{3} * \pi^{\wedge} - \\
& 4 * m83^{\wedge} -2 - 11/3888 * \ln(3) * \ln(6) * F^{\wedge} -3 * \sin x^2 * \cos x * \pi^{\wedge} -4 * m83^{\wedge} -2 + 1/3888 * \ln(3) * \ln(6) * F^{\wedge} -
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^3 * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - 7/972 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^4 * \cos x * \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} + 37/2916 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^5 * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + \\
& 1/81 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^6 * \cos x * \pi^{\wedge -4} * m83^{\wedge -2} - 1/81 * \ln(3) * \ln(6) * F^{\wedge -} \\
& 3^* \sin x^7 * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - 1/972 * \ln(3) * \ln(8) * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} - 2/243 * \ln(3) * \ln(8) * F^{\wedge -3} * \sin x^4 * \cos x * \pi^{\wedge -4} * m83^{\wedge -2} + 20/729 * \ln(3) * \ln(8) * F^{\wedge -} \\
& 3^* \sin x^6 * \cos x * \pi^{\wedge -4} * m83^{\wedge -2} - 4/243 * \ln(3) * \ln(8) * F^{\wedge -3} * \sin x^8 * \cos x * \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} - 160/243 * \ln(4) * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -2} * L8r * m83^{\wedge -2} - 64/81 * \ln(4) * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -2} * L7r * m83^{\wedge -2} - 32/27 * \ln(4) * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -2} * L6r * m83^{\wedge -} \\
& 2 + 16/81 * \ln(4) * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -2} * L5r * m83^{\wedge -2} + 160/27 * \ln(4) * F^{\wedge -} \\
& 3^* \sin x^2 * \cos x * \pi^{\wedge -2} * L8r * m83^{\wedge -2} + 448/27 * \ln(4) * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -} \\
& 2 * L7r * m83^{\wedge -2} + 32/27 * \ln(4) * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -2} * L6r * m83^{\wedge -2} - 16/81 * \ln(4) * F^{\wedge -} \\
& 3^* \sin x^2 * \cos x * \pi^{\wedge -2} * L5r * m83^{\wedge -2} - 16/27 * \ln(4) * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -} \\
& 2 * L4r * m83^{\wedge -2} + 2464/243 * \ln(4) * F^{\wedge -3} * \sin x^3 * \sqrt{3} * \pi^{\wedge -2} * L8r * m83^{\wedge -2} + \\
& 2368/81 * \ln(4) * F^{\wedge -3} * \sin x^3 * \sqrt{3} * \pi^{\wedge -2} * L7r * m83^{\wedge -2} + 32/27 * \ln(4) * F^{\wedge -} \\
& 3^* \sin x^3 * \sqrt{3} * \pi^{\wedge -2} * L6r * m83^{\wedge -2} - 16/81 * \ln(4) * F^{\wedge -3} * \sin x^3 * \sqrt{3} * \pi^{\wedge -} \\
& 2 * L5r * m83^{\wedge -2} - 16/27 * \ln(4) * F^{\wedge -3} * \sin x^3 * \sqrt{3} * \pi^{\wedge -2} * L4r * m83^{\wedge -2} - 256/27 * \ln(4) * F^{\wedge -} \\
& 3^* \sin x^4 * \cos x * \pi^{\wedge -2} * L8r * m83^{\wedge -2} - 256/9 * \ln(4) * F^{\wedge -3} * \sin x^4 * \cos x * \pi^{\wedge -} \\
& 2 * L7r * m83^{\wedge -2} - 256/27 * \ln(4) * F^{\wedge -3} * \sin x^5 * \sqrt{3} * \pi^{\wedge -2} * L8r * m83^{\wedge -2} - \\
& 256/9 * \ln(4) * F^{\wedge -3} * \sin x^5 * \sqrt{3} * \pi^{\wedge -2} * L7r * m83^{\wedge -2} - 1/3456 * \ln(4)^{\wedge 2} * F^{\wedge -} \\
& 3^* \cos x * \pi^{\wedge -4} * m83^{\wedge -2} - 1/7776 * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} \\
& + 1/324 * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -4} * m83^{\wedge -2} - 17/1944 * \ln(4)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^3 * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - 1/108 * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x^4 * \cos x * \pi^{\wedge -4} * m83^{\wedge -} \\
& 2 + 1/108 * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x^5 * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + 1/1728 * \ln(4) * \ln(6) * F^{\wedge -} \\
& 3^* \cos x * \pi^{\wedge -4} * m83^{\wedge -2} - 5/324 * \ln(4) * \ln(6) * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -4} * m83^{\wedge -2} + \\
& 1/27 * \ln(4) * \ln(6) * F^{\wedge -3} * \sin x^4 * \cos x * \pi^{\wedge -4} * m83^{\wedge -2} + 1/1296 * \ln(4) * \ln(8) * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - 7/1296 * \ln(4) * \ln(8) * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} - 157/11664 * \ln(4) * \ln(8) * F^{\wedge -3} * \sin x^3 * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + \\
& 19/972 * \ln(4) * \ln(8) * F^{\wedge -3} * \sin x^4 * \cos x * \pi^{\wedge -4} * m83^{\wedge -2} + 73/2916 * \ln(4) * \ln(8) * F^{\wedge -} \\
& 3^* \sin x^5 * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - 1/81 * \ln(4) * \ln(8) * F^{\wedge -3} * \sin x^6 * \cos x * \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} - 1/81 * \ln(4) * \ln(8) * F^{\wedge -3} * \sin x^7 * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + 160/243 * \ln(6) * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -2} * L8r * m83^{\wedge -2} + 64/81 * \ln(6) * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -2} * L7r * m83^{\wedge -} \\
& 2 + 32/27 * \ln(6) * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -2} * L6r * m83^{\wedge -2} - 16/81 * \ln(6) * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -2} * L5r * m83^{\wedge -2} + 160/27 * \ln(6) * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -} \\
& 2 * L8r * m83^{\wedge -2} + 448/27 * \ln(6) * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -2} * L7r * m83^{\wedge -2} + \\
& 32/27 * \ln(6) * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -2} * L6r * m83^{\wedge -2} - 16/81 * \ln(6) * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -} \\
& 2 * L5r * m83^{\wedge -2} - 16/27 * \ln(6) * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -2} * L4r * m83^{\wedge -2} - 2464/243 * \ln(6) * F^{\wedge -} \\
& 3^* \sin x^3 * \sqrt{3} * \pi^{\wedge -2} * L8r * m83^{\wedge -2} - 2368/81 * \ln(6) * F^{\wedge -3} * \sin x^3 * \sqrt{3} * \pi^{\wedge -} \\
& 2 * L7r * m83^{\wedge -2} - 32/27 * \ln(6) * F^{\wedge -3} * \sin x^3 * \sqrt{3} * \pi^{\wedge -2} * L6r * m83^{\wedge -2} + \\
& 16/81 * \ln(6) * F^{\wedge -3} * \sin x^3 * \sqrt{3} * \pi^{\wedge -2} * L5r * m83^{\wedge -2} + 16/27 * \ln(6) * F^{\wedge -} \\
& 3^* \sin x^3 * \sqrt{3} * \pi^{\wedge -2} * L4r * m83^{\wedge -2} - 256/27 * \ln(6) * F^{\wedge -3} * \sin x^4 * \cos x * \pi^{\wedge -} \\
& 2 * L8r * m83^{\wedge -2} - 256/9 * \ln(6) * F^{\wedge -3} * \sin x^4 * \cos x * \pi^{\wedge -2} * L7r * m83^{\wedge -2} + 256/27 * \ln(6) * F^{\wedge -} \\
& 3^* \sin x^5 * \sqrt{3} * \pi^{\wedge -2} * L8r * m83^{\wedge -2} + 256/9 * \ln(6) * F^{\wedge -3} * \sin x^5 * \sqrt{3} * \pi^{\wedge -} \\
& 2 * L7r * m83^{\wedge -2} - 1/3456 * \ln(6)^{\wedge 2} * F^{\wedge -3} * \cos x * \pi^{\wedge -4} * m83^{\wedge -2} + 1/7776 * \ln(6)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + 1/324 * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -4} * m83^{\wedge -2} \\
& + 17/1944 * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^3 * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - 1/108 * \ln(6)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^4 * \cos x * \pi^{\wedge -4} * m83^{\wedge -2} - 1/108 * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^5 * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -}
\end{aligned}$$

$$\begin{aligned}
& 2 - 1/1296*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 7/1296*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 157/11664*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 19/972*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 73/2916*\ln(6)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/81*\ln(6)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 1/81*\ln(6)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} + 1856/243*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} + 1600/81*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} + 64/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} - 64/243*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} - 32/81*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} - 5248/243*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} - 5120/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} - 128/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-2} + 64/243*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-2} + 64/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-2} + 1024/81*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-2} + 1024/27*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-2} - 29/5832*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 1/54*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 16/729*\ln(8)^2*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 2/243*\ln(8)^2*F^{-3}*\sin x^8*\cos x*\pi^{-4}*m83^{-2} - 91/29160/(mass(3))^*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 4/729/(mass(3))^*\ln(3)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 97/51840/(mass(4))^*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 61/10368/(mass(4))^*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 23/10368/(mass(4))^*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 433/207360/(mass(5))^*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 61/10368/(mass(5))^*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 23/10368/(mass(5))^*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 97/51840/(mass(6))^*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 61/10368/(mass(6))^*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 23/10368/(mass(6))^*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 433/207360/(mass(7))^*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 61/10368/(mass(7))^*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 23/10368/(mass(7))^*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 329/29160/(mass(8))^*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 4/729/(mass(8))^*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1}) \\
& + \text{mkp}2^5 * (- 1/729/(mass(3))^*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 1/1296/(mass(4))^*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/1296/(mass(6))^*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/729/(mass(8))^*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2}) \\
& + \text{mpp}2 * (+ 4/3*\text{Hb}(1,1,3,\text{qext}.\text{qext})*F^{-3}*\cos x + 2/9*\text{Hb}(1,1,3,\text{qext}.\text{qext})*F^{-3}*\sin x^2*\cos x - 2/9*\text{Hb}(1,1,8,\text{qext}.\text{qext})*F^{-3}*\sin x^2*\cos x - 8/3*\text{Hb}(1,2,3,\text{plext}.\text{plext})*F^{-3}*\cos x + 8/9*\text{Hb}(1,2,3,\text{plext}.\text{plext})*F^{-3}*\sin x^2*\cos x + 4/9*\text{Hb}(1,2,3,\text{plext}.\text{plext})*F^{-3}*\sin x^4*\cos x - 4/9*\text{Hb}(1,2,8,\text{plext}.\text{plext})*F^{-3}*\sin x^4*\cos x + 5/16*\text{Hb}(1,4,6,\text{qext}.\text{qext})*F^{-3}*\cos x - 1/6*\text{Hb}(1,4,6,\text{qext}.\text{qext})*F^{-3}*\sin x*\sqrt{3} - 9/16*\text{Hb}(1,5,6,\text{plext}.\text{plext})*F^{-3}*\cos x + 2/9*\text{Hb}(1,5,6,\text{plext}.\text{plext})*F^{-3}*\sin x*\sqrt{3} + 11/12*\text{Hb}(1,5,6,\text{plext}.\text{plext})*F^{-3}*\sin x^2*\cos x - 2/9*\text{Hb}(1,5,6,\text{plext}.\text{plext})*F^{-3}*\sin x^3*\sqrt{3} + 5/16*\text{Hb}(1,5,7,\text{qext}.\text{qext})*F^{-3}*\cos x - 1/6*\text{Hb}(1,5,7,\text{qext}.\text{qext})*F^{-3}*\sin x*\sqrt{3} + 4/3*\text{Hb}(2,2,3,\text{qext}.\text{qext})*F^{-3}*\cos x + 2/9*\text{Hb}(2,2,3,\text{qext}.\text{qext})*F^{-3}*\sin x^2*\cos x - 2/9*\text{Hb}(2,2,8,\text{qext}.\text{qext})*F^{-3}*\sin x^2*\cos x - 9/16*\text{Hb}(2,4,7,\text{plext}.\text{plext})*F^{-3}*\cos x + 2/9*\text{Hb}(2,4,7,\text{plext}.\text{plext})*F^{-3}*\sin x*\sqrt{3} + 11/12*\text{Hb}(2,4,7,\text{plext}.\text{plext})*F^{-3}*\sin x^2*\cos x - 2/9*\text{Hb}(2,4,7,\text{plext}.\text{plext})*F^{-3}*\sin x^3*\sqrt{3} + 5/16*\text{Hb}(2,4,7,\text{qext}.\text{qext})*F^{-3}*\cos x - 1/6*\text{Hb}(2,4,7,\text{qext}.\text{qext})*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^3*\sqrt{3} + 1/2*H21b(8,4,5,plext.plext)*F^{-3}*\sin x^4*\cos x + 1/2*H21b(8,4,5,plext.plext)*F^{-} \\
& 3^*\sin x^5*\sqrt{3} - 9/32*H21b(8,5,5,qext.qext)*F^{-3}*\cos x + 1/32*H21b(8,5,5,qext.qext)*F^{-} \\
& 3^*\sin x*\sqrt{3} + 1/4*H21b(8,5,5,qext.qext)*F^{-3}*\sin x^2*\cos x - 9/32*H21b(8,6,6,qext.qext)*F^{-} \\
& 3^*\cos x - 1/32*H21b(8,6,6,qext.qext)*F^{-3}*\sin x*\sqrt{3} + 1/4*H21b(8,6,6,qext.qext)*F^{-} \\
& 3^*\sin x^2*\cos x + 9/16*H21b(8,6,7,plext.plext)*F^{-3}*\cos x - 3/4*H21b(8,6,7,plext.plext)*F^{-} \\
& 3^*\sin x*\sqrt{3} - H21b(8,6,7,plext.plext)*F^{-3}*\sin x^2*\cos x + 5/4*H21b(8,6,7,plext.plext)*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 1/2*H21b(8,6,7,plext.plext)*F^{-3}*\sin x^4*\cos x - 1/2*H21b(8,6,7,plext.plext)*F^{-} \\
& 3^*\sin x^5*\sqrt{3} - 9/32*H21b(8,7,7,qext.qext)*F^{-3}*\cos x - 1/32*H21b(8,7,7,qext.qext)*F^{-} \\
& 3^*\sin x*\sqrt{3} + 1/4*H21b(8,7,7,qext.qext)*F^{-3}*\sin x^2*\cos x - 10/3*HH1b(1,1,3,qext.qext)*F^{-} \\
& 3^*\cos x - 8/9*HH1b(1,1,3,qext.qext)*F^{-3}*\sin x^2*\cos x + 8/9*HH1b(1,1,8,qext.qext)*F^{-} \\
& 3^*\sin x^2*\cos x + 10/3*HH1b(1,2,3,plext.plext)*F^{-3}*\cos x - 2/3*HH1b(1,2,3,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x - 8/9*HH1b(1,2,3,plext.plext)*F^{-3}*\sin x^4*\cos x - 4/9*HH1b(1,2,8,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x + 8/9*HH1b(1,2,8,plext.plext)*F^{-3}*\sin x^4*\cos x - 1/2*HH1b(1,4,6,qext.qext)*F^{-} \\
& 3^*\cos x + 1/6*HH1b(1,4,6,qext.qext)*F^{-3}*\sin x*\sqrt{3} + HH1b(1,5,6,plext.plext)*F^{-} \\
& 3^*\cos x - 2/9*HH1b(1,5,6,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 2*HH1b(1,5,6,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x + 2/9*HH1b(1,5,6,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 1/2*HH1b(1,5,7,qext.qext)*F^{-} \\
& 3^*\cos x + 1/6*HH1b(1,5,7,qext.qext)*F^{-3}*\sin x*\sqrt{3} + 10/3*HH1b(2,1,3,plext.plext)*F^{-} \\
& 3^*\cos x - 2/3*HH1b(2,1,3,plext.plext)*F^{-3}*\sin x^2*\cos x - 8/9*HH1b(2,1,3,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x - 4/9*HH1b(2,1,8,plext.plext)*F^{-3}*\sin x^2*\cos x + 8/9*HH1b(2,1,8,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x - 10/3*HH1b(2,2,3,qext.qext)*F^{-3}*\cos x - 8/9*HH1b(2,2,3,qext.qext)*F^{-} \\
& 3^*\sin x^2*\cos x + 8/9*HH1b(2,2,8,qext.qext)*F^{-3}*\sin x^2*\cos x + HH1b(2,4,7,plext.plext)*F^{-} \\
& 3^*\cos x - 2/9*HH1b(2,4,7,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 2*HH1b(2,4,7,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x + 2/9*HH1b(2,4,7,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 1/2*HH1b(2,4,7,qext.qext)*F^{-} \\
& 3^*\cos x + 1/6*HH1b(2,4,7,qext.qext)*F^{-3}*\sin x*\sqrt{3} - 1/2*HH1b(2,5,6,qext.qext)*F^{-} \\
& 3^*\cos x + 1/6*HH1b(2,5,6,qext.qext)*F^{-3}*\sin x*\sqrt{3} + 1/6*HH1b(3,4,4,qext.qext)*F^{-} \\
& 3^*\cos x + 1/18*HH1b(3,4,4,qext.qext)*F^{-3}*\sin x*\sqrt{3} + 4/9*HH1b(3,4,4,qext.qext)*F^{-} \\
& 3^*\sin x^2*\cos x - 2/9*HH1b(3,4,4,qext.qext)*F^{-3}*\sin x^3*\sqrt{3} - 1/3*HH1b(3,4,5,plext.plext)*F^{-} \\
& 3^*\cos x - 1/9*HH1b(3,4,5,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 3*HH1b(3,4,5,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x - 1/3*HH1b(3,4,5,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + 20/9*HH1b(3,4,5,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x + 4/9*HH1b(3,4,5,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} + 1/6*HH1b(3,5,5,qext.qext)*F^{-} \\
& 3^*\cos x + 1/18*HH1b(3,5,5,qext.qext)*F^{-3}*\sin x*\sqrt{3} + 4/9*HH1b(3,5,5,qext.qext)*F^{-} \\
& 3^*\sin x^2*\cos x - 2/9*HH1b(3,5,5,qext.qext)*F^{-3}*\sin x^3*\sqrt{3} + 1/6*HH1b(3,6,6,qext.qext)*F^{-} \\
& 3^*\cos x - 1/18*HH1b(3,6,6,qext.qext)*F^{-3}*\sin x*\sqrt{3} + 4/9*HH1b(3,6,6,qext.qext)*F^{-} \\
& 3^*\sin x^2*\cos x + 2/9*HH1b(3,6,6,qext.qext)*F^{-3}*\sin x^3*\sqrt{3} - 1/3*HH1b(3,6,7,plext.plext)*F^{-} \\
& 3^*\cos x + 1/9*HH1b(3,6,7,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 3*HH1b(3,6,7,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x + 1/3*HH1b(3,6,7,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + 20/9*HH1b(3,6,7,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x - 4/9*HH1b(3,6,7,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} + 1/6*HH1b(3,7,7,qext.qext)*F^{-} \\
& 3^*\cos x - 1/18*HH1b(3,7,7,qext.qext)*F^{-3}*\sin x*\sqrt{3} + 4/9*HH1b(3,7,7,qext.qext)*F^{-} \\
& 3^*\sin x^2*\cos x + 2/9*HH1b(3,7,7,qext.qext)*F^{-3}*\sin x^3*\sqrt{3} + 1/3*HH1b(4,1,6,qext.qext)*F^{-} \\
& 3^*\sin x*\sqrt{3} - 4/9*HH1b(4,2,7,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 4/9*HH1b(4,2,7,plext.plext)*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 1/3*HH1b(4,2,7,qext.qext)*F^{-3}*\sin x*\sqrt{3} - 1/2*HH1b(4,4,8,qext.qext)*F^{-} \\
& 3^*\cos x + 7/18*HH1b(4,4,8,qext.qext)*F^{-3}*\sin x*\sqrt{3} + 8/9*HH1b(4,4,8,qext.qext)*F^{-} \\
& 3^*\sin x^2*\cos x - 4/9*HH1b(4,4,8,qext.qext)*F^{-3}*\sin x^3*\sqrt{3} + 1/2*HH1b(4,5,8,plext.plext)*F^{-} \\
& 3^*\cos x + 4/9*HH1b(4,5,8,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 22/9*HH1b(4,5,8,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x - 8/9*HH1b(4,5,8,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + 20/9*HH1b(4,5,8,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x + 4/9*HH1b(4,5,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} - 4/9*HH1b(5,1,6,plext.plext)*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\sqrt{3} + 4/9^*\text{HH1b}(5,1,6,\text{plext.plext})^*F^{-3^*\sin x^3*\sqrt{3}} + 1/3^*\text{HH1b}(5,1,7,\text{qext.qext})^*F^{-3^*\sin x^*\sqrt{3}} + 1/3^*\text{HH1b}(5,2,6,\text{qext.qext})^*F^{-3^*\sin x^*\sqrt{3}} + 1/2^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-3^*\cos x} + 4/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-3^*\sin x^*\sqrt{3}} - 22/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-3^*\sin^2*\cos x} - 8/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-3^*\sin^3*\sqrt{3}} + 20/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-3^*\sin^4*\cos x} + 4/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-3^*\sin^5*\sqrt{3}} - 1/2^*\text{HH1b}(5,5,8,\text{qext.qext})^*F^{-3^*\cos x} + 7/18^*\text{HH1b}(5,5,8,\text{qext.qext})^*F^{-3^*\sin x^*\sqrt{3}} + 8/9^*\text{HH1b}(5,5,8,\text{qext.qext})^*F^{-3^*\sin^2*\cos x} - 4/9^*\text{HH1b}(5,5,8,\text{qext.qext})^*F^{-3^*\sin^3*\sqrt{3}} - 1/2^*\text{HH1b}(6,6,8,\text{qext.qext})^*F^{-3^*\cos x} - 7/18^*\text{HH1b}(6,6,8,\text{qext.qext})^*F^{-3^*\sin x^*\sqrt{3}} + 8/9^*\text{HH1b}(6,6,8,\text{qext.qext})^*F^{-3^*\sin^2*\cos x} + 4/9^*\text{HH1b}(6,6,8,\text{qext.qext})^*F^{-3^*\sin^3*\sqrt{3}} + 1/2^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*\cos x} - 4/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*\sin x^*\sqrt{3}} - 22/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*\sin^2*\cos x} + 8/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*\sin^3*\sqrt{3}} + 20/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*\sin^4*\cos x} - 4/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*\sin^5*\sqrt{3}} + 1/2^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*\cos x} - 4/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*\sin x^*\sqrt{3}} - 22/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*\sin^2*\cos x} + 8/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*\sin^3*\sqrt{3}} + 20/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*\sin^4*\cos x} - 4/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*\sin^5*\sqrt{3}} - 1/2^*\text{HH1b}(7,7,8,\text{qext.qext})^*F^{-3^*\cos x} - 7/18^*\text{HH1b}(7,7,8,\text{qext.qext})^*F^{-3^*\sin x^*\sqrt{3}} + 8/9^*\text{HH1b}(7,7,8,\text{qext.qext})^*F^{-3^*\sin^2*\cos x} + 4/9^*\text{HH1b}(7,7,8,\text{qext.qext})^*F^{-3^*\sin^3*\sqrt{3}}) \\
& + \text{mpp2}^*\text{mkp2} * (- 5/8192^*F^{-3^*\cos x^*\pi^{-4}} + 1/36864^*F^{-3^*\cos x^*\pi^{-2}} - 5/2^*F^{-3^*\cos x^*\pi^{-2}}*L6r + 5/4^*F^{-3^*\cos x^*\pi^{-2}}*L4r + 1/54^*F^{-3^*\cos x^*\pi^{-2}}*L3r + 1/18^*F^{-3^*\cos x^*\pi^{-2}}*L2r - 32^*F^{-3^*\cos x^*L4r^2} - 32^*F^{-3^*\cos x^*L4r^2} - 32^*F^{-3^*\cos x^*CC16} + 16^*F^{-3^*\cos x^*CC15} - 89/34560^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} - 7/6480^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}} + 8/9^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}}*L8r - 4/9^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}}*L5r - 1/9^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}}*L3r + 512/3^*F^{-3^*\sin x^2*\cos x^*CC18} + 512/9^*F^{-3^*\sin x^2*\cos x^*CC17} + 512/9^*F^{-3^*\sin x^2*\cos x^*CC14} + 125/7776^*C^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} + 16/9^*C^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}}*L8r - 16/9^*C^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}}*L5r - 23/4320^*C^2^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} + 1/720^*C^*\ln(1)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} + 1/160^*C^*\ln(3)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} + 1/240^*C^*\ln(3)^*F^{-3^*\sin x^4*\cos x^*\pi^{-4}} + 13/34560^*C^*\ln(4)^*F^{-3^*\sin x^*\sqrt{3}^*\pi^{-4}} + 11/2880^*C^*\ln(4)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} + 1/4320^*C^*\ln(4)^*F^{-3^*\sin x^3*\sqrt{3}^*\pi^{-4}} - 13/34560^*C^*\ln(6)^*F^{-3^*\sin x^*\sqrt{3}^*\pi^{-4}} + 11/2880^*C^*\ln(6)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} - 1/4320^*C^*\ln(6)^*F^{-3^*\sin x^3*\sqrt{3}^*\pi^{-4}} + 1/96^*C^*\ln(8)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} - 1/240^*C^*\ln(8)^*F^{-3^*\sin x^4*\cos x^*\pi^{-4}} + 1/512^*\ln(1)^*F^{-3^*\cos x^*\pi^{-4}} - 2^*\ln(1)^*F^{-3^*\cos x^*\pi^{-2}}*L6r + 3/2^*\ln(1)^*F^{-3^*\cos x^*\pi^{-2}}*L4r + 1/1536^*\ln(1)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} - 2/3^*\ln(1)^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}}*L6r - 1/18^*\ln(1)^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}}*L5r + 1/2^*\ln(1)^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}}*L4r + 67/34560^*\ln(1)^*\ln(3)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} - 1/8640^*\ln(1)^*\ln(3)^*F^{-3^*\sin x^4*\cos x^*\pi^{-4}} - 77/138240^*\ln(1)^*\ln(4)^*F^{-3^*\sin x^*\sqrt{3}^*\pi^{-4}} + 7/11520^*\ln(1)^*\ln(4)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} + 1/17280^*\ln(1)^*\ln(4)^*F^{-3^*\sin x^3*\sqrt{3}^*\pi^{-4}} + 1/1152^*\ln(1)^*\ln(4)^*F^{-3^*\sin x^5*\sqrt{3}^*\pi^{-4}} + 77/138240^*\ln(1)^*\ln(6)^*F^{-3^*\sin x^*\sqrt{3}^*\pi^{-4}} + 7/11520^*\ln(1)^*\ln(6)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} - 1/17280^*\ln(1)^*\ln(6)^*F^{-3^*\sin x^3*\sqrt{3}^*\pi^{-4}} - 1/1152^*\ln(1)^*\ln(6)^*F^{-3^*\sin x^5*\sqrt{3}^*\pi^{-4}} + 1/1152^*\ln(1)^*\ln(8)^*F^{-3^*\cos x^*\pi^{-4}} - 19/11520^*\ln(1)^*\ln(8)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} + 1/8640^*\ln(1)^*\ln(8)^*F^{-3^*\sin x^4*\cos x^*\pi^{-4}} + 1/576^*\ln(3)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} - 8/27^*\ln(3)^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}}*L5r + 1/1728^*\ln(3)^*F^{-3^*\sin x^4*\cos x^*\pi^{-4}}
\end{aligned}$$

$$\begin{aligned}
& 4 - 4/27*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r + 83/414720*\ln(3)*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 43/69120*\ln(3)*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 11/69120*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/25920*\ln(3)*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} - 83/414720*\ln(3)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 43/69120*\ln(3)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 11/69120*\ln(3)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/25920*\ln(3)*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 1/4096*\ln(4)*F^{-3}*\cos x*\pi^{-4} - 1/4*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L6r - 1/16*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L5r + 3/16*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L4r + 5/9216*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 2/9*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r - 1/54*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r + 1/6*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r - 3/1024*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 4/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r + 1/3*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r - 7/36*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r - 1/4*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r - 1/3*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r + 1/9216*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/9*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r - 1/108*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r + 1/12*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r + 5/13824*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 47/34560*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/13824*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/2304*\ln(4)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 1/2304*\ln(4)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 1/8640*\ln(4)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/1152*\ln(4)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 1/9216*\ln(4)*\ln(8)*F^{-3}*\cos x*\pi^{-4} - 43/414720*\ln(4)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 17/69120*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 43/207360*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/25920*\ln(4)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 1/4096*\ln(6)*F^{-3}*\cos x*\pi^{-4} - 1/4*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L6r - 1/16*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L5r + 3/16*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L4r - 5/9216*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 2/9*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r + 1/54*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r - 1/6*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r - 3/1024*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 4/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r + 1/3*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r - 7/36*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r - 1/4*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r - 1/3*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r - 1/9216*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/9*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r + 1/108*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r - 1/12*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r - 5/13824*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 47/34560*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/13824*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/2304*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 1/2304*\ln(6)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 1/9216*\ln(6)*\ln(8)*F^{-3}*\cos x*\pi^{-4} + 43/414720*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 17/69120*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 43/207360*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/25920*\ln(6)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 5/4608*\ln(8)*F^{-3}*\cos x*\pi^{-4} - 1/18*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L5r + 2/9*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L4r - 1/9*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L3r - 1/9*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L2r - 4/9*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L1r + 1/1728*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 8/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r - 1/1728*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 4/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r + 80/27*Hb(1,2,3,p1ext.p1ext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 16/9*Hb(1,2,3,p1ext.p1ext)*F^{-3}*\sin x^4*\cos x*m83^{-1} + 20/9*Hb(1,2,3,1,p1ext.p1ext)*F^{-3}*\sin x^2*\cos x - 8/9*Hb(1,2,3,1,p1ext.p1ext)*F^{-3}*\sin x^4*\cos x - 80/27*Hb(1,2,8,p1ext.p1ext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 16/9*Hb(1,2,8,p1ext.p1ext)*F^{-3}*\sin x^4*\cos x*m83^{-1} - 20/9*Hb(1,2,8,1,p1ext.p1ext)*F^{-3}*\sin x^2*\cos x + 8/9*Hb(1,2,8,1,p1ext.p1ext)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^4*\cos x - 2/3^*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}^*m83^{-1} - \\
& 13/9^*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3}*\sin x^2*\cos x^*m83^{-1} - 13/18^*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x \\
& - 2/3^*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}^*m83^{-1} - \\
& 13/9^*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x^*m83^{-1} - 13/18^*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x \\
& - 2/3^*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3}*\sin x^2*\cos x^*m83^{-1} + \\
& 4/9^*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3}*\sin x^4*\cos x^*m83^{-1} - 5/9^*\text{Hb}(3,1,2,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x \\
& + 2/9^*\text{Hb}(3,1,2,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 104/243^*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3}*\sin x^2*\cos x^*m83^{-1} \\
& - 560/243^*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3}*\sin x^4*\cos x^*m83^{-1} + 512/81^*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3}*\sin x^6*\cos x^*m83^{-1} \\
& - 1024/243^*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3}*\sin x^8*\cos x^*m83^{-1} - 16/243^*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x \\
& - 208/81^*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 1024/243^*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sin x^6*\cos x \\
& - 512/243^*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sin x^8*\cos x + 8/81^*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x^*m83^{-1} \\
& + 496/81^*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x^*m83^{-1} - 512/27^*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin x^6*\cos x^*m83^{-1} \\
& + 1024/81^*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin x^8*\cos x^*m83^{-1} - 64/81^*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x \\
& + 64/9^*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 1024/81^*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3}*\sin x^6*\cos x \\
& + 512/81^*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3}*\sin x^8*\cos x + 73/162^*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}^*m83^{-1} \\
& - 35/27^*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^2*\cos x^*m83^{-1} + 82/81^*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}^*m83^{-1} \\
& - 1 + 2/27^*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^4*\cos x^*m83^{-1} - 10/9^*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}^*m83^{-1} \\
& - 2/27^*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 11/18^*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 17/27^*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} \\
& + 1/27^*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 5/9^*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} - 73/162^*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}^*m83^{-1} \\
& - 35/27^*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x^*m83^{-1} - 82/81^*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}^*m83^{-1} \\
& + 2/27^*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^4*\cos x^*m83^{-1} + 10/9^*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}^*m83^{-1} \\
& + 2/27^*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 17/27^*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + 1/27^*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x \\
& + 5/9^*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} - 8/81^*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x^*m83^{-1} - 496/81^*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x^*m83^{-1} \\
& + 512/27^*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x^6*\cos x^*m83^{-1} - 1024/81^*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x^8*\cos x^*m83^{-1} + 16/27^*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 560/81^*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x \\
& + 1024/81^*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin x^6*\cos x - 512/81^*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin x^8*\cos x - 7/72^*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}^*m83^{-1} \\
& - 1/6^*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x^*m83^{-1} + 1/18^*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}^*m83^{-1} + 1/8^*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\cos x \\
& - 1/36^*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/12^*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/36^*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 26/81^*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}^*m83^{-1} \\
& - 40/27^*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x^*m83^{-1} + 20/81^*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}^*m83^{-1} - 56/27^*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x^*m83^{-1} \\
& + 8/27^*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}^*m83^{-1} - 2/27^*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 4/27^*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} \\
& - 28/27^*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 4/27^*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} - 7/72^*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}^*m83^{-1} - 1/6^*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin x^2*\cos x^*m83^{-1} \\
& + 1/18^*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}^*m83^{-1} + 1/18^*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin x^4*\cos x^*m83^{-1} - 1/18^*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}^*m83^{-1} \\
& - 1/6^*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x^6*\cos x^*m83^{-1} + 1/18^*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x^7*\sqrt{3}^*m83^{-1} - 1/6^*\text{Hb}(5,1,6,1,1,\text{plext.plext})*F^{-3}*\sin x^8*\cos x^*m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin^3*\sqrt{3}*m83^{-1} + 1/8*\text{Hb}(5,1,6,1,\text{p1ext.p1ext})*F^{-3}*\cos x - 1/36*\text{Hb}(5,1,6,1,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3} - 1/12*\text{Hb}(5,1,6,1,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x + 1/36*\text{Hb}(5,1,6,1,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3} + 7/72*\text{Hb}(6,1,5,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 1/6*\text{Hb}(6,1,5,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x*m83^{-1} - 1/18*\text{Hb}(6,1,5,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 1/8*\text{Hb}(6,1,5,1,\text{p1ext.p1ext})*F^{-3}*\cos x + 1/36*\text{Hb}(6,1,5,1,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3} - 1/12*\text{Hb}(6,1,5,1,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x - 1/36*\text{Hb}(6,1,5,1,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3} + 26/81*\text{Hb}(6,7,8,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 40/27*\text{Hb}(6,7,8,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x*m83^{-1} - 20/81*\text{Hb}(6,7,8,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 56/27*\text{Hb}(6,7,8,\text{p1ext.p1ext})*F^{-3}*\sin^4*\cos x*m83^{-1} - 1 - 8/27*\text{Hb}(6,7,8,\text{p1ext.p1ext})*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} - 2/27*\text{Hb}(6,7,8,1,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x + 4/27*\text{Hb}(6,7,8,1,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3} - 28/27*\text{Hb}(6,7,8,1,\text{p1ext.p1ext})*F^{-3}*\sin^4*\cos x - 4/27*\text{Hb}(6,7,8,1,\text{p1ext.p1ext})*F^{-3}*\sin^5*\sqrt{3} + 7/72*\text{Hb}(7,2,4,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 1/6*\text{Hb}(7,2,4,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x*m83^{-1} - 1/18*\text{Hb}(7,2,4,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 1/8*\text{Hb}(7,2,4,1,\text{p1ext.p1ext})*F^{-3}*\cos x + 1/36*\text{Hb}(7,2,4,1,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3} - 1/12*\text{Hb}(7,2,4,1,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x - 1/36*\text{Hb}(7,2,4,1,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3} - 4/9*\text{Hb}(8,1,2,\text{p1ext.p1ext})*F^{-3}*\sin^4*\cos x*m83^{-1} + 2/9*\text{Hb}(8,1,2,1,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x - 2/9*\text{Hb}(8,1,2,1,\text{p1ext.p1ext})*F^{-3}*\sin^4*\cos x + 1/36*\text{Hb}(8,4,5,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 1/3*\text{Hb}(8,4,5,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 2/9*\text{Hb}(8,4,5,\text{p1ext.p1ext})*F^{-3}*\sin^4*\cos x*m83^{-1} + 1/8*\text{Hb}(8,4,5,1,\text{p1ext.p1ext})*F^{-3}*\cos x + 1/18*\text{Hb}(8,4,5,1,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3} - 1/9*\text{Hb}(8,4,5,1,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x - 1/6*\text{Hb}(8,4,5,1,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3} + 1/9*\text{Hb}(8,4,5,1,\text{p1ext.p1ext})*F^{-3}*\sin^4*\cos x + 1/9*\text{Hb}(8,4,5,1,\text{p1ext.p1ext})*F^{-3}*\sin^5*\sqrt{3} - 1/36*\text{Hb}(8,6,7,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 1/3*\text{Hb}(8,6,7,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 2/9*\text{Hb}(8,6,7,\text{p1ext.p1ext})*F^{-3}*\sin^4*\cos x*m83^{-1} - 2/9*\text{Hb}(8,6,7,\text{p1ext.p1ext})*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} + 1/8*\text{Hb}(8,6,7,1,\text{p1ext.p1ext})*F^{-3}*\cos x - 1/18*\text{Hb}(8,6,7,1,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3} - 1/9*\text{Hb}(8,6,7,1,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x + 1/6*\text{Hb}(8,6,7,1,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3} + 1/9*\text{Hb}(8,6,7,1,\text{p1ext.p1ext})*F^{-3}*\sin^4*\cos x - 1/9*\text{Hb}(8,6,7,1,\text{p1ext.p1ext})*F^{-3}*\sin^5*\sqrt{3} - 152/243*\text{Hb}(8,8,8,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x*m83^{-1} + 560/243*\text{Hb}(8,8,8,\text{p1ext.p1ext})*F^{-3}*\sin^4*\cos x*m83^{-1} - 512/81*\text{Hb}(8,8,8,\text{p1ext.p1ext})*F^{-3}*\sin^6*\cos x*m83^{-1} + 1024/243*\text{Hb}(8,8,8,\text{p1ext.p1ext})*F^{-3}*\sin^8*\cos x*m83^{-1} - 1 - 64/243*\text{Hb}(8,8,8,1,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x + 64/27*\text{Hb}(8,8,8,1,\text{p1ext.p1ext})*F^{-3}*\sin^4*\cos x - 1024/243*\text{Hb}(8,8,8,1,\text{p1ext.p1ext})*F^{-3}*\sin^6*\cos x + 512/243*\text{Hb}(8,8,8,1,\text{p1ext.p1ext})*F^{-3}*\sin^8*\cos x + 2/3*\text{H21b}(1,5,6,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x*m83^{-1} + 1/3*\text{H21b}(1,5,6,1,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x + 2/3*\text{H21b}(2,4,7,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x*m83^{-1} + 1/3*\text{H21b}(2,4,7,1,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x - 2*\text{H21b}(3,1,2,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x*m83^{-1} + 4/3*\text{H21b}(3,1,2,\text{p1ext.p1ext})*F^{-3}*\sin^4*\cos x*m83^{-1} - 5/3*\text{H21b}(3,1,2,1,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x + 2/3*\text{H21b}(3,1,2,1,\text{p1ext.p1ext})*F^{-3}*\sin^4*\cos x + 1/2*\text{H21b}(3,4,5,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + \text{H21b}(3,4,5,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x*m83^{-1} + 2/3*\text{H21b}(3,4,5,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 2/3*\text{H21b}(3,4,5,\text{p1ext.p1ext})*F^{-3}*\sin^4*\cos x*m83^{-1} - 2/3*\text{H21b}(3,4,5,\text{p1ext.p1ext})*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} - 1 + 5/6*\text{H21b}(3,4,5,1,\text{p1ext.p1ext})*F^{-3}*\sin^2*\cos x + 1/3*\text{H21b}(3,4,5,1,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3} - 1/3*\text{H21b}(3,4,5,1,\text{p1ext.p1ext})*F^{-3}*\sin^4*\cos x - 1/3*\text{H21b}(3,4,5,1,\text{p1ext.p1ext})*F^{-3}*\sin^5*\sqrt{3} - 1/2*\text{H21b}(3,6,7,\text{p1ext.p1ext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} +
\end{aligned}$$

$$\begin{aligned}
& H21b(3,6,7,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} - 2/3*H21b(3,6,7,plext.plect)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} - 2/3*H21b(3,6,7,plext.plect)*F^{-3*\sin x^4*\cos x*m83^{-1}} \\
& + 1/2/3*H21b(3,6,7,plext.plect)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} + 5/6*H21b(3,6,7,1,plext.plect)*F^{-3*\sin x^2*\cos x} - 1/3*H21b(3,6,7,1,plext.plect)*F^{-3*\sin x^3*\sqrt{3}} - 1/3*H21b(3,6,7,1,plext.plect)*F^{-3*\sin x^4*\cos x} + 1/3*H21b(3,6,7,1,plext.plect)*F^{-3*\sin x^5*\sqrt{3}} - 2/3*H21b(4,2,7,plext.plect)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - 1/3*H21b(4,2,7,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} \\
& + 1/3*H21b(4,2,7,plext.plect)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} - 1/6*H21b(4,2,7,1,plext.plect)*F^{-3*\sin x*\sqrt{3}} - 1/6*H21b(4,2,7,1,plext.plect)*F^{-3*\sin x^2*\cos x} + 1/6*H21b(4,2,7,1,plext.plect)*F^{-3*\sin x^3*\sqrt{3}} - 2/3*H21b(5,1,6,plext.plect)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - 1/3*H21b(5,1,6,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} + 1/3*H21b(5,1,6,plext.plect)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} - 1/6*H21b(5,1,6,1,plext.plect)*F^{-3*\sin x*\sqrt{3}} - 1/6*H21b(5,1,6,1,plext.plect)*F^{-3*\sin x^2*\cos x} + 1/6*H21b(5,1,6,1,plext.plect)*F^{-3*\sin x^3*\sqrt{3}} + 2/3*H21b(6,1,5,plext.plect)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - 1/3*H21b(6,1,5,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} - 1/3*H21b(6,1,5,plext.plect)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 1/6*H21b(6,1,5,1,plext.plect)*F^{-3*\sin x*\sqrt{3}} - 1/6*H21b(6,1,5,1,plext.plect)*F^{-3*\sin x^2*\cos x} - 1/6*H21b(6,1,5,1,plext.plect)*F^{-3*\sin x^3*\sqrt{3}} + 2/3*H21b(7,2,4,plext.plect)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - 1/3*H21b(7,2,4,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} - 1/3*H21b(7,2,4,plext.plect)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 1/6*H21b(7,2,4,1,plext.plect)*F^{-3*\sin x*\sqrt{3}} - 1/6*H21b(7,2,4,1,plext.plect)*F^{-3*\sin x^2*\cos x} - 1/6*H21b(7,2,4,1,plext.plect)*F^{-3*\sin x^3*\sqrt{3}} + 2/3*H21b(8,1,2,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} - 4/3*H21b(8,1,2,plext.plect)*F^{-3*\sin x^4*\cos x*m83^{-1}} + H21b(8,1,2,1,plext.plect)*F^{-3*\sin x^2*\cos x} - 2/3*H21b(8,1,2,1,plext.plect)*F^{-3*\sin x^4*\cos x} + 5/6*H21b(8,4,5,plext.plect)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - 1/3*H21b(8,4,5,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} - 4/3*H21b(8,4,5,plext.plect)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 2/3*H21b(8,4,5,plext.plect)*F^{-3*\sin x^4*\cos x*m83^{-1}} + 2/3*H21b(8,4,5,plext.plect)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} + 1/3*H21b(8,4,5,1,plext.plect)*F^{-3*\sin x*\sqrt{3}} - 1/2*H21b(8,4,5,1,plext.plect)*F^{-3*\sin x^2*\cos x} - 2/3*H21b(8,4,5,1,plext.plect)*F^{-3*\sin x^3*\sqrt{3}} + 1/3*H21b(8,4,5,1,plext.plect)*F^{-3*\sin x^4*\cos x} + 1/3*H21b(8,4,5,1,plext.plect)*F^{-3*\sin x^5*\sqrt{3}} - 5/6*H21b(8,6,7,plext.plect)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - 1/3*H21b(8,6,7,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} + 4/3*H21b(8,6,7,plext.plect)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 2/3*H21b(8,6,7,plext.plect)*F^{-3*\sin x^4*\cos x*m83^{-1}} - 2/3*H21b(8,6,7,plext.plect)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} - 1/3*H21b(8,6,7,1,plext.plect)*F^{-3*\sin x*\sqrt{3}} - 1/2*H21b(8,6,7,1,plext.plect)*F^{-3*\sin x^2*\cos x} + 2/3*H21b(8,6,7,1,plext.plect)*F^{-3*\sin x^3*\sqrt{3}} + 1/3*H21b(8,6,7,1,plext.plect)*F^{-3*\sin x^4*\cos x} - 1/3*H21b(8,6,7,1,plext.plect)*F^{-3*\sin x^5*\sqrt{3}} - 104/27*HH1b(1,2,3,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} - 20/9*HH1b(1,2,3,1,plext.plect)*F^{-3*\sin x^2*\cos x} + 56/27*HH1b(1,2,8,plext.plect)*F^{-3*\sin x^2*\cos x} + 2/3*HH1b(1,5,6,plext.plect)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - 16/9*HH1b(1,5,6,plext.plect)*F^{-3*\sin x^2*\cos x} - 8/9*HH1b(1,5,6,1,plext.plect)*F^{-3*\sin x^2*\cos x} - 104/27*HH1b(2,1,3,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} - 20/9*HH1b(2,1,3,1,plext.plect)*F^{-3*\sin x^2*\cos x} + 56/27*HH1b(2,1,8,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} + 4/3*HH1b(2,1,8,1,plext.plect)*F^{-3*\sin x^2*\cos x} + 2/3*HH1b(2,4,7,plext.plect)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - 16/9*HH1b(2,4,7,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}} - 8/9*HH1b(2,4,7,1,plext.plect)*F^{-3*\sin x^2*\cos x} - 25/27*HH1b(3,4,5,plext.plect)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 20/27*HH1b(3,4,5,plext.plect)*F^{-3*\sin x^2*\cos x*m83^{-1}}
\end{aligned}$$

$$\begin{aligned}
& 1 - 4/9*HH1b(3,4,5,plext.plext)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 16/9*HH1b(3,4,5,plext.plext)*F^{-3*\sin x^4*\cos x*m83^{-1}} + 16/27*HH1b(3,4,5,plext.plext)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} \\
& - 2/9*HH1b(3,4,5,1,plext.plext)*F^{-3*\sin x*\sqrt{3}} - 2/9*HH1b(3,4,5,1,plext.plext)*F^{-3*\sin x^2*\cos x} - 2/27*HH1b(3,4,5,1,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} + 8/9*HH1b(3,4,5,1,plext.plext)*F^{-3*\sin x^4*\cos x} + 8/27*HH1b(3,4,5,1,plext.plext)*F^{-3*\sin x^5*\sqrt{3}} + 25/27*HH1b(3,6,7,plext.plext)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 20/27*HH1b(3,6,7,plext.plext)*F^{-3*\sin x^2*\cos x*m83^{-1}} + 4/9*HH1b(3,6,7,plext.plext)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 16/9*HH1b(3,6,7,plext.plext)*F^{-3*\sin x^4*\cos x*m83^{-1}} - 16/27*HH1b(3,6,7,plext.plext)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} + 2/9*HH1b(3,6,7,1,plext.plext)*F^{-3*\sin x*\sqrt{3}} - 2/9*HH1b(3,6,7,1,plext.plext)*F^{-3*\sin x^2*\cos x} + 2/27*HH1b(3,6,7,1,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} + 8/9*HH1b(3,6,7,1,plext.plext)*F^{-3*\sin x^4*\cos x} - 8/27*HH1b(3,6,7,1,plext.plext)*F^{-3*\sin x^5*\sqrt{3}} + 4/3*HH1b(4,2,7,plext.plext)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 13/27*HH1b(4,5,8,plext.plext)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 44/27*HH1b(4,5,8,plext.plext)*F^{-3*\sin x^2*\cos x*m83^{-1}} - 4/3*HH1b(4,5,8,plext.plext)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 16/9*HH1b(4,5,8,plext.plext)*F^{-3*\sin x^4*\cos x*m83^{-1}} + 16/27*HH1b(4,5,8,plext.plext)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} + 2/9*HH1b(4,5,8,1,plext.plext)*F^{-3*\sin x*\sqrt{3}} + 2/9*HH1b(4,5,8,1,plext.plext)*F^{-3*\sin x^2*\cos x} - 14/27*HH1b(4,5,8,1,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} + 8/9*HH1b(4,5,8,1,plext.plext)*F^{-3*\sin x^4*\cos x} + 8/27*HH1b(4,5,8,1,plext.plext)*F^{-3*\sin x^5*\sqrt{3}} + 4/3*HH1b(5,1,6,plext.plext)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 13/27*HH1b(5,4,8,plext.plext)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 44/27*HH1b(5,4,8,plext.plext)*F^{-3*\sin x^2*\cos x*m83^{-1}} - 4/3*HH1b(5,4,8,plext.plext)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 16/9*HH1b(5,4,8,plext.plext)*F^{-3*\sin x^4*\cos x*m83^{-1}} + 16/27*HH1b(5,4,8,plext.plext)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} + 2/9*HH1b(5,4,8,1,plext.plext)*F^{-3*\sin x*\sqrt{3}} + 2/9*HH1b(5,4,8,1,plext.plext)*F^{-3*\sin x^2*\cos x} - 14/27*HH1b(5,4,8,1,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} + 8/9*HH1b(5,4,8,1,plext.plext)*F^{-3*\sin x^4*\cos x} + 8/27*HH1b(5,4,8,1,plext.plext)*F^{-3*\sin x^5*\sqrt{3}} - 13/27*HH1b(6,7,8,plext.plext)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 44/27*HH1b(6,7,8,plext.plext)*F^{-3*\sin x^2*\cos x*m83^{-1}} + 4/3*HH1b(6,7,8,plext.plext)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 16/9*HH1b(6,7,8,plext.plext)*F^{-3*\sin x^4*\cos x*m83^{-1}} - 16/27*HH1b(6,7,8,plext.plext)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} - 2/9*HH1b(6,7,8,1,plext.plext)*F^{-3*\sin x*\sqrt{3}} + 2/9*HH1b(6,7,8,1,plext.plext)*F^{-3*\sin x^2*\cos x} + 14/27*HH1b(6,7,8,1,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} + 8/9*HH1b(6,7,8,1,plext.plext)*F^{-3*\sin x^4*\cos x} - 8/27*HH1b(6,7,8,1,plext.plext)*F^{-3*\sin x^5*\sqrt{3}} - 13/27*HH1b(7,6,8,plext.plext)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 44/27*HH1b(7,6,8,plext.plext)*F^{-3*\sin x^2*\cos x*m83^{-1}} + 4/3*HH1b(7,6,8,plext.plext)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 16/9*HH1b(7,6,8,plext.plext)*F^{-3*\sin x^4*\cos x*m83^{-1}} - 16/27*HH1b(7,6,8,plext.plext)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} - 2/9*HH1b(7,6,8,1,plext.plext)*F^{-3*\sin x*\sqrt{3}} + 2/9*HH1b(7,6,8,1,plext.plext)*F^{-3*\sin x^2*\cos x} + 14/27*HH1b(7,6,8,1,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} + 8/9*HH1b(7,6,8,1,plext.plext)*F^{-3*\sin x^4*\cos x} - 8/27*HH1b(7,6,8,1,plext.plext)*F^{-3*\sin x^5*\sqrt{3}}) \\
& + mpp2*mkp2^2 * (+ 1253/20736*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + 293/31104*F^{-3*\sin x^2*\cos x*\pi^{-2}*m83^{-1}} + 80/9*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1}} + 32/9*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1}} + 80/9*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1}} - 104/27*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1}} - 40/9*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1}} - 1/9*F^{-3*\sin x^2*\cos x*\pi^{-2}*L3r*m83^{-1}} - 2048/9*F^{-3*\sin x^2*\cos x*L5r*L8r*m83^{-1}} - 2048/3*F^{-3*\sin x^2*\cos x*L5r*L8r*m83^{-1}})
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^2 * \cos x * L5r * L7r * m83^{-1} - 2048/3 * F^{-3} * \sin x^2 * \cos x * L4r * L8r * m83^{-1} - \\
& 2048 * F^{-3} * \sin x^2 * \cos x * L4r * L7r * m83^{-1} - 2048/3 * F^{-3} * \sin x^2 * \cos x * CC33 * m83^{-1} - \\
& 1024/3 * F^{-3} * \sin x^2 * \cos x * CC32 * m83^{-1} - 1024/3 * F^{-3} * \sin x^2 * \cos x * CC31 * m83^{-1} - \\
& 1024/3 * F^{-3} * \sin x^2 * \cos x * CC20 * m83^{-1} - 512 * F^{-3} * \sin x^2 * \cos x * CC19 * m83^{-1} + \\
& 512/3 * F^{-3} * \sin x^2 * \cos x * CC18 * m83^{-1} + 512/9 * F^{-3} * \sin x^2 * \cos x * CC17 * m83^{-1} + \\
& 512/9 * F^{-3} * \sin x^2 * \cos x * CC14 * m83^{-1} + 64/9 * C * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * \\
& L8r * m83^{-1} + 64/3 * C * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-1} + 13/2160 * C * \ln(3) * F^{-3} * \\
& \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 61/34560 * C * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} - \\
& 1/144 * C * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 1/432 * C * \ln(4) * F^{-3} * \\
& \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 61/34560 * C * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} - \\
& 1/144 * C * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 1/432 * C * \ln(6) * F^{-3} * \\
& \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 11/720 * C * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + \\
& 17/5184 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 8/9 * \ln(1) * F^{-3} * \sin x^2 * \\
& \cos x * \pi^{-2} * L8r * m38^{-1} - 56/27 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-1} - \\
& 32/9 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m38^{-1} - 64/9 * \ln(1) * F^{-3} * \sin x^2 * \\
& \cos x * \pi^{-2} * L7r * m83^{-1} + 8/9 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m38^{-1} + \\
& 8/9 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-1} - 4/27 * \ln(1) * F^{-3} * \sin x^2 * \\
& \cos x * \pi^{-2} * L5r * m38^{-1} - 4/27 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-1} - \\
& 4/9 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m38^{-1} - 4/9 * \ln(1) * F^{-3} * \sin x^2 * \\
& \cos x * \pi^{-2} * L4r * m83^{-1} - 1/324 * \ln(1) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + \\
& 64/27 * \ln(1) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m38^{-1} - 32/9 * \ln(1) * F^{-3} * \sin x^4 * \\
& \cos x * \pi^{-2} * L8r * m83^{-1} + 64/9 * \ln(1) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m38^{-1} - \\
& 32/3 * \ln(1) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-1} + 91/51840 * \ln(1) * \ln(3) * F^{-3} * \\
& \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 1/648 * \ln(1) * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m38^{-1} - \\
& 11/1296 * \ln(1) * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} - 1/324 * \ln(1) * \ln(3) * F^{-3} * \\
& \sin x^6 * \cos x * \pi^{-4} * m38^{-1} + 5/648 * \ln(1) * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} + \\
& 1/1728 * \ln(1) * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m38^{-1} + 101/103680 * \ln(1) * \ln(4) * F^{-3} * \\
& \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/576 * \ln(1) * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m38^{-1} + \\
& 1/3456 * \ln(1) * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 1/576 * \ln(1) * \ln(4) * F^{-3} * \\
& \sin x^3 * \sqrt{3} * \pi^{-4} * m38^{-1} - 29/10368 * \ln(1) * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - \\
& 1/432 * \ln(1) * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m38^{-1} + 1/288 * \ln(1) * \ln(4) * F^{-3} * \\
& \sin x^4 * \cos x * \pi^{-4} * m83^{-1} - 1/432 * \ln(1) * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m38^{-1} + \\
& 1/1728 * \ln(1) * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} - 1/1728 * \ln(1) * \ln(6) * F^{-3} * \\
& \sin x * \sqrt{3} * \pi^{-4} * m38^{-1} - 101/103680 * \ln(1) * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + \\
& 1/576 * \ln(1) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m38^{-1} + 1/3456 * \ln(1) * \ln(6) * F^{-3} * \\
& \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 1/576 * \ln(1) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m38^{-1} + \\
& 29/10368 * \ln(1) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 1/432 * \ln(1) * \ln(6) * F^{-3} * \\
& \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 1/288 * \ln(1) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m38^{-1} + \\
& 1/432 * \ln(1) * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m38^{-1} - 1/288 * \ln(1) * \ln(6) * F^{-3} * \\
& \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/1296 * \ln(1) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m38^{-1} - \\
& 151/51840 * \ln(1) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 1/216 * \ln(1) * \ln(8) * F^{-3} * \\
& \sin x^4 * \cos x * \pi^{-4} * m38^{-1} + 17/1296 * \ln(1) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + \\
& 1/324 * \ln(1) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m38^{-1} - 5/648 * \ln(1) * \ln(8) * F^{-3} * \\
& \sin x^6 * \cos x * \pi^{-4} * m83^{-1} + 5/1296 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-1} + \\
& 320/27 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-1} + 64/3 * \ln(3) * F^{-3} * \sin x^2 * \\
& \cos x * \pi^{-2} * L7r * m83^{-1} + 32/9 * \ln(3) * F^{-3} *
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-1} - 8/3 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-1} \\
& - 4/3 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-1} + 512/27 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-1} \\
& + 512/9 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-1} - 512/27 * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L8r * m83^{-1} \\
& - 512/9 * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L7r * m83^{-1} - 35/6912 * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} \\
& - 1/144 * \ln(3)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} - 7/1296 * \ln(3)^2 * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} \\
& + 1/81 * \ln(3)^2 * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-1} + 19/20736 * \ln(3) * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m38^{-1} \\
& + 65/20736 * \ln(3) * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 647/103680 * \ln(3) * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} \\
& - 5/2592 * \ln(3) * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m38^{-1} + 13/2304 * \ln(3) * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} \\
& - 1/1296 * \ln(3) * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m38^{-1} - 37/2592 * \ln(3) * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} \\
& - 7/648 * \ln(3) * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/648 * \ln(3) * \ln(4) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m38^{-1} \\
& + 19/1296 * \ln(3) * \ln(4) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} + 1/648 * \ln(3) * \ln(4) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m38^{-1} \\
& + 1/432 * \ln(3) * \ln(4) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-1} - 19/20736 * \ln(3) * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m38^{-1} \\
& - 65/20736 * \ln(3) * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 647/103680 * \ln(3) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} \\
& + 5/2592 * \ln(3) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m38^{-1} - 13/2304 * \ln(3) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} \\
& - 1/1296 * \ln(3) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m38^{-1} - 37/2592 * \ln(3) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} \\
& + 7/648 * \ln(3) * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/648 * \ln(3) * \ln(6) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m38^{-1} \\
& + 19/1296 * \ln(3) * \ln(6) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} - 1/648 * \ln(3) * \ln(6) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m38^{-1} \\
& - 1/432 * \ln(3) * \ln(6) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-1} - 7/10368 * \ln(3) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} \\
& - 7/648 * \ln(3) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 23/648 * \ln(3) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} \\
& - 2/81 * \ln(3) * \ln(8) * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-1} + 1/2304 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L8r * m38^{-1} \\
& - 8/9 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L7r * m38^{-1} + 22/3 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L6r * m83^{-1} \\
& - 1/3 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L5r * m83^{-1} + \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L4r * m83^{-1} - 11/72 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L3r * m83^{-1} \\
& - 1/1296 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 4/9 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m38^{-1} \\
& + 436/27 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m38^{-1} + 248/9 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m38^{-1} \\
& + 44/9 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m38^{-1} + 2/27 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m38^{-1} \\
& - 76/27 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L3r * m83^{-1} + 2/9 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L2r * m83^{-1} \\
& - 1/3 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L1r * m83^{-1} - 1/3 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L0r * m83^{-1} \\
& - 7/1728 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} + 100/27 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L8r * m38^{-1} \\
& - 268/27 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L7r * m38^{-1} - 208/9 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L6r * m83^{-1} \\
& + 4/9 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L5r * m83^{-1} - 2/27 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L4r * m83^{-1} \\
& - 2/27 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L3r * m83^{-1} - 2/27 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L2r * m83^{-1} \\
& - 2/27 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L1r * m83^{-1} - 2/27 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L0r * m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^3 * \sqrt{3} * \pi^{-2} * L5r * m38^{-1} + 8/9 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L5r * m83^{-1} - 2/9 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L4r * m38^{-1} + 4/9 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L4r * m83^{-1} + 1/9 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L3r * m83^{-1} + 1/648 * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} - 32/27 * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m38^{-1} + 16/9 * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m38^{-1} + 16/3 * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-1} + 1/216 * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} - 32/9 * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L8r * m38^{-1} + 16/3 * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L8r * m83^{-1} - 32/3 * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L7r * m38^{-1} + 16 * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L7r * m83^{-1} + 1/4608 * \ln(4)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-1} - 1/1728 * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m38^{-1} + 397/207360 * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} - 1/576 * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m38^{-1} - 1/3456 * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 7/1728 * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m38^{-1} + 49/10368 * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/216 * \ln(4)^2 * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m38^{-1} - 1/144 * \ln(4)^2 * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} - 1/2304 * \ln(4) * \ln(6) * F^{-3} * \cos x * \pi^{-4} * m83^{-1} + 1/288 * \ln(4) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 1/216 * \ln(4) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m38^{-1} - 1/144 * \ln(4) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 23/5760 * \ln(4) * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} - 1/2592 * \ln(4) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m38^{-1} + 733/103680 * \ln(4) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 1/324 * \ln(4) * \ln(8) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m38^{-1} - 113/20736 * \ln(4) * \ln(8) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/432 * \ln(4) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m38^{-1} + 31/2592 * \ln(4) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 1/216 * \ln(4) * \ln(8) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m38^{-1} + 5/1296 * \ln(4) * \ln(8) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} - 1/648 * \ln(4) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m38^{-1} - 19/1296 * \ln(4) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} - 1/648 * \ln(4) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m38^{-1} - 1/432 * \ln(4) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-1} - 1/2304 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L8r * m38^{-1} - 130/27 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L8r * m83^{-1} + 8/9 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L7r * m38^{-1} - 22/3 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L7r * m83^{-1} + 1/3 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L6r * m38^{-1} - \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L6r * m83^{-1} - 4/27 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L5r * m38^{-1} + 37/27 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L5r * m83^{-1} - 1/6 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L4r * m38^{-1} + 1/3 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L4r * m83^{-1} + 11/72 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L3r * m83^{-1} - 1/1296 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 4/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m38^{-1} + 436/27 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-1} + 16/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m38^{-1} + 248/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-1} - 4/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m38^{-1} + 44/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-1} + 2/27 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m38^{-1} - 76/27 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-1} + 2/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m38^{-1} - 16/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-1} - 1/3 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L3r * m83^{-1} + 7/1728 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 100/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L8r * m38^{-1} + 268/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L8r * m83^{-1} - 32/3 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L7r * m38^{-1} + 208/9 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L7r * m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 2^*L7r^*m83^{\wedge}-1 - 4/9*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L6r^*m38^{\wedge}-1 + 4/3*\ln(6)*F^{\wedge}- \\
& 3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L6r^*m83^{\wedge}-1 + 2/27*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}- \\
& 2*L5r^*m38^{\wedge}-1 - 8/9*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L5r^*m83^{\wedge}-1 + 2/9*\ln(6)*F^{\wedge}- \\
& 3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L4r^*m38^{\wedge}-1 - 4/9*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}- \\
& 2*L4r^*m83^{\wedge}-1 - 1/9*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L3r^*m83^{\wedge}-1 + 1/648*\ln(6)*F^{\wedge}- \\
& 3*\sin x^{\wedge}4*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 - 32/27*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*\pi^{\wedge}-2*L8r^*m38^{\wedge}- \\
& 1 + 16/9*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 - 32/9*\ln(6)*F^{\wedge}- \\
& 3*\sin x^{\wedge}4*\cos x^*\pi^{\wedge}-2*L7r^*m38^{\wedge}-1 + 16/3*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*\pi^{\wedge}- \\
& 2*L7r^*m83^{\wedge}-1 - 1/216*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 + 32/9*\ln(6)*F^{\wedge}- \\
& 3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}-2*L8r^*m38^{\wedge}-1 - 16/3*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}- \\
& 2*L8r^*m83^{\wedge}-1 + 32/3*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}-2*L7r^*m38^{\wedge}-1 - 16*\ln(6)*F^{\wedge}- \\
& 3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}-2*L7r^*m83^{\wedge}-1 + 1/4608*\ln(6)^{\wedge}2*F^{\wedge}-3*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 \\
& + 1/1728*\ln(6)^{\wedge}2*F^{\wedge}-3*\sin x^*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 - 397/207360*\ln(6)^{\wedge}2*F^{\wedge}- \\
& 3*\sin x^*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 - 1/576*\ln(6)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-4*m38^{\wedge}-1 \\
& - 1/3456*\ln(6)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 + 7/1728*\ln(6)^{\wedge}2*F^{\wedge}- \\
& 3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 - 49/10368*\ln(6)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}- \\
& 4*m83^{\wedge}-1 - 1/216*\ln(6)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 + 1/144*\ln(6)^{\wedge}2*F^{\wedge}- \\
& 3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 - 23/5760*\ln(6)*\ln(8)*F^{\wedge}-3*\sin x^*\sqrt{3}*\pi^{\wedge}- \\
& 4*m83^{\wedge}-1 - 1/2592*\ln(6)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-4*m38^{\wedge}-1 + 733/103680*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 + 1/324*\ln(6)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}- \\
& 4*m38^{\wedge}-1 + 113/20736*\ln(6)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 + \\
& 1/432*\ln(6)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*\pi^{\wedge}-4*m38^{\wedge}-1 + 31/2592*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\sin x^{\wedge}4*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 - 1/216*\ln(6)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}- \\
& 4*m38^{\wedge}-1 - 5/1296*\ln(6)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 - 1/648*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\sin x^{\wedge}6*\cos x^*\pi^{\wedge}-4*m38^{\wedge}-1 - 19/1296*\ln(6)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}6*\cos x^*\pi^{\wedge}- \\
& 4*m83^{\wedge}-1 + 1/648*\ln(6)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}7*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 + 1/432*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\sin x^{\wedge}7*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 + 1/648*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-4*m83^{\wedge}- \\
& 1 + 32/3*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 + 160/9*\ln(8)*F^{\wedge}- \\
& 3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-2*L7r^*m83^{\wedge}-1 + 32/9*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}- \\
& 2*L6r^*m83^{\wedge}-1 - 32/27*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-2*L5r^*m83^{\wedge}-1 - 4/3*\ln(8)*F^{\wedge}- \\
& 3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-2*L4r^*m83^{\wedge}-1 - 512/27*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*\pi^{\wedge}- \\
& 2*L8r^*m83^{\wedge}-1 - 512/9*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*\pi^{\wedge}-2*L7r^*m83^{\wedge}-1 + 512/27*\ln(8)*F^{\wedge}- \\
& 3*\sin x^{\wedge}6*\cos x^*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 + 512/9*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}6*\cos x^*\pi^{\wedge}- \\
& 2*L7r^*m83^{\wedge}-1 - 89/20736*\ln(8)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 + \\
& 23/1296*\ln(8)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 - 13/432*\ln(8)^{\wedge}2*F^{\wedge}- \\
& 3*\sin x^{\wedge}6*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 + 1/81*\ln(8)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}8*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 \\
& - 1/540/(mass(3))*\ln(3)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-4 - 5/24576/(mass(4))*\ln(4)^{\wedge}2*F^{\wedge}- \\
& 3*\cos x^*\pi^{\wedge}-4 - 13/61440/(mass(4))*\ln(4)^{\wedge}2*F^{\wedge}-3*\sin x^*\sqrt{3}*\pi^{\wedge}-4 - 7/7680/(mass(4))*\ln(4)^{\wedge}2*F^{\wedge}- \\
& 3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-4 + 7/23040/(mass(4))*\ln(4)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-4 - \\
& 1/24576/(mass(5))*\ln(4)^{\wedge}2*F^{\wedge}-3*\cos x^*\pi^{\wedge}-4 - 277/552960/(mass(5))*\ln(4)^{\wedge}2*F^{\wedge}- \\
& 3*\sin x^*\sqrt{3}*\pi^{\wedge}-4 - 41/23040/(mass(5))*\ln(4)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-4 + \\
& 41/69120/(mass(5))*\ln(4)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-4 - 5/24576/(mass(6))*\ln(6)^{\wedge}2*F^{\wedge}- \\
& 3*\cos x^*\pi^{\wedge}-4 + 13/61440/(mass(6))*\ln(6)^{\wedge}2*F^{\wedge}-3*\sin x^*\sqrt{3}*\pi^{\wedge}-4 - 7/7680/(mass(6))*\ln(6)^{\wedge}2*F^{\wedge}- \\
& 3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-4 - 7/23040/(mass(6))*\ln(6)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-4 - \\
& 1/24576/(mass(7))*\ln(6)^{\wedge}2*F^{\wedge}-3*\cos x^*\pi^{\wedge}-4 + 277/552960/(mass(7))*\ln(6)^{\wedge}2*F^{\wedge}- \\
& 3*\sin x^*\sqrt{3}*\pi^{\wedge}-4 - 41/23040/(mass(7))*\ln(6)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-4 -
\end{aligned}$$

$$\begin{aligned}
& 41/69120/(\text{mass}(7))^{\ln(6)^2 F^{-3} \sin x^3 \sqrt{3} \pi^{-4}} - 1/1536/(\text{mass}(8))^{\ln(8)^2 F^{-3} \cos x \pi^{-4}} \\
& - 1/540/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4}} \\
& + \text{mpp}2^{\text{mkp}2^3} * (+ 360448/27 F^{-3} \sin x^2 \cos x L8r^2 m83^{-2} + \\
& 2129920/27 F^{-3} \sin x^2 \cos x L7r L8r m83^{-2} + 1048576/9 F^{-3} \sin x^2 \cos x L7r^2 m83^{-2} \\
& + 32768/27 F^{-3} \sin x^2 \cos x L6r L8r m83^{-2} + 32768/9 F^{-3} \sin x^2 \cos x L6r L7r m83^{-2} \\
& - 16384/81 F^{-3} \sin x^2 \cos x L5r L8r m83^{-2} - 16384/27 F^{-3} \sin x^2 \cos x L5r L7r m83^{-2} \\
& - 16384/27 F^{-3} \sin x^2 \cos x L4r L8r m83^{-2} - 16384/9 F^{-3} \sin x^2 \cos x L4r L7r m83^{-2} \\
& - 524288/27 F^{-3} \sin x^4 \cos x L8r^2 m83^{-2} - 1048576/9 F^{-3} \sin x^4 \cos x L7r L8r m83^{-2} \\
& - 524288/3 F^{-3} \sin x^4 \cos x L7r^2 m83^{-2} - 1/243 C \ln(3) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} \\
& + 1/864 C \ln(4) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 1/864 C \ln(6) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} \\
& + 1/243 C \ln(8) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} - 256/81 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} L8r m83^{-2} \\
& - 256/27 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} L7r m83^{-2} + 1/1944 \ln(1) \ln(3) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} \\
& + 1/243 \ln(1) \ln(3) F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-2} - 1/648 \ln(1) \ln(4) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} \\
& + 1/324 \ln(1) \ln(4) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} + 1/324 \ln(1) \ln(4) F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-2} \\
& + 1/648 \ln(1) \ln(6) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} + 1/324 \ln(1) \ln(6) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} \\
& - 1/324 \ln(1) \ln(6) F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-2} + 7/1944 \ln(1) \ln(8) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} \\
& - 1/243 \ln(1) \ln(8) F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-2} - 352/27 \ln(3) F^{-3} \sin x^2 \cos x \pi^{-2} L8r m83^{-2} \\
& - 3200/81 \ln(3) F^{-3} \sin x^2 \cos x \pi^{-2} L7r m83^{-2} - 32/81 \ln(3) F^{-3} \sin x^2 \cos x \pi^{-2} L6r m83^{-2} \\
& + 16/81 \ln(3) F^{-3} \sin x^2 \cos x \pi^{-2} L5r m83^{-2} + 80/81 \ln(3) F^{-3} \sin x^2 \cos x \pi^{-2} L4r m83^{-2} - 2752/243 \ln(3) F^{-3} \sin x^4 \cos x \pi^{-2} L8r m83^{-2} \\
& - 2816/81 \ln(3) F^{-3} \sin x^4 \cos x \pi^{-2} L7r m83^{-2} + 64/81 \ln(3) F^{-3} \sin x^4 \cos x \pi^{-2} L6r m83^{-2} - 32/243 \ln(3) F^{-3} \sin x^4 \cos x \pi^{-2} L5r m83^{-2} \\
& - 32/81 \ln(3) F^{-3} \sin x^4 \cos x \pi^{-2} L4r m83^{-2} + 2560/81 \ln(3) F^{-3} \sin x^6 \cos x \pi^{-2} L8r m83^{-2} + 2560/27 \ln(3) F^{-3} \sin x^6 \cos x \pi^{-2} L7r m83^{-2} \\
& + 43/11664 \ln(3)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} + 19/1944 \ln(3)^2 F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-2} - 5/729 \ln(3)^2 F^{-3} \sin x^6 \cos x \pi^{-4} m83^{-2} \\
& - 2/243 \ln(3)^2 F^{-3} \sin x^8 \cos x \pi^{-4} m83^{-2} + 1/23328 \ln(3) \ln(4) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} + 23/1944 \ln(3) \ln(4) F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-2} \\
& + 19/1944 \ln(3) \ln(4) F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-2} - 31/5832 \ln(3) \ln(4) F^{-3} \sin x^5 \sqrt{3} \pi^{-4} m83^{-2} - 5/162 \ln(3) \ln(4) F^{-3} \sin x^6 \cos x \pi^{-4} m83^{-2} \\
& - 1/162 \ln(3) \ln(4) F^{-3} \sin x^7 \sqrt{3} \pi^{-4} m83^{-2} - 1/23328 \ln(3) \ln(6) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} + 23/1944 \ln(3) \ln(6) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} \\
& - 43/3888 \ln(3) \ln(6) F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-2} + 19/1944 \ln(3) \ln(6) F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-2} + 31/5832 \ln(3) \ln(6) F^{-3} \sin x^5 \sqrt{3} \pi^{-4} m83^{-2} \\
& - 5/162 \ln(3) \ln(6) F^{-3} \sin x^6 \cos x \pi^{-4} m83^{-2} + 1/162 \ln(3) \ln(6) F^{-3} \sin x^7 \sqrt{3} \pi^{-4} m83^{-2} + 19/1944 \ln(3) \ln(8) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} \\
& - 5/972 \ln(3) \ln(8) F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-2} - 20/729 \ln(3) \ln(8) F^{-3} \sin x^6 \cos x \pi^{-4} m83^{-2} + 4/243 \ln(3) \ln(8) F^{-3} \sin x^8 \cos x \pi^{-4} m83^{-2} \\
& - 416/243 \ln(4) F^{-3} \sin x \sqrt{3} \pi^{-2} L8r m83^{-2} - 320/81 \ln(4) F^{-3} \sin x \sqrt{3} \pi^{-2} L7r m83^{-2} - 8/27 \ln(4) F^{-3} \sin x \sqrt{3} \pi^{-2} L6r m83^{-2} \\
& - 8/81 \ln(4) F^{-3} \sin x \sqrt{3} \pi^{-2} L5r m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2 + 16/27*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} - 1888/81*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} - 1856/27*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} - 32/27*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} + 16/81*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} + 16/27*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} - 4192/243*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 4288/81*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 32/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} - 16/81*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} - 16/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} + 1024/27*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} + 1024/9*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} + 512/27*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 512/9*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 1/3456*\ln(4)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} + 49/31104*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/324*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 4/243*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/54*\ln(4)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 1/54*\ln(4)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/1728*\ln(4)*\ln(6)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} + 1/108*\ln(4)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 1/27*\ln(4)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 1/432*\ln(4)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 37/1944*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 127/11664*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 115/1944*\ln(4)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 113/5832*\ln(4)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/162*\ln(4)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 1/162*\ln(4)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} + 416/243*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 320/81*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 8/27*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} + 8/81*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} - 16/27*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} - 1888/81*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} - 1856/27*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} - 32/27*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} + 16/81*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} + 16/27*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} + 4192/243*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 4288/81*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 32/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} + 16/81*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} + 16/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} + 1024/27*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} + 1024/9*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} - 512/27*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 512/9*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 1/3456*\ln(6)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 49/31104*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/324*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 4/243*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/54*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 1/54*\ln(6)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/432*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 37/1944*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 127/11664*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 115/1944*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 113/5832*\ln(6)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/162*\ln(6)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} - 1/162*\ln(6)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} - 5408/243*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} - 5248/81*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} -
\end{aligned}$$

$$\begin{aligned}
& 32/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} + 16/243*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} - 16/81*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} + 15040/243*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} \\
& + 15104/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} - 64/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-2} + 32/243*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-2} + 32/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-2} - 2560/81*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-2} \\
& - 2560/27*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-2} + 115/11664*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 73/1944*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 25/729*\ln(8)^2*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} - 2/243*\ln(8)^2*F^{-3}*\sin x^8*\cos x*\pi^{-4}*m83^{-2} \\
& + 211/29160/(mass(3))*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 2/729/(mass(3))*\ln(3)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 257/30720/(mass(4))*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 11/1152/(mass(4))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 811/92160/(mass(5))*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 11/1152/(mass(5))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 257/30720/(mass(6))*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 61/10368/(mass(6))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 811/92160/(mass(7))*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 61/10368/(mass(7))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 11/1152/(mass(8))*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 209/29160/(mass(8))*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 2/729/(mass(8))*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} \\
& + mpp2^2*mkp2^4 * (+ 1/1458/(mass(3))*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 1/1728/(mass(4))*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/1728/(mass(6))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/1458/(mass(8))*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2}) \\
& + mpp2^2 * (+ 41/32768*F^{-3}*\cos x*\pi^{-4} + 35/73728*F^{-3}*\cos x*\pi^{-2} - F^{-3}*\cos x*\pi^{-2}*L8r - F^{-3}*\cos x*\pi^{-2}*L6r + 1/2*F^{-3}*\cos x*\pi^{-2}*L5r + 1/2*F^{-3}*\cos x*\pi^{-2}*L4r - 7/108*F^{-3}*\cos x*\pi^{-2}*L3r - 37/144*F^{-3}*\cos x*\pi^{-2}*L2r - 1/8*F^{-3}*\cos x*\pi^{-2}*L1r - 8*F^{-3}*\cos x*L5r^2 - 16*F^{-3}*\cos x*L4r*L5r - 8*F^{-3}*\cos x*L4r^2 + 8*F^{-3}*\cos x*CC17 + 24*F^{-3}*\cos x*CC16 + 8*F^{-3}*\cos x*CC15 + 8*F^{-3}*\cos x*CC14 + 89/69120*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 7/12960*F^{-3}*\sin x^2*\cos x*\pi^{-2} - 4/9*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r + 2/9*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r + 1/18*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r - 256/3*F^{-3}*\sin x^2*\cos x*CC18 - 256/9*F^{-3}*\sin x^2*\cos x*CC17 - 256/9*F^{-3}*\sin x^2*\cos x*CC14 - 125/15552*C*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 8/9*C*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r + 8/9*C*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r + 23/8640*C^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 31/11520*C*\ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/160*C*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/240*C*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 31/69120*C*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 7/7680*C*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 31/69120*C*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 31/69120*C*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 7/7680*C*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 31/69120*C*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/480*C*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/240*C*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 3/1024*\ln(1)*F^{-3}*\cos x*\pi^{-4} - \ln(1)*F^{-3}*\cos x*\pi^{-2}*L8r - \ln(1)*F^{-3}*\cos x*\pi^{-2}*L6r + 1/2*\ln(1)*F^{-3}*\cos x*\pi^{-2}*L5r + 1/4*\ln(1)*F^{-3}*\cos x*\pi^{-2}*L4r +
\end{aligned}$$

$$\begin{aligned}
& 1/2*\ln(1)*F^{-3}\cos x*\pi^{-2}*L3r + 1/4*\ln(1)*F^{-3}\cos x*\pi^{-2}*L2r + \ln(1)*F^{-3} \\
& 3*\cos x*\pi^{-2}*L1r + 7/3072*\ln(1)*F^{-3}\sin x^2*\cos x*\pi^{-4} - 1/3*\ln(1)*F^{-3} \\
& 3*\sin x^2*\cos x*\pi^{-2}*L8r - 1/3*\ln(1)*F^{-3}\sin x^2*\cos x*\pi^{-2}*L6r + 5/36*\ln(1)*F^{-3} \\
& 3*\sin x^2*\cos x*\pi^{-2}*L5r + 1/4*\ln(1)*F^{-3}\sin x^2*\cos x*\pi^{-2}*L4r + \\
& 1/4*\ln(1)*F^{-3}\sin x^2*\cos x*\pi^{-2}*L3r + 31/23040*\ln(1)^2*F^{-3}\sin x^2*\cos x*\pi^{-4} \\
& 4 + 1/1536*\ln(1)^2*F^{-3}\sin x^4*\cos x*\pi^{-4} - 1/512*\ln(1)*\ln(3)*F^{-3} \\
& 3*\cos x*\pi^{-4} + 73/69120*\ln(1)*\ln(3)*F^{-3}\sin x^2*\cos x*\pi^{-4} - 1/17280*\ln(1)*\ln(3)*F^{-3} \\
& 3*\sin x^4*\cos x*\pi^{-4} + 11/138240*\ln(1)*\ln(4)*F^{-3}\sin x*\sqrt{3}*\pi^{-4} - \\
& 1/1920*\ln(1)*\ln(4)*F^{-3}\sin x^2*\cos x*\pi^{-4} + 19/138240*\ln(1)*\ln(4)*F^{-3} \\
& 3*\sin x^3*\sqrt{3}*\pi^{-4} - 1/1536*\ln(1)*\ln(4)*F^{-3}\sin x^4*\cos x*\pi^{-4} - 1/4608*\ln(1)*\ln(4)*F^{-3} \\
& 3*\sin x^5*\sqrt{3}*\pi^{-4} - 11/138240*\ln(1)*\ln(6)*F^{-3}\sin x*\sqrt{3}*\pi^{-4} - \\
& 1/1920*\ln(1)*\ln(6)*F^{-3}\sin x^2*\cos x*\pi^{-4} - 19/138240*\ln(1)*\ln(6)*F^{-3} \\
& 3*\sin x^3*\sqrt{3}*\pi^{-4} - 1/1536*\ln(1)*\ln(6)*F^{-3}\sin x^4*\cos x*\pi^{-4} + \\
& 1/4608*\ln(1)*\ln(6)*F^{-3}\sin x^5*\sqrt{3}*\pi^{-4} - 1/4608*\ln(1)*\ln(8)*F^{-3} \\
& 3*\cos x*\pi^{-4} - 17/23040*\ln(1)*\ln(8)*F^{-3}\sin x^2*\cos x*\pi^{-4} + 1/17280*\ln(1)*\ln(8)*F^{-3} \\
& 3*\sin x^4*\cos x*\pi^{-4} - 1/512*\ln(3)*F^{-3}\cos x*\pi^{-4} - 1/8*\ln(3)*F^{-3}\cos x*\pi^{-2} \\
& 2*L5r - 1/4*\ln(3)*F^{-3}\cos x*\pi^{-2}*L4r + 3/8*\ln(3)*F^{-3}\cos x*\pi^{-2}*L3r \\
& + 3/4*\ln(3)*F^{-3}\cos x*\pi^{-2}*L2r + 3/4*\ln(3)*F^{-3}\cos x*\pi^{-2}*L1r + \\
& 4/27*\ln(3)*F^{-3}\sin x^2*\cos x*\pi^{-2}*L5r + 1/1728*\ln(3)*F^{-3}\sin x^4*\cos x*\pi^{-4} \\
& - 4/27*\ln(3)*F^{-3}\sin x^4*\cos x*\pi^{-2}*L5r + 71/414720*\ln(3)*\ln(4)*F^{-3} \\
& 3*\sin x*\sqrt{3}*\pi^{-4} - 1/138240*\ln(3)*\ln(4)*F^{-3}\sin x^2*\cos x*\pi^{-4} - 5/27648*\ln(3)*\ln(4)*F^{-3} \\
& 3*\sin x^3*\sqrt{3}*\pi^{-4} - 1/34560*\ln(3)*\ln(4)*F^{-3}\sin x^4*\cos x*\pi^{-4} + \\
& 1/103680*\ln(3)*\ln(4)*F^{-3}\sin x^5*\sqrt{3}*\pi^{-4} - 71/414720*\ln(3)*\ln(6)*F^{-3} \\
& 3*\sin x*\sqrt{3}*\pi^{-4} - 1/138240*\ln(3)*\ln(6)*F^{-3}\sin x^2*\cos x*\pi^{-4} + \\
& 5/27648*\ln(3)*\ln(6)*F^{-3}\sin x^3*\sqrt{3}*\pi^{-4} - 1/34560*\ln(3)*\ln(6)*F^{-3} \\
& 3*\sin x^4*\cos x*\pi^{-4} - 1/103680*\ln(3)*\ln(6)*F^{-3}\sin x^5*\sqrt{3}*\pi^{-4} + \\
& 7/18432*\ln(4)*F^{-3}\sin x*\sqrt{3}*\pi^{-4} - 1/18*\ln(4)*F^{-3}\sin x*\sqrt{3}*\pi^{-2}*L8r \\
& - 1/18*\ln(4)*F^{-3}\sin x*\sqrt{3}*\pi^{-2}*L6r + 5/216*\ln(4)*F^{-3}\sin x*\sqrt{3}*\pi^{-2} \\
& 2*L5r + 1/24*\ln(4)*F^{-3}\sin x*\sqrt{3}*\pi^{-2}*L4r + 1/24*\ln(4)*F^{-3}\sin x*\sqrt{3}*\pi^{-2} \\
& 2*L3r + 1/6144*\ln(4)*F^{-3}\sin x^2*\cos x*\pi^{-4} - 1/18*\ln(4)*F^{-3}\sin x^2*\cos x*\pi^{-2} \\
& 2*L8r + 1/6*\ln(4)*F^{-3}\sin x^2*\cos x*\pi^{-2}*L6r + 1/24*\ln(4)*F^{-3}\sin x^2*\cos x*\pi^{-2} \\
& 2*L5r - 1/8*\ln(4)*F^{-3}\sin x^2*\cos x*\pi^{-2}*L4r + 1/24*\ln(4)*F^{-3}\sin x^2*\cos x*\pi^{-2} \\
& 2*L3r - 7/18432*\ln(4)*F^{-3}\sin x^3*\sqrt{3}*\pi^{-4} + 1/18*\ln(4)*F^{-3}\sin x^3*\sqrt{3}*\pi^{-2} \\
& 2*L8r + 1/18*\ln(4)*F^{-3}\sin x^3*\sqrt{3}*\pi^{-2}*L6r - 5/216*\ln(4)*F^{-3}\sin x^3*\sqrt{3}*\pi^{-2} \\
& 2*L5r - 1/24*\ln(4)*F^{-3}\sin x^3*\sqrt{3}*\pi^{-2}*L4r - 1/24*\ln(4)*F^{-3}\sin x^3*\sqrt{3}*\pi^{-2} \\
& 2*L3r + 1/10240*\ln(4)^2*F^{-3}\sin x*\sqrt{3}*\pi^{-4} + 31/138240*\ln(4)^2*F^{-3} \\
& 3*\sin x^2*\cos x*\pi^{-4} - 19/92160*\ln(4)^2*F^{-3}\sin x^3*\sqrt{3}*\pi^{-4} + 1/9216*\ln(4)^2*F^{-3} \\
& 3*\sin x^4*\cos x*\pi^{-4} + 1/9216*\ln(4)^2*F^{-3}\sin x^5*\sqrt{3}*\pi^{-4} - 1/17280*\ln(4)*\ln(6)*F^{-3} \\
& 3*\sin x^2*\cos x*\pi^{-4} + 1/2304*\ln(4)*\ln(6)*F^{-3}\sin x^4*\cos x*\pi^{-4} - 49/414720*\ln(4)*\ln(8)*F^{-3} \\
& 3*\sin x*\sqrt{3}*\pi^{-4} - 1/27648*\ln(4)*\ln(8)*F^{-3}\sin x^2*\cos x*\pi^{-4} + 53/414720*\ln(4)*\ln(8)*F^{-3} \\
& 3*\sin x^3*\sqrt{3}*\pi^{-4} + 1/34560*\ln(4)*\ln(8)*F^{-3}\sin x^4*\cos x*\pi^{-4} - \\
& 1/103680*\ln(4)*\ln(8)*F^{-3}\sin x^5*\sqrt{3}*\pi^{-4} - 7/18432*\ln(6)*F^{-3}\sin x*\sqrt{3}*\pi^{-4} \\
& 4 + 1/18*\ln(6)*F^{-3}\sin x*\sqrt{3}*\pi^{-2}*L8r + 1/18*\ln(6)*F^{-3}\sin x*\sqrt{3}*\pi^{-2} \\
& 2*L6r - 5/216*\ln(6)*F^{-3}\sin x*\sqrt{3}*\pi^{-2}*L5r - 1/24*\ln(6)*F^{-3}\sin x*\sqrt{3}*\pi^{-2} \\
& 2*L4r - 1/24*\ln(6)*F^{-3}\sin x*\sqrt{3}*\pi^{-2}*L3r + 1/6144*\ln(6)*F^{-3}\sin x^2*\cos x*\pi^{-4} \\
& 4 - 1/18*\ln(6)*F^{-3}\sin x^2*\cos x*\pi^{-2}*L8r + 1/6*\ln(6)*F^{-3}\sin x^2*\cos x*\pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2^*L6r + 1/24*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r - 1/8*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2} \\
& 2^*L4r + 1/24*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r + 7/18432*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& - 1/18*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r - 1/18*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r \\
& + 5/216*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r + 1/24*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r \\
& + 1/24*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L3r - 1/10240*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 31/138240*\ln(6)^2*F^{-3} \\
& 3*\sin x^2*\cos x*\pi^{-4} + 19/92160*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/9216*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} \\
& - 1/9216*\ln(6)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 49/414720*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 1/27648*\ln(6)*\ln(8)*F^{-3} \\
& 3*\sin x^2*\cos x*\pi^{-4} - 53/414720*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/34560*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} \\
& + 1/103680*\ln(6)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} - 1/4608*\ln(8)*F^{-3}*\cos x*\pi^{-4} + 1/72*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L5r \\
& - 1/36*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L4r + 1/72*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L3r + 1/72*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L2r \\
& + 1/18*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L1r - 1/864*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 4/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r \\
& - 1/1728*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 4/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r - 8/27*\text{Hb}(1,2,3,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& + 4/3*\text{Hb}(1,2,3,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - 3/2*\text{Hb}(1,2,3,1,\text{plext.plext})*F^{-3}*\cos x - 4/9*\text{Hb}(1,2,3,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 2/3*\text{Hb}(1,2,3,1,\text{plext.plext})*F^{-3} \\
& 3*\sin x^4*\cos x + 44/27*\text{Hb}(1,2,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 4/3*\text{Hb}(1,2,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 10/9*\text{Hb}(1,2,8,1,\text{plext.plext})*F^{-3} \\
& 3*\sin x^2*\cos x - 2/3*\text{Hb}(1,2,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 1/3*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 31/18*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& - 2/9*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 5/16*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3}*\cos x + 1/9*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 31/36*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3} \\
& 3*\sin x^2*\cos x - 1/9*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + 1/3*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 31/18*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& - 2/9*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 5/16*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3}*\cos x + 1/9*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 31/36*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3} \\
& 3*\sin x^2*\cos x - 1/9*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/3*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/9*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& + 1/2*\text{Hb}(3,1,2,1,\text{plext.plext})*F^{-3}*\cos x - 2/9*\text{Hb}(3,1,2,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/18*\text{Hb}(3,1,2,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 88/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3} \\
& 3*\sin x^2*\cos x*m83^{-1} + 208/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - 256/81*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3}*\sin x^6*\cos x*m83^{-1} + 512/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3} \\
& 3*\sin x^8*\cos x*m83^{-1} + 1/12*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\cos x + 80/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 80/81*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 512/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3} \\
& 3*\sin x^6*\cos x + 256/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sin x^8*\cos x + 8/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 272/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3} \\
& 3*\sin x^4*\cos x*m83^{-1} + 256/27*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin x^6*\cos x*m83^{-1} - 512/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin x^8*\cos x*m83^{-1} + 32/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3} \\
& 3*\sin x^2*\cos x - 32/9*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 512/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3}*\sin x^6*\cos x - 256/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3}*\sin x^8*\cos x - 139/1296*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3} \\
& 3*\sin x*\sqrt{3}*m83^{-1} + 25/18*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 83/324*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 47/54*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3} \\
& 3*\sin x^4*\cos x*m83^{-1} + 17/54*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1 + 5/32 * \text{Hb}(3,4,5,1, \text{plext.plext}) * F^{-3} * \cos x + 1/8 * \text{Hb}(3,4,5,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x * \sqrt{3} + 8/9 * \text{Hb}(3,4,5,1, \text{plext.plext}) * F^{-3} * \sin x^2 * \cos x - 61/216 * \text{Hb}(3,4,5,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^3 * \sqrt{3} - 47/108 * \text{Hb}(3,4,5,1, \text{plext.plext}) * F^{-3} * \sin x^4 * \cos x + \\
& 17/108 * \text{Hb}(3,4,5,1, \text{plext.plext}) * F^{-3} * \sin x^5 * \sqrt{3} + 139/1296 * \text{Hb}(3,6,7, \text{plext.plext}) * F^{-} \\
& 3 * \sin x * \sqrt{3} * m83^{-1} + 25/18 * \text{Hb}(3,6,7, \text{plext.plext}) * F^{-3} * \sin x^2 * \cos x * m83^{-} \\
& 1 + 83/324 * \text{Hb}(3,6,7, \text{plext.plext}) * F^{-3} * \sin x^3 * \sqrt{3} * m83^{-1} - 47/54 * \text{Hb}(3,6,7, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^4 * \cos x * m83^{-1} - 17/54 * \text{Hb}(3,6,7, \text{plext.plext}) * F^{-3} * \sin x^5 * \sqrt{3} * m83^{-} \\
& 1 + 5/32 * \text{Hb}(3,6,7,1, \text{plext.plext}) * F^{-3} * \cos x - 1/8 * \text{Hb}(3,6,7,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x * \sqrt{3} + 8/9 * \text{Hb}(3,6,7,1, \text{plext.plext}) * F^{-3} * \sin x^2 * \cos x + 61/216 * \text{Hb}(3,6,7,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^3 * \sqrt{3} - 47/108 * \text{Hb}(3,6,7,1, \text{plext.plext}) * F^{-3} * \sin x^4 * \cos x - 17/108 * \text{Hb}(3,6,7,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^5 * \sqrt{3} - 8/81 * \text{Hb}(3,8,8, \text{plext.plext}) * F^{-3} * \sin x^2 * \cos x * m83^{-1} + \\
& 272/81 * \text{Hb}(3,8,8, \text{plext.plext}) * F^{-3} * \sin x^4 * \cos x * m83^{-1} - 256/27 * \text{Hb}(3,8,8, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^6 * \cos x * m83^{-1} + 512/81 * \text{Hb}(3,8,8, \text{plext.plext}) * F^{-3} * \sin x^8 * \cos x * m83^{-} \\
& 1 + 1/36 * \text{Hb}(3,8,8,1, \text{plext.plext}) * F^{-3} * \cos x - 16/27 * \text{Hb}(3,8,8,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^2 * \cos x + 304/81 * \text{Hb}(3,8,8,1, \text{plext.plext}) * F^{-3} * \sin x^4 * \cos x - \\
& 512/81 * \text{Hb}(3,8,8,1, \text{plext.plext}) * F^{-3} * \sin x^6 * \cos x + 256/81 * \text{Hb}(3,8,8,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^8 * \cos x + 1/36 * \text{Hb}(4,2,7, \text{plext.plext}) * F^{-3} * \sin x * \sqrt{3} * m83^{-1} - \\
& 1/12 * \text{Hb}(4,2,7, \text{plext.plext}) * F^{-3} * \sin x^2 * \cos x * m83^{-1} - 1/36 * \text{Hb}(4,2,7, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^3 * \sqrt{3} * m83^{-1} + 1/72 * \text{Hb}(4,2,7,1, \text{plext.plext}) * F^{-3} * \sin x * \sqrt{3} - \\
& 1/24 * \text{Hb}(4,2,7,1, \text{plext.plext}) * F^{-3} * \sin x^2 * \cos x - 1/72 * \text{Hb}(4,2,7,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^3 * \sqrt{3} - 131/324 * \text{Hb}(4,5,8, \text{plext.plext}) * F^{-3} * \sin x * \sqrt{3} * m83^{-1} + \\
& 14/9 * \text{Hb}(4,5,8, \text{plext.plext}) * F^{-3} * \sin x^2 * \cos x * m83^{-1} + 65/81 * \text{Hb}(4,5,8, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^3 * \sqrt{3} * m83^{-1} - 14/27 * \text{Hb}(4,5,8, \text{plext.plext}) * F^{-3} * \sin x^4 * \cos x * m83^{-} \\
& 1 - 14/27 * \text{Hb}(4,5,8, \text{plext.plext}) * F^{-3} * \sin x^5 * \sqrt{3} * m83^{-1} - 5/24 * \text{Hb}(4,5,8,1, \text{plext.plext}) * F^{-} \\
& 3 * \cos x - 11/54 * \text{Hb}(4,5,8,1, \text{plext.plext}) * F^{-3} * \sin x * \sqrt{3} + 25/27 * \text{Hb}(4,5,8,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^2 * \cos x + 25/54 * \text{Hb}(4,5,8,1, \text{plext.plext}) * F^{-3} * \sin x^3 * \sqrt{3} - 7/27 * \text{Hb}(4,5,8,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^4 * \cos x - 7/27 * \text{Hb}(4,5,8,1, \text{plext.plext}) * F^{-3} * \sin x^5 * \sqrt{3} + 1/36 * \text{Hb}(4,5,8,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x * \sqrt{3} * m83^{-1} - 1/12 * \text{Hb}(5,1,6, \text{plext.plext}) * F^{-3} * \sin x^2 * \cos x * m83^{-1} - \\
& 1/36 * \text{Hb}(5,1,6, \text{plext.plext}) * F^{-3} * \sin x^3 * \sqrt{3} * m83^{-1} + 1/72 * \text{Hb}(5,1,6,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x * \sqrt{3} - 1/24 * \text{Hb}(5,1,6,1, \text{plext.plext}) * F^{-3} * \sin x^2 * \cos x - 1/72 * \text{Hb}(5,1,6,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^3 * \sqrt{3} - 1/36 * \text{Hb}(6,1,5, \text{plext.plext}) * F^{-3} * \sin x * \sqrt{3} * m83^{-1} - \\
& 1/12 * \text{Hb}(6,1,5, \text{plext.plext}) * F^{-3} * \sin x^2 * \cos x * m83^{-1} + 1/36 * \text{Hb}(6,1,5, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^3 * \sqrt{3} * m83^{-1} - 1/72 * \text{Hb}(6,1,5,1, \text{plext.plext}) * F^{-3} * \sin x * \sqrt{3} - \\
& 1/24 * \text{Hb}(6,1,5,1, \text{plext.plext}) * F^{-3} * \sin x^2 * \cos x + 1/72 * \text{Hb}(6,1,5,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^3 * \sqrt{3} + 131/324 * \text{Hb}(6,7,8, \text{plext.plext}) * F^{-3} * \sin x * \sqrt{3} * m83^{-1} + \\
& 14/9 * \text{Hb}(6,7,8, \text{plext.plext}) * F^{-3} * \sin x^2 * \cos x * m83^{-1} - 65/81 * \text{Hb}(6,7,8, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^3 * \sqrt{3} * m83^{-1} - 14/27 * \text{Hb}(6,7,8, \text{plext.plext}) * F^{-3} * \sin x^4 * \cos x * m83^{-} \\
& 1 + 14/27 * \text{Hb}(6,7,8, \text{plext.plext}) * F^{-3} * \sin x^5 * \sqrt{3} * m83^{-1} - 5/24 * \text{Hb}(6,7,8,1, \text{plext.plext}) * F^{-} \\
& 3 * \cos x + 11/54 * \text{Hb}(6,7,8,1, \text{plext.plext}) * F^{-3} * \sin x * \sqrt{3} + 25/27 * \text{Hb}(6,7,8,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^2 * \cos x - 25/54 * \text{Hb}(6,7,8,1, \text{plext.plext}) * F^{-3} * \sin x^3 * \sqrt{3} - 7/27 * \text{Hb}(6,7,8,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^4 * \cos x + 7/27 * \text{Hb}(6,7,8,1, \text{plext.plext}) * F^{-3} * \sin x^5 * \sqrt{3} - 1/36 * \text{Hb}(7,2,4, \text{plext.plext}) * F^{-} \\
& 3 * \sin x * \sqrt{3} * m83^{-1} - 1/12 * \text{Hb}(7,2,4, \text{plext.plext}) * F^{-3} * \sin x^2 * \cos x * m83^{-1} \\
& + 1/36 * \text{Hb}(7,2,4, \text{plext.plext}) * F^{-3} * \sin x^3 * \sqrt{3} * m83^{-1} - 1/72 * \text{Hb}(7,2,4,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x * \sqrt{3} - 1/24 * \text{Hb}(7,2,4,1, \text{plext.plext}) * F^{-3} * \sin x^2 * \cos x + 1/72 * \text{Hb}(7,2,4,1, \text{plext.plext}) * F^{-} \\
& 3 * \sin x^3 * \sqrt{3} - 1/9 * \text{Hb}(8,1,2, \text{plext.plext}) * F^{-3} * \sin x^4 * \cos x * m83^{-1} + \\
& 1/18 * \text{Hb}(8,1,2,1, \text{plext.plext}) * F^{-3} * \sin x^2 * \cos x - 1/18 * \text{Hb}(8,1,2,1, \text{plext.plext}) * F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3*\sin^4*\cos + 7/144*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3*\sin*\sqrt{3}*m83^{-1}} - \\
& 1/12*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3*\sin^3*\sqrt{3}*m83^{-1}} + 1/18*\text{Hb}(8,4,5,\text{plext.plext})*F^{-} \\
& 3*\sin^4*\cos*m83^{-1} + 1/18*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3*\sin^5*\sqrt{3}*m83^{-} \\
& 1 - 1/32*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3*\cos} + 1/72*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-} \\
& 3*\sin*\sqrt{3} - 1/36*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3*\sin^2*\cos} - 1/24*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-} \\
& 3*\sin^3*\sqrt{3} + 1/36*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3*\sin^4*\cos} + 1/36*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-} \\
& 3*\sin^5*\sqrt{3} - 7/144*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3*\sin*\sqrt{3}*m83^{-1}} + \\
& 1/12*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3*\sin^3*\sqrt{3}*m83^{-1}} + 1/18*\text{Hb}(8,6,7,\text{plext.plext})*F^{-} \\
& 3*\sin^4*\cos*m83^{-1} - 1/18*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3*\sin^5*\sqrt{3}*m83^{-} \\
& 1 - 1/32*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3*\cos} - 1/72*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-} \\
& 3*\sin*\sqrt{3} - 1/36*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3*\sin^2*\cos} + 1/24*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-} \\
& 3*\sin^3*\sqrt{3} + 1/36*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3*\sin^4*\cos} - 1/36*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-} \\
& 3*\sin^5*\sqrt{3} + 40/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3*\sin^2*\cos*m83^{-1}} - \\
& 208/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3*\sin^4*\cos*m83^{-1}} + 256/81*\text{Hb}(8,8,8,\text{plext.plext})*F^{-} \\
& 3*\sin^6*\cos*m83^{-1} - 512/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3*\sin^8*\cos*m83^{-} \\
& 1 + 32/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3*\sin^2*\cos} - 32/27*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-} \\
& 3*\sin^4*\cos + 512/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3*\sin^6*\cos} - \\
& 256/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3*\sin^8*\cos} + 1/6*\text{H21b}(1,5,6,\text{plext.plext})*F^{-} \\
& 3*\sin^2*\cos*m83^{-1} - 3/16*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-3*\cos} + \\
& 1/12*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-3*\sin^2*\cos} + 1/6*\text{H21b}(2,4,7,\text{plext.plext})*F^{-} \\
& 3*\sin^2*\cos*m83^{-1} - 3/16*\text{H21b}(2,4,7,1,\text{plext.plext})*F^{-3*\cos} + \\
& 1/12*\text{H21b}(2,4,7,1,\text{plext.plext})*F^{-3*\sin^2*\cos} - \text{H21b}(3,1,2,\text{plext.plext})*F^{-} \\
& 3*\sin^2*\cos*m83^{-1} + 1/3*\text{H21b}(3,1,2,\text{plext.plext})*F^{-3*\sin^4*\cos*m83^{-} \\
& 1 + 3/2*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3*\cos} - 2/3*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-} \\
& 3*\sin^2*\cos + 1/6*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3*\sin^4*\cos} - 5/16*\text{H21b}(3,4,5,\text{plext.plext})*F^{-} \\
& 3*\sin*\sqrt{3}*m83^{-1} + 1/2*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3*\sin^2*\cos*m83^{-} \\
& 1 + 5/12*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3*\sin^3*\sqrt{3}*m83^{-1}} - 1/6*\text{H21b}(3,4,5,\text{plext.plext})*F^{-} \\
& 3*\sin^4*\cos*m83^{-1} - 1/6*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3*\sin^5*\sqrt{3}*m83^{-} \\
& 1 + 3/32*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3*\cos} - 1/8*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-} \\
& 3*\sin*\sqrt{3} + 1/3*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3*\sin^2*\cos} + 5/24*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-} \\
& 3*\sin^3*\sqrt{3} - 1/12*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3*\sin^4*\cos} - 1/12*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-} \\
& 3*\sin^5*\sqrt{3} + 5/16*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3*\sin*\sqrt{3}*m83^{-1}} + \\
& 1/2*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3*\sin^2*\cos*m83^{-1}} - 5/12*\text{H21b}(3,6,7,\text{plext.plext})*F^{-} \\
& 3*\sin^3*\sqrt{3}*m83^{-1} - 1/6*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3*\sin^4*\cos*m83^{-} \\
& 1 + 1/6*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3*\sin^5*\sqrt{3}*m83^{-1}} + 3/32*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-} \\
& 3*\cos + 1/8*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3*\sin*\sqrt{3}} + 1/3*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-} \\
& 3*\sin^2*\cos - 5/24*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3*\sin^3*\sqrt{3}} - 1/12*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-} \\
& 3*\sin^4*\cos + 1/12*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3*\sin^5*\sqrt{3}} - \\
& 1/24*\text{H21b}(4,2,7,\text{plext.plext})*F^{-3*\sin*\sqrt{3}*m83^{-1}} - 1/12*\text{H21b}(4,2,7,\text{plext.plext})*F^{-} \\
& 3*\sin^2*\cos*m83^{-1} + 1/12*\text{H21b}(4,2,7,\text{plext.plext})*F^{-3*\sin^3*\sqrt{3}*m83^{-} \\
& 1 + 3/8*\text{H21b}(4,2,7,1,\text{plext.plext})*F^{-3*\cos} - 1/24*\text{H21b}(4,2,7,1,\text{plext.plext})*F^{-} \\
& 3*\sin*\sqrt{3} - 1/24*\text{H21b}(4,2,7,1,\text{plext.plext})*F^{-3*\sin^2*\cos} + 1/24*\text{H21b}(4,2,7,1,\text{plext.plext})*F^{-} \\
& 3*\sin^3*\sqrt{3} - 1/24*\text{H21b}(5,1,6,\text{plext.plext})*F^{-3*\sin*\sqrt{3}*m83^{-1}} - \\
& 1/12*\text{H21b}(5,1,6,\text{plext.plext})*F^{-3*\sin^2*\cos*m83^{-1}} + 1/12*\text{H21b}(5,1,6,\text{plext.plext})*F^{-} \\
& 3*\sin^3*\sqrt{3}*m83^{-1} + 3/8*\text{H21b}(5,1,6,1,\text{plext.plext})*F^{-3*\cos} - \\
& 1/24*\text{H21b}(5,1,6,1,\text{plext.plext})*F^{-3*\sin*\sqrt{3}} - 1/24*\text{H21b}(5,1,6,1,\text{plext.plext})*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3*\sin x^2*\cos x + 1/24*H21b(5,1,6,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + \\
& 1/24*H21b(6,1,5,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 1/12*H21b(6,1,5,plext.plext)*F^{-3} \\
& 3*\sin x^2*\cos x*m83^{-1} - 1/12*H21b(6,1,5,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} \\
& 1 + 3/8*H21b(6,1,5,1,plext.plext)*F^{-3}*\cos x + 1/24*H21b(6,1,5,1,plext.plext)*F^{-3} \\
& 3*\sin x*\sqrt{3} - 1/24*H21b(6,1,5,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 1/24*H21b(6,1,5,1,plext.plext)*F^{-3} \\
& 3*\sin x^3*\sqrt{3} + 1/24*H21b(7,2,4,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 1/12*H21b(7,2,4,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/12*H21b(7,2,4,plext.plext)*F^{-3} \\
& 3*\sin x^3*\sqrt{3}*m83^{-1} + 3/8*H21b(7,2,4,1,plext.plext)*F^{-3}*\cos x + \\
& 1/24*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 1/24*H21b(7,2,4,1,plext.plext)*F^{-3} \\
& 3*\sin x^2*\cos x - 1/24*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + \\
& 2/3*H21b(8,1,2,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/3*H21b(8,1,2,plext.plext)*F^{-3} \\
& 3*\sin x^4*\cos x*m83^{-1} + 1/2*H21b(8,1,2,1,plext.plext)*F^{-3}*\sin x^2*\cos x - \\
& 1/6*H21b(8,1,2,1,plext.plext)*F^{-3}*\sin x^4*\cos x + 19/48*H21b(8,4,5,plext.plext)*F^{-3} \\
& 3*\sin x*\sqrt{3}*m83^{-1} - 1/3*H21b(8,4,5,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& - 7/12*H21b(8,4,5,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/6*H21b(8,4,5,plext.plext)*F^{-3} \\
& 3*\sin x^4*\cos x*m83^{-1} + 1/6*H21b(8,4,5,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} \\
& 1 + 9/32*H21b(8,4,5,1,plext.plext)*F^{-3}*\cos x + 5/24*H21b(8,4,5,1,plext.plext)*F^{-3} \\
& 3*\sin x*\sqrt{3} - 1/4*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 7/24*H21b(8,4,5,1,plext.plext)*F^{-3} \\
& 3*\sin x^3*\sqrt{3} + 1/12*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin x^4*\cos x + \\
& 1/12*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} - 19/48*H21b(8,6,7,plext.plext)*F^{-3} \\
& 3*\sin x*\sqrt{3}*m83^{-1} - 1/3*H21b(8,6,7,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& + 7/12*H21b(8,6,7,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/6*H21b(8,6,7,plext.plext)*F^{-3} \\
& 3*\sin x^4*\cos x*m83^{-1} - 1/6*H21b(8,6,7,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} \\
& 1 + 9/32*H21b(8,6,7,1,plext.plext)*F^{-3}*\cos x - 5/24*H21b(8,6,7,1,plext.plext)*F^{-3} \\
& 3*\sin x*\sqrt{3} - 1/4*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 7/24*H21b(8,6,7,1,plext.plext)*F^{-3} \\
& 3*\sin x^3*\sqrt{3} + 1/12*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin x^4*\cos x - \\
& 1/12*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} + 22/27*HH1b(1,2,3,plext.plext)*F^{-3} \\
& 3*\sin x^2*\cos x*m83^{-1} - 8/9*HH1b(1,2,3,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& 1 + 2*HH1b(1,2,3,1,plext.plext)*F^{-3}*\cos x + 2/3*HH1b(1,2,3,1,plext.plext)*F^{-3} \\
& 3*\sin x^2*\cos x - 4/9*HH1b(1,2,3,1,plext.plext)*F^{-3}*\sin x^4*\cos x - 34/27*HH1b(1,2,8,plext.plext)*F^{-3} \\
& 3*\sin x^2*\cos x*m83^{-1} + 8/9*HH1b(1,2,8,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& 1 - 8/9*HH1b(1,2,8,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 4/9*HH1b(1,2,8,1,plext.plext)*F^{-3} \\
& 3*\sin x^4*\cos x - 1/3*HH1b(1,5,6,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 10/9*HH1b(1,5,6,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 2/9*HH1b(1,5,6,plext.plext)*F^{-3} \\
& 3*\sin x^3*\sqrt{3}*m83^{-1} + 1/2*HH1b(1,5,6,1,plext.plext)*F^{-3}*\cos x - \\
& 1/9*HH1b(1,5,6,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 5/9*HH1b(1,5,6,1,plext.plext)*F^{-3} \\
& 3*\sin x^2*\cos x + 1/9*HH1b(1,5,6,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + \\
& 22/27*HH1b(2,1,3,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 8/9*HH1b(2,1,3,plext.plext)*F^{-3} \\
& 3*\sin x^4*\cos x*m83^{-1} + 2*HH1b(2,1,3,1,plext.plext)*F^{-3}*\cos x + 2/3*HH1b(2,1,3,1,plext.plext)*F^{-3} \\
& 3*\sin x^2*\cos x - 4/9*HH1b(2,1,3,1,plext.plext)*F^{-3}*\sin x^4*\cos x - 34/27*HH1b(2,1,8,plext.plext)*F^{-3} \\
& 3*\sin x^2*\cos x*m83^{-1} + 8/9*HH1b(2,1,8,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& 1 - 8/9*HH1b(2,1,8,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 4/9*HH1b(2,1,8,1,plext.plext)*F^{-3} \\
& 3*\sin x^4*\cos x - 1/3*HH1b(2,4,7,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 10/9*HH1b(2,4,7,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 2/9*HH1b(2,4,7,plext.plext)*F^{-3} \\
& 3*\sin x^3*\sqrt{3}*m83^{-1} + 1/2*HH1b(2,4,7,1,plext.plext)*F^{-3}*\cos x - \\
& 1/9*HH1b(2,4,7,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 5/9*HH1b(2,4,7,1,plext.plext)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3*\sin x^2*\cos x + 1/9*HH1b(2,4,7,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + \\
& 8/27*HH1b(3,4,5,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 61/27*HH1b(3,4,5,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/3*HH1b(3,4,5,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} \\
& 1 + 4/3*HH1b(3,4,5,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} + 4/27*HH1b(3,4,5,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - 1/4*HH1b(3,4,5,1,plext.plext)*F^{-3}*\cos x - \\
& 13/9*HH1b(3,4,5,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 2/27*HH1b(3,4,5,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + 2/3*HH1b(3,4,5,1,plext.plext)*F^{-3}*\sin x^4*\cos x + \\
& 2/27*HH1b(3,4,5,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} - 8/27*HH1b(3,6,7,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 61/27*HH1b(3,6,7,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& 1 + 1/3*HH1b(3,6,7,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 4/3*HH1b(3,6,7,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} - 4/27*HH1b(3,6,7,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} \\
& 1 - 1/4*HH1b(3,6,7,1,plext.plext)*F^{-3}*\cos x - 13/9*HH1b(3,6,7,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 2/27*HH1b(3,6,7,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + \\
& 2/3*HH1b(3,6,7,1,plext.plext)*F^{-3}*\sin x^4*\cos x - 2/27*HH1b(3,6,7,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} - 2/3*HH1b(4,2,7,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + \\
& 4/9*HH1b(4,2,7,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 2/9*HH1b(4,2,7,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 2/9*HH1b(4,2,7,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + 13/27*HH1b(4,5,8,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 55/27*HH1b(4,5,8,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& 1 - 5/9*HH1b(4,5,8,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 4/3*HH1b(4,5,8,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} + 4/27*HH1b(4,5,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} \\
& 1 + 1/4*HH1b(4,5,8,1,plext.plext)*F^{-3}*\cos x + 1/9*HH1b(4,5,8,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 4/3*HH1b(4,5,8,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 5/27*HH1b(4,5,8,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + \\
& 2/3*HH1b(4,5,8,1,plext.plext)*F^{-3}*\sin x^4*\cos x + 2/27*HH1b(4,5,8,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} - 2/3*HH1b(5,1,6,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 4/9*HH1b(5,1,6,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} \\
& 1 - 2/9*HH1b(5,1,6,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 2/9*HH1b(5,1,6,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + 13/27*HH1b(5,4,8,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 55/27*HH1b(5,4,8,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 5/9*HH1b(5,4,8,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 4/3*HH1b(5,4,8,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& 1 + 4/27*HH1b(5,4,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 1/4*HH1b(5,4,8,1,plext.plext)*F^{-3}*\cos x + 1/9*HH1b(5,4,8,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 4/3*HH1b(5,4,8,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 5/27*HH1b(5,4,8,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + \\
& 2/3*HH1b(5,4,8,1,plext.plext)*F^{-3}*\sin x^4*\cos x + 2/27*HH1b(5,4,8,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} - 13/27*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 55/27*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 5/9*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 4/3*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& 1 - 4/27*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 1/4*HH1b(6,7,8,1,plext.plext)*F^{-3}*\cos x - 1/9*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 4/3*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 5/27*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + \\
& 2/3*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin x^4*\cos x - 2/27*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} - 13/27*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 55/27*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 5/9*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 4/3*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& 1 - 4/27*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 1/4*HH1b(7,6,8,1,plext.plext)*F^{-3}*\cos x - 1/9*HH1b(7,6,8,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 4/3*HH1b(7,6,8,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 5/27*HH1b(7,6,8,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} +
\end{aligned}$$

$$\begin{aligned}
& 2/3^*HH1b(7,6,8,1,plext.plext)^*F^{-3}*sinx^4*cosx - 2/27^*HH1b(7,6,8,1,plext.plext)^*F^{-3}*sinx^5*sqrt3) \\
& + mpp2^2*mkp2 * (+ 1/144^*C*ln(1)^*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-1} \\
& + 1/432^*C*ln(3)^*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-1} - 1/216^*C*ln(3)^*F^{-3}*sinx^4*cosx*pi^{-4}*m83^{-1} - 1/4320^*C*ln(4)^*F^{-3}*sinx*sqrt3*pi^{-4}*m83^{-1} \\
& - 1/288^*C*ln(4)^*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-1} - 1/864^*C*ln(4)^*F^{-3}*sinx^3*sqrt3*pi^{-4}*m83^{-1} + 1/4320^*C*ln(6)^*F^{-3}*sinx*sqrt3*pi^{-4}*m83^{-1} \\
& - 1/288^*C*ln(6)^*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-1} + 1/864^*C*ln(6)^*F^{-3}*sinx^3*sqrt3*pi^{-4}*m83^{-1} - 1/432^*C*ln(8)^*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-1} \\
& + 1/216^*C*ln(8)^*F^{-3}*sinx^4*cosx*pi^{-4}*m83^{-1} + 49/10368*ln(1)^*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-1} + 8/3*ln(1)^*F^{-3}*sinx^2*cosx*pi^{-2}*L8r*m38^{-1} \\
& + 208/27*ln(1)^*F^{-3}*sinx^2*cosx*pi^{-2}*L8r*m83^{-1} + 64/9*ln(1)^*F^{-3}*sinx^2*cosx*pi^{-2}*L7r*m38^{-1} + 176/9*ln(1)^*F^{-3}*sinx^2*cosx*pi^{-2}*L7r*m83^{-1} \\
& + 8/9*ln(1)^*F^{-3}*sinx^2*cosx*pi^{-2}*L6r*m38^{-1} - 40/9*ln(1)^*F^{-3}*sinx^2*cosx*pi^{-2}*L6r*m83^{-1} - 4/27*ln(1)^*F^{-3}*sinx^2*cosx*pi^{-2}*L5r*m38^{-1} \\
& - 34/27*ln(1)^*F^{-3}*sinx^2*cosx*pi^{-2}*L5r*m83^{-1} - 4/9*ln(1)^*F^{-3}*sinx^2*cosx*pi^{-2}*L4r*m38^{-1} + 14/9*ln(1)^*F^{-3}*sinx^2*cosx*pi^{-2}*L4r*m83^{-1} \\
& + 1/3*ln(1)^*F^{-3}*sinx^2*cosx*pi^{-2}*L3r*m83^{-1} + 1/162*ln(1)^*F^{-3}*sinx^4*cosx*pi^{-4}*m83^{-1} - 128/27*ln(1)^*F^{-3}*sinx^4*cosx*pi^{-2}*L8r*m38^{-1} \\
& + 64/9*ln(1)^*F^{-3}*sinx^4*cosx*pi^{-2}*L8r*m83^{-1} - 128/9*ln(1)^*F^{-3}*sinx^4*cosx*pi^{-2}*L7r*m38^{-1} + 64/3*ln(1)^*F^{-3}*sinx^4*cosx*pi^{-2}*L7r*m83^{-1} \\
& + 1/864*ln(1)^2*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-1} - 7/3456*ln(1)*ln(3)^*F^{-3}*sinx^2*cosx*pi^{-4}*m38^{-1} + 449/103680*ln(1)*ln(3)^*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-1} \\
& + 1/648*ln(1)*ln(3)^*F^{-3}*sinx^4*cosx*pi^{-4}*m38^{-1} + 29/2592*ln(1)*ln(3)^*F^{-3}*sinx^4*cosx*pi^{-4}*m83^{-1} + 1/648*ln(1)*ln(3)^*F^{-3}*sinx^6*cosx*pi^{-4}*m38^{-1} \\
& - 17/1296*ln(1)*ln(3)^*F^{-3}*sinx^6*cosx*pi^{-4}*m83^{-1} - 19/13824*ln(1)*ln(4)^*F^{-3}*sinx*sqrt3*pi^{-4}*m38^{-1} - 1099/414720*ln(1)*ln(4)^*F^{-3}*sinx*sqrt3*pi^{-4}*m83^{-1} \\
& - 1/576*ln(1)*ln(4)^*F^{-3}*sinx^2*cosx*pi^{-4}*m38^{-1} + 1/576*ln(1)*ln(4)^*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-1} + 1/288*ln(1)*ln(4)^*F^{-3}*sinx^3*sqrt3*pi^{-4}*m38^{-1} \\
& - 11/10368*ln(1)*ln(4)^*F^{-3}*sinx^3*sqrt3*pi^{-4}*m83^{-1} + 1/216*ln(1)*ln(4)^*F^{-3}*sinx^4*cosx*pi^{-4}*m38^{-1} - 1/144*ln(1)*ln(4)^*F^{-3}*sinx^4*cosx*pi^{-4}*m83^{-1} \\
& - 1/432*ln(1)*ln(4)^*F^{-3}*sinx^5*sqrt3*pi^{-4}*m38^{-1} + 1/288*ln(1)*ln(4)^*F^{-3}*sinx^5*sqrt3*pi^{-4}*m83^{-1} + 19/13824*ln(1)*ln(6)^*F^{-3}*sinx*sqrt3*pi^{-4}*m38^{-1} \\
& + 1099/414720*ln(1)*ln(6)^*F^{-3}*sinx*sqrt3*pi^{-4}*m83^{-1} - 1/576*ln(1)*ln(6)^*F^{-3}*sinx^2*cosx*pi^{-4}*m38^{-1} + 1/576*ln(1)*ln(6)^*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-1} \\
& - 1/288*ln(1)*ln(6)^*F^{-3}*sinx^3*sqrt3*pi^{-4}*m38^{-1} + 11/10368*ln(1)*ln(6)^*F^{-3}*sinx^3*sqrt3*pi^{-4}*m83^{-1} + 1/216*ln(1)*ln(6)^*F^{-3}*sinx^4*cosx*pi^{-4}*m38^{-1} \\
& - 1/144*ln(1)*ln(6)^*F^{-3}*sinx^4*cosx*pi^{-4}*m83^{-1} + 1/432*ln(1)*ln(6)^*F^{-3}*sinx^5*sqrt3*pi^{-4}*m38^{-1} - 1/288*ln(1)*ln(6)^*F^{-3}*sinx^5*sqrt3*pi^{-4}*m83^{-1} \\
& - 19/10368*ln(1)*ln(8)^*F^{-3}*sinx^2*cosx*pi^{-4}*m38^{-1} + 871/103680*ln(1)*ln(8)^*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-1} + 1/216*ln(1)*ln(8)^*F^{-3}*sinx^4*cosx*pi^{-4}*m38^{-1} \\
& - 53/2592*ln(1)*ln(8)^*F^{-3}*sinx^4*cosx*pi^{-4}*m83^{-1} - 1/648*ln(1)*ln(8)^*F^{-3}*sinx^6*cosx*pi^{-4}*m38^{-1} + 17/1296*ln(1)*ln(8)^*F^{-3}*sinx^6*cosx*pi^{-4}*m83^{-1} \\
& - 1/648*ln(3)^*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-1} - 8/3*ln(3)^*F^{-3}*sinx^2*cosx*pi^{-2}*L8r*m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1 - 32/9*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1} - 16/9*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1} + 14/27*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1} + 2/3*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1} + 1/324*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 368/27*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1} - 1 - 448/9*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1} + 32/9*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-1} - 28/27*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-1} - 4/3*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-1} + 512/27*\ln(3)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-1} + 512/9*\ln(3)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-1} + 67/41472*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 23/2592*\ln(3)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 31/2592*\ln(3)^2*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} - 11/82944*\ln(3)*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 7/6912*\ln(3)*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m38^{-1} - 929/207360*\ln(3)*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 41/20736*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1} + 361/207360*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/1296*\ln(3)*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m38^{-1} + 91/5184*\ln(3)*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 7/2592*\ln(3)*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m38^{-1} + 1/432*\ln(3)*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/1296*\ln(3)*\ln(4)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m38^{-1} - 31/2592*\ln(3)*\ln(4)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} + 1/1296*\ln(3)*\ln(4)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m38^{-1} - 1/2592*\ln(3)*\ln(4)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1} + 11/82944*\ln(3)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 7/6912*\ln(3)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m38^{-1} - 929/207360*\ln(3)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 41/20736*\ln(3)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1} - 361/207360*\ln(3)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/1296*\ln(3)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m38^{-1} + 91/5184*\ln(3)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 7/2592*\ln(3)*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m38^{-1} - 1/1296*\ln(3)*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/432*\ln(3)*\ln(6)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m38^{-1} - 31/2592*\ln(3)*\ln(6)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} - 1/1296*\ln(3)*\ln(6)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m38^{-1} + 1/2592*\ln(3)*\ln(6)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/648*\ln(3)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 1/1296*\ln(3)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} - 23/13824*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/6*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m38^{-1} - 101/18*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} + 4/9*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m38^{-1} - 86/9*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} - 1/18*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m38^{-1} - 13/18*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} - 1/108*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m38^{-1} + 11/9*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} + 1/36*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m38^{-1} + 5/18*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} + 1/18*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} - 49/20736*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 4/3*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m38^{-1} - 104/27*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1} - 32/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m38^{-1} - 88/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1} - 4/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m38^{-1} + 20/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1} + 2/27*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m38^{-1} + 17/27*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1} +
\end{aligned}$$

$$\begin{aligned}
& 2/9*\ln(4)*F^{-3}*\sin^2*\cos^*\pi^{-2}*L4r*m38^{-1} - 7/9*\ln(4)*F^{-3}*\sin^2*\cos^*\pi^{-2} \\
& - 2*L4r*m83^{-1} - 1/6*\ln(4)*F^{-3}*\sin^2*\cos^*\pi^{-2}*L3r*m83^{-1} + 91/20736*\ln(4)*F^{-3} \\
& - 3*\sin^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 64/27*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L8r*m38^{-1} \\
& + 28/3*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} - 64/9*\ln(4)*F^{-3} \\
& - 3*\sin^3*\sqrt{3}*\pi^{-2}*L7r*m38^{-1} + 184/9*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2} \\
& - 2*L7r*m83^{-1} + 8/9*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} - 31/27*\ln(4)*F^{-3} \\
& - 3*\sin^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} - 1/3*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2} \\
& - 2*L4r*m83^{-1} - 1/18*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} - 1/324*\ln(4)*F^{-3} \\
& - 3*\sin^4*\cos^*\pi^{-4}*m83^{-1} + 64/27*\ln(4)*F^{-3}*\sin^4*\cos^*\pi^{-2}*L8r*m38^{-1} \\
& - 32/9*\ln(4)*F^{-3}*\sin^4*\cos^*\pi^{-2}*L8r*m83^{-1} + 64/9*\ln(4)*F^{-3} \\
& - 3*\sin^4*\cos^*\pi^{-2}*L7r*m38^{-1} - 32/3*\ln(4)*F^{-3}*\sin^4*\cos^*\pi^{-2} \\
& - 2*L7r*m83^{-1} - 1/324*\ln(4)*F^{-3}*\sin^5*\sqrt{3}*\pi^{-4}*m83^{-1} + 64/27*\ln(4)*F^{-3} \\
& - 3*\sin^5*\sqrt{3}*\pi^{-2}*L8r*m38^{-1} - 32/9*\ln(4)*F^{-3}*\sin^5*\sqrt{3}*\pi^{-2} \\
& - 2*L8r*m83^{-1} + 64/9*\ln(4)*F^{-3}*\sin^5*\sqrt{3}*\pi^{-2}*L7r*m38^{-1} - 32/3*\ln(4)*F^{-3} \\
& - 3*\sin^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} + 1/1728*\ln(4)^2*F^{-3}*\sin^*\sqrt{3}*\pi^{-4} \\
& - 4*m38^{-1} - 7/10368*\ln(4)^2*F^{-3}*\sin^*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/576*\ln(4)^2*F^{-3} \\
& - 3*\sin^2*\cos^*\pi^{-4}*m38^{-1} - 5/3456*\ln(4)^2*F^{-3}*\sin^2*\cos^*\pi^{-4}*m83^{-1} \\
& + 1/1728*\ln(4)^2*F^{-3}*\sin^3*\sqrt{3}*\pi^{-4}*m38^{-1} - 11/10368*\ln(4)^2*F^{-3} \\
& - 3*\sin^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/288*\ln(4)^2*F^{-3}*\sin^4*\cos^*\pi^{-4}*m38^{-1} \\
& + 1/192*\ln(4)^2*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-1} - 1/864*\ln(4)^2*F^{-3} \\
& - 3*\sin^5*\sqrt{3}*\pi^{-4}*m38^{-1} + 1/576*\ln(4)^2*F^{-3}*\sin^5*\sqrt{3}*\pi^{-4} \\
& - 4*m83^{-1} - 1/576*\ln(4)*\ln(6)*F^{-3}*\sin^2*\cos^*\pi^{-4}*m83^{-1} - 1/432*\ln(4)*\ln(6)*F^{-3} \\
& - 3*\sin^4*\cos^*\pi^{-4}*m38^{-1} + 1/288*\ln(4)*\ln(6)*F^{-3}*\sin^4*\cos^*\pi^{-4} \\
& - 4*m83^{-1} - 5/82944*\ln(4)*\ln(8)*F^{-3}*\sin^*\sqrt{3}*\pi^{-4}*m38^{-1} - 1489/414720*\ln(4)*\ln(8)*F^{-3} \\
& - 3*\sin^*\sqrt{3}*\pi^{-4}*m83^{-1} + 19/20736*\ln(4)*\ln(8)*F^{-3}*\sin^2*\cos^*\pi^{-4}*m83^{-1} \\
& + 23/20736*\ln(4)*\ln(8)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-4}*m38^{-1} + 31/23040*\ln(4)*\ln(8)*F^{-3} \\
& - 3*\sin^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/432*\ln(4)*\ln(8)*F^{-3}*\sin^4*\cos^*\pi^{-4} \\
& - 4*m38^{-1} - 67/5184*\ln(4)*\ln(8)*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-1} - 1/2592*\ln(4)*\ln(8)*F^{-3} \\
& - 3*\sin^5*\sqrt{3}*\pi^{-4}*m38^{-1} + 1/432*\ln(4)*\ln(8)*F^{-3}*\sin^5*\sqrt{3}*\pi^{-4} \\
& - 4*m83^{-1} + 1/1296*\ln(4)*\ln(8)*F^{-3}*\sin^6*\cos^*\pi^{-4}*m38^{-1} + 31/2592*\ln(4)*\ln(8)*F^{-3} \\
& - 3*\sin^6*\cos^*\pi^{-4}*m83^{-1} - 1/1296*\ln(4)*\ln(8)*F^{-3}*\sin^7*\sqrt{3}*\pi^{-4} \\
& - 4*m38^{-1} + 1/2592*\ln(4)*\ln(8)*F^{-3}*\sin^7*\sqrt{3}*\pi^{-4}*m83^{-1} + 23/13824*\ln(6)*F^{-3} \\
& - 3*\sin^*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/6*\ln(6)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L8r*m38^{-1} \\
& + 101/18*\ln(6)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} - 4/9*\ln(6)*F^{-3} \\
& - 3*\sin^*\sqrt{3}*\pi^{-2}*L7r*m38^{-1} + 86/9*\ln(6)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} \\
& + 1/18*\ln(6)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L6r*m38^{-1} + 13/18*\ln(6)*F^{-3} \\
& - 3*\sin^*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} + 1/108*\ln(6)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L5r*m38^{-1} \\
& - 11/9*\ln(6)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} - 1/36*\ln(6)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2} \\
& - 2*L4r*m38^{-1} - 5/18*\ln(6)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} - 1/18*\ln(6)*F^{-3} \\
& - 3*\sin^*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} - 49/20736*\ln(6)*F^{-3}*\sin^2*\cos^*\pi^{-4} \\
& - 4*m83^{-1} - 4/3*\ln(6)*F^{-3}*\sin^2*\cos^*\pi^{-2}*L8r*m38^{-1} - 104/27*\ln(6)*F^{-3} \\
& - 3*\sin^2*\cos^*\pi^{-2}*L8r*m83^{-1} - 32/9*\ln(6)*F^{-3}*\sin^2*\cos^*\pi^{-2} \\
& - 2*L7r*m38^{-1} - 88/9*\ln(6)*F^{-3}*\sin^2*\cos^*\pi^{-2}*L7r*m83^{-1} - 4/9*\ln(6)*F^{-3} \\
& - 3*\sin^2*\cos^*\pi^{-2}*L6r*m38^{-1} + 20/9*\ln(6)*F^{-3}*\sin^2*\cos^*\pi^{-2} \\
& - 2*L6r*m83^{-1} + 2/27*\ln(6)*F^{-3}*\sin^2*\cos^*\pi^{-2}*L5r*m38^{-1} + 17/27*\ln(6)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-1} + 2/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m38^{-1} - 7/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-1} - 1/6 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L3r * m83^{-1} - 91/20736 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L8r * m38^{-1} + 64/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L8r * m38^{-1} - 28/3 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L8r * m83^{-1} + 64/9 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L7r * m38^{-1} - 184/9 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L7r * m83^{-1} - 8/9 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L6r * m83^{-1} + 31/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L5r * m83^{-1} + 1/3 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L4r * m83^{-1} + 1/18 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L3r * m83^{-1} - 1/324 * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m38^{-1} + 64/27 * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m38^{-1} - 32/9 * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-1} + 64/9 * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m38^{-1} - 32/3 * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-1} + 1/324 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L8r * m38^{-1} - 64/27 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L8r * m38^{-1} + 32/9 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L8r * m83^{-1} - 64/9 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L7r * m38^{-1} + 32/3 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L7r * m83^{-1} - 1/1728 * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m38^{-1} + 7/10368 * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/576 * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m38^{-1} - 5/3456 * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 1/1728 * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m38^{-1} + 11/10368 * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 1/288 * \ln(6)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m38^{-1} + 1/192 * \ln(6)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 1/864 * \ln(6)^2 * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m38^{-1} - 1/576 * \ln(6)^2 * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} + 5/82944 * \ln(6) * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m38^{-1} + 1489/414720 * \ln(6) * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 19/20736 * \ln(6) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m38^{-1} - 391/207360 * \ln(6) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 23/20736 * \ln(6) * \ln(8) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m38^{-1} - 31/23040 * \ln(6) * \ln(8) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 1/432 * \ln(6) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m38^{-1} - 67/5184 * \ln(6) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 1/2592 * \ln(6) * \ln(8) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m38^{-1} - 1/432 * \ln(6) * \ln(8) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/1296 * \ln(6) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m38^{-1} + 1/1296 * \ln(6) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-1} - 1/648 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 8/3 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-1} + 32/9 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-1} + 16/9 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-1} - 14/27 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-1} - 2/3 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-1} - 1/324 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 368/27 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-1} + 448/9 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-1} - 32/9 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L6r * m83^{-1} + 28/27 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L5r * m83^{-1} + 4/3 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L4r * m83^{-1} - 512/27 * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L8r * m83^{-1} - 512/9 * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L7r * m83^{-1} - 5/4608 * \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 1/96 * \ln(8)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 11/864 * \ln(8)^2 * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} + 1/2048 / (\text{mass}(1)) * \ln(1)^2 * F^{-3} * \cos x * \pi^{-4} + 1/1920 / (\text{mass}(1)) * \ln(1)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} + 1/2048 / (\text{mass}(2)) * \ln(1)^2 * F^{-3} * \cos x * \pi^{-4} + 1/11520 / (\text{mass}(2)) * \ln(1)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} + 1/2160 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} - 1/1080 / (\text{mass}(3)) * \ln(3)^2 * F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^4*\cos x*\pi^{-4} + 1/4608/(\text{mass}(4))^*\ln(4)^2*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4} - \\
& 1/3840/(\text{mass}(4))^*\ln(4)^2*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/4608/(\text{mass}(4))^*\ln(4)^2*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + \\
& 1/1728/(\text{mass}(5))^*\ln(4)^2*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 1/23040/(\text{mass}(5))^*\ln(4)^2*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4} - \\
& 1/1728/(\text{mass}(5))^*\ln(4)^2*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/4608/(\text{mass}(6))^*\ln(6)^2*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4} - \\
& 1/3840/(\text{mass}(6))^*\ln(6)^2*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/4608/(\text{mass}(6))^*\ln(6)^2*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - \\
& 1/1728/(\text{mass}(7))^*\ln(6)^2*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 1/23040/(\text{mass}(7))^*\ln(6)^2*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4} + \\
& 1/1728/(\text{mass}(7))^*\ln(6)^2*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/6144/(\text{mass}(8))^*\ln(8)^2*\text{F}^{-3}*\cos x*\pi^{-4} - \\
& 1/2160/(\text{mass}(8))^*\ln(8)^2*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/1080/(\text{mass}(8))^*\ln(8)^2*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-4}) \\
& + \text{mpp}^2*\text{m}^2*\text{m}^2 * (- 57344/3*\text{F}^{-3}*\sin x^2*\cos x*\text{L}8\text{r}^2*\text{m}83^{-2} - \\
& 1040384/9*\text{F}^{-3}*\sin x^2*\cos x*\text{L}7\text{r}*\text{L}8\text{r}*\text{m}83^{-2} - 524288/3*\text{F}^{-3}*\sin x^2*\cos x*\text{L}7\text{r}^2*\text{m}83^{-2} \\
& + 8192/9*\text{F}^{-3}*\sin x^2*\cos x*\text{L}6\text{r}*\text{L}8\text{r}*\text{m}83^{-2} + 8192/3*\text{F}^{-3}*\sin x^2*\cos x*\text{L}6\text{r}*\text{L}7\text{r}*\text{m}83^{-2} \\
& - 4096/27*\text{F}^{-3}*\sin x^2*\cos x*\text{L}5\text{r}*\text{L}8\text{r}*\text{m}83^{-2} - 4096/9*\text{F}^{-3}*\sin x^2*\cos x*\text{L}5\text{r}*\text{L}7\text{r}*\text{m}83^{-2} \\
& - 4096/9*\text{F}^{-3}*\sin x^2*\cos x*\text{L}4\text{r}*\text{L}8\text{r}*\text{m}83^{-2} - 4096/3*\text{F}^{-3}*\sin x^2*\cos x*\text{L}4\text{r}*\text{L}7\text{r}*\text{m}83^{-2} \\
& + 262144/9*\text{F}^{-3}*\sin x^4*\cos x*\text{L}8\text{r}^2*\text{m}83^{-2} + 524288/3*\text{F}^{-3}*\sin x^4*\cos x*\text{L}7\text{r}*\text{L}8\text{r}*\text{m}83^{-2} \\
& + 262144*\text{F}^{-3}*\sin x^4*\cos x*\text{L}7\text{r}^2*\text{m}83^{-2} - 1/324*\text{C}*\ln(3)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*\text{m}83^{-2} \\
& - 1/288*\text{C}*\ln(4)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4}*\text{m}83^{-2} + 1/288*\text{C}*\ln(6)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4}*\text{m}83^{-2} \\
& + 1/324*\text{C}*\ln(8)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*\text{m}83^{-2} + 496/27*\ln(1)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*\text{L}8\text{r}*\text{m}83^{-2} \\
& + 160/3*\ln(1)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*\text{L}7\text{r}*\text{m}83^{-2} + 16/9*\ln(1)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*\text{L}6\text{r}*\text{m}83^{-2} \\
& - 8/27*\ln(1)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*\text{L}5\text{r}*\text{m}83^{-2} - 8/9*\ln(1)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*\text{L}4\text{r}*\text{m}83^{-2} \\
& - 128/9*\ln(1)*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-2}*\text{L}8\text{r}*\text{m}83^{-2} - 128/3*\ln(1)*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-2}*\text{L}7\text{r}*\text{m}83^{-2} \\
& - 1/162*\ln(1)*\ln(3)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*\text{m}83^{-2} - 11/648*\ln(1)*\ln(3)*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-4}*\text{m}83^{-2} \\
& + 1/54*\ln(1)*\ln(3)*\text{F}^{-3}*\sin x^6*\cos x*\pi^{-4}*\text{m}83^{-2} + 11/5184*\ln(1)*\ln(4)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4}*\text{m}83^{-2} \\
& - 7/432*\ln(1)*\ln(4)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*\text{m}83^{-2} + 1/72*\ln(1)*\ln(4)*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-4}*\text{m}83^{-2} \\
& + 1/72*\ln(1)*\ln(4)*\text{F}^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*\text{m}83^{-2} - 11/5184*\ln(1)*\ln(6)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4}*\text{m}83^{-2} \\
& - 7/432*\ln(1)*\ln(6)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*\text{m}83^{-2} + 7/432*\ln(1)*\ln(6)*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*\text{m}83^{-2} \\
& + 1/72*\ln(1)*\ln(6)*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-4}*\text{m}83^{-2} - 1/72*\ln(1)*\ln(6)*\text{F}^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*\text{m}83^{-2} \\
& - 1/54*\ln(1)*\ln(8)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*\text{m}83^{-2} + 23/648*\ln(1)*\ln(8)*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-4}*\text{m}83^{-2} \\
& - 1/54*\ln(1)*\ln(8)*\text{F}^{-3}*\sin x^6*\cos x*\pi^{-4}*\text{m}83^{-2} + 208/9*\ln(3)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*\text{L}8\text{r}*\text{m}83^{-2} \\
& + 1840/27*\ln(3)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*\text{L}7\text{r}*\text{m}83^{-2} + 16/27*\ln(3)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*\text{L}6\text{r}*\text{m}83^{-2} \\
& + 8/27*\ln(3)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*\text{L}4\text{r}*\text{m}83^{-2} - 1312/81*\ln(3)*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-2}*\text{L}8\text{r}*\text{m}83^{-2} \\
& - 1280/27*\ln(3)*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-2}*\text{L}7\text{r}*\text{m}83^{-2} - 32/27*\ln(3)*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-2}*\text{L}6\text{r}*\text{m}83^{-2} \\
& + 16/81*\ln(3)*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-2}*\text{L}5\text{r}*\text{m}83^{-2} + 16/27*\ln(3)*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-2}*\text{L}4\text{r}*\text{m}83^{-2} \\
& - 512/27*\ln(3)*\text{F}^{-3}*\sin x^6*\cos x*\pi^{-2}*\text{L}8\text{r}*\text{m}83^{-2} - 512/9*\ln(3)*\text{F}^{-3}*\sin x^6*\cos x*\pi^{-2}*\text{L}7\text{r}*\text{m}83^{-2} \\
& - 49/7776*\ln(3)^2*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*\text{m}83^{-2} - 1/162*\ln(3)^2*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-4}*\text{m}83^{-2} \\
& + 11/486*\ln(3)^2*\text{F}^{-3}*\sin x^6*\cos x*\pi^{-4}*\text{m}83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2 - 1/162*\ln(3)^2*F^{-3}*\sinx^8*\cosx*\pi^{-4}*m83^{-2} - 5/1944*\ln(3)*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& - 11/576*\ln(3)*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-2} - 47/5184*\ln(3)*\ln(4)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/216*\ln(3)*\ln(4)*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-2} \\
& + 41/1944*\ln(3)*\ln(4)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/108*\ln(3)*\ln(4)*F^{-3}*\sinx^6*\cosx*\pi^{-4}*m83^{-2} - 1/108*\ln(3)*\ln(4)*F^{-3}*\sinx^7*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 5/1944*\ln(3)*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-2} - 11/576*\ln(3)*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-2} + 47/5184*\ln(3)*\ln(6)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 5/216*\ln(3)*\ln(6)*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-2} - 41/1944*\ln(3)*\ln(6)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/108*\ln(3)*\ln(6)*F^{-3}*\sinx^6*\cosx*\pi^{-4}*m83^{-2} \\
& + 1/108*\ln(3)*\ln(6)*F^{-3}*\sinx^7*\sqrt{3}*\pi^{-4}*m83^{-2} - 23/1296*\ln(3)*\ln(8)*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-2} + 11/324*\ln(3)*\ln(8)*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-2} \\
& - 5/243*\ln(3)*\ln(8)*F^{-3}*\sinx^6*\cosx*\pi^{-4}*m83^{-2} + 1/81*\ln(3)*\ln(8)*F^{-3}*\sinx^8*\cosx*\pi^{-4}*m83^{-2} + 388/81*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} \\
& + 352/27*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 2/9*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} + 4/27*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} + 1/9*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} \\
& + 784/27*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L8r*m83^{-2} + 800/9*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L7r*m83^{-2} - 16/9*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L6r*m83^{-2} \\
& + 8/27*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L5r*m83^{-2} + 8/9*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L4r*m83^{-2} + 224/81*\ln(4)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} \\
& - 224/27*\ln(4)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 448/9*\ln(4)*F^{-3}*\sinx^4*\cosx*\pi^{-2}*L8r*m83^{-2} - 448/3*\ln(4)*F^{-3}*\sinx^4*\cosx*\pi^{-2}*L7r*m83^{-2} \\
& - 64/9*\ln(4)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 64/3*\ln(4)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 1/13824*\ln(4)^2*F^{-3}*\cosx*\pi^{-4}*m83^{-2} \\
& - 55/10368*\ln(4)^2*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-2} - 7/432*\ln(4)^2*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-2} + 7/1296*\ln(4)^2*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 1/6912*\ln(4)^2*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-2} + 1/6912*\ln(4)^2*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/432*\ln(4)*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-2} \\
& + 1/36*\ln(4)*\ln(6)*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-2} - 13/3456*\ln(4)*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-2} - 31/1728*\ln(4)*\ln(8)*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-2} \\
& + 85/15552*\ln(4)*\ln(8)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/24*\ln(4)*\ln(8)*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-2} - 23/1944*\ln(4)*\ln(8)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& - 1/108*\ln(4)*\ln(8)*F^{-3}*\sinx^6*\cosx*\pi^{-4}*m83^{-2} - 1/108*\ln(4)*\ln(8)*F^{-3}*\sinx^7*\sqrt{3}*\pi^{-4}*m83^{-2} - 388/81*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} \\
& - 352/27*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 2/9*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} - 4/27*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} - 1/9*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} \\
& + 784/27*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L8r*m83^{-2} + 800/9*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L7r*m83^{-2} - 16/9*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L6r*m83^{-2} + 8/27*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L5r*m83^{-2} \\
& + 8/9*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L4r*m83^{-2} - 224/81*\ln(6)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 224/27*\ln(6)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 448/9*\ln(6)*F^{-3}*\sinx^4*\cosx*\pi^{-2}*L8r*m83^{-2} \\
& - 448/3*\ln(6)*F^{-3}*\sinx^4*\cosx*\pi^{-2}*L7r*m83^{-2} + 64/9*\ln(6)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 64/3*\ln(6)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 1/13824*\ln(6)^2*F^{-3}*\cosx*\pi^{-4}*m83^{-2} \\
& + 55/10368*\ln(6)^2*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& - \frac{7}{432} \ln(6)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} - \frac{7}{1296} \ln(6)^2 F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-2} + \frac{1}{36} \ln(6)^2 F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-2} \\
& + \frac{13}{3456} \ln(6) \ln(8) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - \frac{31}{1728} \ln(6) \ln(8) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} - \frac{85}{15552} \ln(6) \ln(8) F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-2} \\
& + \frac{1}{24} \ln(6) \ln(8) F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-2} + \frac{23}{1944} \ln(6) \ln(8) F^{-3} \sin x^5 \sqrt{3} \pi^{-4} m83^{-2} - \frac{1}{108} \ln(6) \ln(8) F^{-3} \sin x^6 \cos x \pi^{-4} m83^{-2} \\
& - \frac{1}{108} \ln(6) \ln(8) F^{-3} \sin x^7 \sqrt{3} \pi^{-4} m83^{-2} + \frac{2128}{81} \ln(8) F^{-3} \sin x^2 \cos x \pi^{-2} L8r m83^{-2} + \frac{2192}{27} \ln(8) F^{-3} \sin x^2 \cos x \pi^{-2} L7r m83^{-2} \\
& - \frac{16}{9} \ln(8) F^{-3} \sin x^2 \cos x \pi^{-2} L6r m83^{-2} + \frac{16}{81} \ln(8) F^{-3} \sin x^2 \cos x \pi^{-2} L5r m83^{-2} + \frac{8}{27} \ln(8) F^{-3} \sin x^2 \cos x \pi^{-2} L4r m83^{-2} \\
& - \frac{4832}{81} \ln(8) F^{-3} \sin x^4 \cos x \pi^{-2} L8r m83^{-2} - \frac{4864}{27} \ln(8) F^{-3} \sin x^4 \cos x \pi^{-2} L7r m83^{-2} + \frac{32}{27} \ln(8) F^{-3} \sin x^4 \cos x \pi^{-2} L6r m83^{-2} \\
& - \frac{16}{81} \ln(8) F^{-3} \sin x^4 \cos x \pi^{-2} L5r m83^{-2} - \frac{16}{27} \ln(8) F^{-3} \sin x^4 \cos x \pi^{-2} L4r m83^{-2} + \frac{512}{27} \ln(8) F^{-3} \sin x^6 \cos x \pi^{-2} L8r m83^{-2} \\
& + \frac{512}{9} \ln(8) F^{-3} \sin x^6 \cos x \pi^{-2} L7r m83^{-2} - \frac{61}{7776} \ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} + \frac{7}{324} \ln(8)^2 F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-2} \\
& - \frac{1}{486} \ln(8)^2 F^{-3} \sin x^6 \cos x \pi^{-4} m83^{-2} - \frac{1}{162} \ln(8)^2 F^{-3} \sin x^8 \cos x \pi^{-4} m83^{-2} - \frac{5}{2304} (\text{mass}(1))^{\ln(1)^2} F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} \\
& + \frac{91}{38880} (\text{mass}(3))^{\ln(3)^2} F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} + \frac{1}{243} (\text{mass}(3))^{\ln(3)^2} F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-1} - \frac{4583}{552960} (\text{mass}(4))^{\ln(4)^2} F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1} \\
& + \frac{19}{3456} (\text{mass}(4))^{\ln(4)^2} F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} + \frac{61}{6912} (\text{mass}(4))^{\ln(4)^2} F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-1} - \frac{4703}{552960} (\text{mass}(5))^{\ln(4)^2} F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1} \\
& + \frac{19}{3456} (\text{mass}(5))^{\ln(4)^2} F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} + \frac{61}{6912} (\text{mass}(5))^{\ln(4)^2} F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-1} - \frac{4583}{552960} (\text{mass}(6))^{\ln(6)^2} F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1} \\
& + \frac{19}{3456} (\text{mass}(6))^{\ln(6)^2} F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} - \frac{61}{6912} (\text{mass}(6))^{\ln(6)^2} F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-1} + \frac{4703}{552960} (\text{mass}(7))^{\ln(6)^2} F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1} \\
& + \frac{19}{3456} (\text{mass}(7))^{\ln(6)^2} F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} - \frac{61}{6912} (\text{mass}(7))^{\ln(6)^2} F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-1} + \frac{329}{38880} (\text{mass}(8))^{\ln(8)^2} F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} \\
& - \frac{1}{243} (\text{mass}(8))^{\ln(8)^2} F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-1}) \\
& + \text{mpp}2^2 \text{mkp}2^3 * (+ \frac{5}{2916} (\text{mass}(3))^{\ln(3)^2} F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} + \frac{1}{576} (\text{mass}(4))^{\ln(4)^2} F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - \frac{1}{576} (\text{mass}(6))^{\ln(6)^2} F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} \\
& - \frac{5}{2916} (\text{mass}(8))^{\ln(8)^2} F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2}) \\
& + \text{mpp}2^3 * (- \frac{1253}{62208} F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} - \frac{293}{93312} F^{-3} \sin x^2 \cos x \pi^{-2} m83^{-1} - \frac{80}{27} F^{-3} \sin x^2 \cos x \pi^{-2} L8r m83^{-1} - \frac{32}{27} F^{-3} \sin x^2 \cos x \pi^{-2} L7r m83^{-1} \\
& - \frac{80}{27} F^{-3} \sin x^2 \cos x \pi^{-2} L6r m83^{-1} + \frac{104}{81} F^{-3} \sin x^2 \cos x \pi^{-2} L5r m83^{-1} + \frac{40}{27} F^{-3} \sin x^2 \cos x \pi^{-2} L4r m83^{-1} + \frac{1}{27} F^{-3} \sin x^2 \cos x \pi^{-2} L3r m83^{-1} \\
& + \frac{2048}{27} F^{-3} \sin x^2 \cos x L5r L8r m83^{-1} + \frac{2048}{9} F^{-3} \sin x^2 \cos x L5r L7r m83^{-1} + \frac{2048}{9} F^{-3} \sin x^2 \cos x L4r L8r m83^{-1} + \frac{2048}{3} F^{-3} \sin x^2 \cos x L4r L7r m83^{-1} \\
& + \frac{2048}{9} F^{-3} \sin x^2 \cos x CC33 m83^{-1} + \frac{1024}{9} F^{-3} \sin x^2 \cos x CC32 m83^{-1} + \frac{1024}{9} F^{-3} \sin x^2 \cos x CC31 m83^{-1} + \frac{1024}{9} F^{-3} \sin x^2 \cos x CC20 m83^{-1})
\end{aligned}$$

$$\begin{aligned}
& 1 + 512/3 * F^{-3} * \sin^2 * \cos^2 * CC19 * m83^{-1} - 512/9 * F^{-3} * \sin^2 * \cos^2 * CC18 * m83^{-1} \\
& - 512/27 * F^{-3} * \sin^2 * \cos^2 * CC17 * m83^{-1} - 512/27 * F^{-3} * \sin^2 * \cos^2 * CC14 * m83^{-1} \\
& - 64/27 * C * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L8r * m83^{-1} - 64/9 * C * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L7r * m83^{-1} \\
& + 1/288 * C * \ln(1) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-1} - 1/810 * C * \ln(3) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-1} \\
& - 1/648 * C * \ln(3) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m83^{-1} + 1/1728 * C * \ln(4) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-1} \\
& - 1/1728 * C * \ln(4) * F^{-3} * \sin^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 1/1728 * C * \ln(6) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-1} \\
& + 1/1728 * C * \ln(6) * F^{-3} * \sin^3 * \sqrt{3} * \pi^{-4} * m83^{-1} + 7/1620 * C * \ln(8) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-1} \\
& + 1/648 * C * \ln(8) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m83^{-1} + 1/648 * \ln(1) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-1} \\
& - 10/9 * \ln(1) * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L8r * m38^{-1} - 206/27 * \ln(1) * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L8r * m83^{-1} \\
& - 32/9 * \ln(1) * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L7r * m38^{-1} - 112/9 * \ln(1) * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L7r * m83^{-1} \\
& + 2/9 * \ln(1) * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L6r * m38^{-1} - 22/9 * \ln(1) * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L6r * m83^{-1} \\
& - 1/27 * \ln(1) * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L5r * m38^{-1} + 38/27 * \ln(1) * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L5r * m83^{-1} \\
& - 1/9 * \ln(1) * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L4r * m38^{-1} + 8/9 * \ln(1) * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L4r * m83^{-1} \\
& + 1/6 * \ln(1) * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L3r * m83^{-1} - 1/324 * \ln(1) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m83^{-1} \\
& + 64/27 * \ln(1) * F^{-3} * \sin^4 * \cos^2 * \pi^{-2} * L8r * m38^{-1} - 32/9 * \ln(1) * F^{-3} * \sin^4 * \cos^2 * \pi^{-2} * L8r * m83^{-1} \\
& + 64/9 * \ln(1) * F^{-3} * \sin^4 * \cos^2 * \pi^{-2} * L7r * m38^{-1} - 32/3 * \ln(1) * F^{-3} * \sin^4 * \cos^2 * \pi^{-2} * L7r * m83^{-1} \\
& + 1/384 * \ln(1)^2 * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-1} - 5/6912 * \ln(1)^2 * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-1} \\
& + 1/192 * \ln(1)^2 * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m38^{-1} + 1/192 * \ln(1)^2 * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m83^{-1} \\
& - 451/103680 * \ln(1) * \ln(3) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-1} - 1/324 * \ln(1) * \ln(3) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m38^{-1} \\
& - 5/5184 * \ln(1) * \ln(3) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m83^{-1} + 1/648 * \ln(1) * \ln(3) * F^{-3} * \sin^6 * \cos^2 * \pi^{-4} * m38^{-1} \\
& + 1/6912 * \ln(1) * \ln(4) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-1} + 1/6912 * \ln(1) * \ln(4) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m38^{-1} \\
& + 29/41472 * \ln(1) * \ln(4) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-1} - 7/13824 * \ln(1) * \ln(4) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m38^{-1} \\
& - 1/768 * \ln(1) * \ln(4) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m38^{-1} - 7/13824 * \ln(1) * \ln(4) * F^{-3} * \sin^6 * \cos^2 * \pi^{-4} * m83^{-1} \\
& + 43/41472 * \ln(1) * \ln(4) * F^{-3} * \sin^3 * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/864 * \ln(1) * \ln(4) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m38^{-1} \\
& - 1/576 * \ln(1) * \ln(4) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m83^{-1} + 1/864 * \ln(1) * \ln(4) * F^{-3} * \sin^5 * \sqrt{3} * \pi^{-4} * m38^{-1} \\
& - 1/6912 * \ln(1) * \ln(6) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m38^{-1} - 29/41472 * \ln(1) * \ln(6) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-1} \\
& - 7/13824 * \ln(1) * \ln(6) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m38^{-1} - 7/13824 * \ln(1) * \ln(6) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m83^{-1} \\
& + 1/768 * \ln(1) * \ln(6) * F^{-3} * \sin^3 * \sqrt{3} * \pi^{-4} * m38^{-1} - 43/41472 * \ln(1) * \ln(6) * F^{-3} * \sin^3 * \sqrt{3} * \pi^{-4} * m83^{-1} \\
& + 1/864 * \ln(1) * \ln(6) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m38^{-1} - 1/576 * \ln(1) * \ln(6) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m83^{-1} \\
& - 1/864 * \ln(1) * \ln(6) * F^{-3} * \sin^5 * \sqrt{3} * \pi^{-4} * m38^{-1} + 1/576 * \ln(1) * \ln(6) * F^{-3} * \sin^5 * \sqrt{3} * \pi^{-4} * m83^{-1} \\
& + 13/20736 * \ln(1) * \ln(8) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m38^{-1} - 299/103680 * \ln(1) * \ln(8) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-1} \\
& + 29/5184 * \ln(1) * \ln(8) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m83^{-1} - 1/648 * \ln(1) * \ln(8) * F^{-3} * \sin^6 * \cos^2 * \pi^{-4} * m38^{-1} \\
& - 7/1296 * \ln(1) * \ln(8) * F^{-3} * \sin^6 * \cos^2 * \pi^{-4} * m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 4^*m83^{-1} - 7/3888*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*\pi^{m83^{-1}} - 392/81*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*\pi^{L8r*m83^{-1}} - 224/27*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*\pi^{L7r*m83^{-1}} - 16/9*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*\pi^{L6r*m83^{-1}} + 86/81*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*\pi^{L5r*m83^{-1}} + 2/3*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*\pi^{L4r*m83^{-1}} + 1/972*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*\pi^{m83^{-1}} + 656/81*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*\pi^{L8r*m83^{-1}} + 64/3*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*\pi^{L7r*m83^{-1}} + 32/27*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*\pi^{L6r*m83^{-1}} - 28/81*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*\pi^{L5r*m83^{-1}} - 4/9*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*\pi^{L4r*m83^{-1}} - 512/81*\ln(3)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*\pi^{L8r*m83^{-1}} - 512/27*\ln(3)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*\pi^{L7r*m83^{-1}} + 563/248832*\ln(3)^2*\pi^{m83^{-1}} - 392/81*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*\pi^{m83^{-1}} - 113/15552*\ln(3)^2*\pi^{m83^{-1}} - 392/81*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*\pi^{m83^{-1}} + 161/15552*\ln(3)^2*\pi^{m83^{-1}} - 392/81*\ln(3)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*\pi^{m83^{-1}} - 1/243*\ln(3)^2*\pi^{m83^{-1}} - 392/81*\ln(3)*F^{-3}*\sin x^8*\cos x*\pi^{-4}*\pi^{m83^{-1}} - 1/13824*\ln(3)*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*\pi^{m38^{-1}} + 479/622080*\ln(3)*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*\pi^{m83^{-1}} - 5/13824*\ln(3)*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*\pi^{m38^{-1}} - 67/69120*\ln(3)*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*\pi^{m83^{-1}} - 13/41472*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*\pi^{m38^{-1}} - 1139/622080*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*\pi^{m83^{-1}} + 1/648*\ln(3)*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*\pi^{m38^{-1}} - 43/10368*\ln(3)*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*\pi^{m83^{-1}} + 5/7776*\ln(3)*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*\pi^{m38^{-1}} + 61/31104*\ln(3)*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*\pi^{m83^{-1}} - 1/1296*\ln(3)*\ln(4)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*\pi^{m38^{-1}} + 1/288*\ln(3)*\ln(4)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*\pi^{m83^{-1}} - 1/3888*\ln(3)*\ln(4)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*\pi^{m38^{-1}} + 1/13824*\ln(3)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*\pi^{m38^{-1}} - 479/622080*\ln(3)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*\pi^{m83^{-1}} - 5/13824*\ln(3)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*\pi^{m38^{-1}} - 67/69120*\ln(3)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*\pi^{m83^{-1}} + 13/41472*\ln(3)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*\pi^{m38^{-1}} + 1139/622080*\ln(3)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*\pi^{m83^{-1}} + 1/648*\ln(3)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*\pi^{m38^{-1}} - 43/10368*\ln(3)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*\pi^{m83^{-1}} - 5/7776*\ln(3)*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*\pi^{m38^{-1}} - 61/31104*\ln(3)*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*\pi^{m83^{-1}} - 1/1296*\ln(3)*\ln(6)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*\pi^{m38^{-1}} + 1/288*\ln(3)*\ln(6)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*\pi^{m83^{-1}} + 1/3888*\ln(3)*\ln(6)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*\pi^{m38^{-1}} + 7/7776*\ln(3)*\ln(6)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*\pi^{m83^{-1}} - 1/41472*\ln(3)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*\pi^{m83^{-1}} - 392/81*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*\pi^{L8r*m83^{-1}} + 35/7776*\ln(3)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*\pi^{m83^{-1}} - 97/7776*\ln(3)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*\pi^{m83^{-1}} + 2/243*\ln(3)*\ln(8)*F^{-3}*\sin x^8*\cos x*\pi^{-4}*\pi^{m83^{-1}} + 1/1296*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*\pi^{m83^{-1}} + 1/81*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*\pi^{L8r*m38^{-1}} + 113/81*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*\pi^{L7r*m83^{-1}} + 1/27*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*\pi^{L6r*m38^{-1}} - 11/27*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*\pi^{L6r*m83^{-1}} - 1/162*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*\pi^{L5r*m38^{-1}} - 17/81*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*\pi^{L5r*m83^{-1}} - 1/54*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*\pi^{L4r*m38^{-1}} + 4/27*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*\pi^{L4r*m83^{-1}} + 1/36*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*\pi^{L3r*m83^{-1}} - 11/10368*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*\pi^{m83^{-1}} + 5/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*\pi^{L8r*m38^{-1}} - 11/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*\pi^{L8r*m83^{-1}} + 16/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*\pi^{L7r*m38^{-1}} - 16/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*\pi^{L7r*m83^{-1}} - 1/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*\pi^{L6r*m38^{-1}} - 5/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*\pi^{L6r*m83^{-1}}
\end{aligned}$$

$$\begin{aligned}
& 1 + 1/54*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m38^{-1} + 7/27*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1} + 1/18*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m38^{-1} + 2/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1} + 1/36*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r*m83^{-1} - 5/3888*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 31/81*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m38^{-1} - 161/81*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} + 32/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m38^{-1} - 136/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} - 1/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m38^{-1} + 11/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} + 1/162*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m38^{-1} + 17/81*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} + 1/54*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m38^{-1} - 4/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} - 1/36*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} + 1/648*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 32/27*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m38^{-1} + 16/9*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1} - 32/9*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m38^{-1} + 16/3*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1} + 1/1944*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} - 32/81*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m38^{-1} + 16/27*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} - 32/27*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m38^{-1} + 16/9*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} - 1/20736*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1} + 1/41472*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/6912*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m38^{-1} + 7/41472*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 5/20736*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1} - 13/41472*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/1728*\ln(4)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m38^{-1} - 1/1152*\ln(4)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 1/5184*\ln(4)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m38^{-1} + 1/3456*\ln(4)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/3456*\ln(4)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 5/20736*\ln(4)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 5/124416*\ln(4)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1} + 691/622080*\ln(4)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 13/41472*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 71/207360*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 7/41472*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1} + 449/622080*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 19/10368*\ln(4)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 1/7776*\ln(4)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m38^{-1} - 85/31104*\ln(4)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/1296*\ln(4)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} + 1/3888*\ln(4)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m38^{-1} + 7/7776*\ln(4)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/81*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m38^{-1} - 113/81*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} - 88/27*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} - 1/27*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m38^{-1} + 11/27*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} + 1/162*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m38^{-1} + 17/81*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} + 1/54*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m38^{-1} - 4/27*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} - 1/36*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} - 11/10368*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 5/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m38^{-1} - 11/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1} + 16/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m38^{-1} - 16/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1} - 1/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m38^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1 - 5/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1} + 1/54*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m38^{-1} + 7/27*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1} + 1/18*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m38^{-1} + 2/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1} + 1/36*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r*m83^{-1} + 5/3888*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 31/81*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m38^{-1} + 161/81*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} - 32/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m38^{-1} + 136/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} + 1/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m38^{-1} - 11/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} - 1/162*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m38^{-1} - 17/81*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} - 1/54*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m38^{-1} + 4/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} + 1/36*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} + 1/648*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 32/27*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m38^{-1} + 16/9*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1} - 32/9*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m38^{-1} + 16/3*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1} - 1/1944*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} + 32/81*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m38^{-1} - 16/27*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} + 32/27*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m38^{-1} - 16/9*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} + 1/20736*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1} - 1/41472*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/6912*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m38^{-1} + 7/41472*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 5/20736*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1} + 13/41472*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/1728*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m38^{-1} - 1/1152*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 1/5184*\ln(6)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m38^{-1} - 1/3456*\ln(6)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} - 5/124416*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1} - 691/622080*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 13/41472*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m38^{-1} + 71/207360*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 7/41472*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1} + 19/10368*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m38^{-1} + 1/7776*\ln(6)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m38^{-1} + 1/1296*\ln(6)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m38^{-1} - 1/288*\ln(6)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} - 1/3888*\ln(6)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m38^{-1} - 7/7776*\ln(6)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1} - 8/3*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1} - 128/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1} - 16/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1} + 2/9*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1} + 2/9*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1} - 1/972*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 656/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1} - 64/3*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1} - 32/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-1} + 28/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-1} + 4/9*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-1} + 512/81*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-1} + 512/27*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-1} + 275/248832*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 43/15552*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 11/5184*\ln(8)^2*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} - 1/243*\ln(8)^2*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^8 * \cos x * \pi^4 * m83^{-1} + 7/8192 / (\text{mass}(1)) * \ln(1)^2 * F^{-3} * \cos x * \pi^4 + \\
& 7/15360 / (\text{mass}(1)) * \ln(1)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 + 7/8192 / (\text{mass}(2)) * \ln(1)^2 * F^{-3} * \cos x * \pi^4 + \\
& 41/46080 / (\text{mass}(2)) * \ln(1)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 + \\
& 9/8192 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \cos x * \pi^4 + 1/1296 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 - \\
& 1/3240 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^4 * \cos x * \pi^4 + \\
& 1/30720 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 + 7/92160 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 - \\
& 1/30720 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 - \\
& 11/276480 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 + 41/276480 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 + \\
& 11/276480 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 - \\
& 1/30720 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 + 7/92160 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 + \\
& 1/30720 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 + \\
& 11/276480 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 + 41/276480 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 - \\
& 11/276480 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 - \\
& 1/73728 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \cos x * \pi^4 + 1/2160 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 + \\
& 1/3240 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x^4 * \cos x * \pi^4 \\
&) \\
& + \text{mpp}^2 * \text{m}^3 * \text{mkp}^2 * (+ 114688/9 * F^{-3} * \sin x^2 * \cos x * L8r^2 * m83^{-2} + \\
& 2080768/27 * F^{-3} * \sin x^2 * \cos x * L7r * L8r * m83^{-2} + 1048576/9 * F^{-3} * \sin x^2 * \cos x * L7r^2 * m83^{-2} - \\
& 16384/27 * F^{-3} * \sin x^2 * \cos x * L6r * L8r * m83^{-2} - 16384/9 * F^{-3} * \sin x^2 * \cos x * L6r * L7r * m83^{-2} + \\
& 8192/81 * F^{-3} * \sin x^2 * \cos x * L5r * L8r * m83^{-2} + 8192/27 * F^{-3} * \sin x^2 * \cos x * L5r * L7r * m83^{-2} + \\
& 8192/27 * F^{-3} * \sin x^2 * \cos x * L4r * L8r * m83^{-2} + 8192/9 * F^{-3} * \sin x^2 * \cos x * L4r * L7r * m83^{-2} - \\
& 524288/27 * F^{-3} * \sin x^4 * \cos x * L8r^2 * m83^{-2} - 1048576/9 * F^{-3} * \sin x^4 * \cos x * L7r * L8r * m83^{-2} - \\
& 524288/3 * F^{-3} * \sin x^4 * \cos x * L7r^2 * m83^{-2} + 1/486 * C * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-2} + \\
& 1/1296 * C * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-2} - 1/1296 * C * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-2} - \\
& 1/486 * C * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-2} - 688/27 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^4 * L8r * m83^{-2} - \\
& 704/9 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^4 * L7r * m83^{-2} + 16/9 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^4 * L6r * m83^{-2} - \\
& 8/27 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^4 * L5r * m83^{-2} - 8/9 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^4 * L4r * m83^{-2} + \\
& 256/9 * \ln(1) * F^{-3} * \sin x^4 * \cos x * \pi^4 * L8r * m83^{-2} + 256/3 * \ln(1) * F^{-3} * \sin x^4 * \cos x * \pi^4 * L7r * m83^{-2} + \\
& 1/216 * \ln(1)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-2} + 77/5184 * \ln(1) * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-2} - \\
& 11/1296 * \ln(1) * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-2} - 1/108 * \ln(1) * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^4 * m83^{-2} + \\
& 71/20736 * \ln(1) * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-2} + 19/864 * \ln(1) * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-2} - \\
& 1/288 * \ln(1) * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * m83^{-2} - 1/36 * \ln(1) * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-2} - \\
& 71/20736 * \ln(1) * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-2} + 19/864 * \ln(1) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-2} + \\
& 1/288 * \ln(1) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * m83^{-2} - 1/36 * \ln(1) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-2} + \\
& 91/5184 * \ln(1) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-2} - 37/1296 * \ln(1) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-2} + \\
& 1/108 * \ln(1) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^4 * m83^{-2} - 472/27 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^4 * L8r * m83^{-2} - \\
& 4256/81 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^4 * L7r * m83^{-2} + 40/81 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^4 * L6r * m83^{-2} - \\
& 4/27 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^4 * L5r * m83^{-2} - 52/81 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^4 * L4r * m83^{-2} + \\
& 7856/243 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^4 * L8r * m83^{-2} + 7936/81 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^4 * L7r * m83^{-2} -
\end{aligned}$$

$$\begin{aligned}
& 80/81*\ln(3)*F^{-3}*\sin^4*\cos^*\pi^{-2}*L6r*m83^{-2} + 40/243*\ln(3)*F^{-3}*\sin^4*\cos^*\pi^{-2}*L5r*m83^{-2} + 40/81*\ln(3)*F^{-3}*\sin^4*\cos^*\pi^{-2} \\
& *L4r*m83^{-2} - 512/81*\ln(3)*F^{-3}*\sin^6*\cos^*\pi^{-2}*L8r*m83^{-2} - 512/27*\ln(3)*F^{-3}*\sin^6*\cos^*\pi^{-2}*L7r*m83^{-2} + 259/46656*\ln(3)^2*F^{-3}*\sin^2*\cos^*\pi^{-4} \\
& *m83^{-2} - 77/7776*\ln(3)^2*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-2} - 2/729*\ln(3)^2*F^{-3}*\sin^6*\cos^*\pi^{-4}*m83^{-2} + 1/243*\ln(3)^2*F^{-3}*\sin^8*\cos^*\pi^{-4} \\
& *m83^{-2} + 1003/373248*\ln(3)*\ln(4)*F^{-3}*\sin^*\sqrt{3}*\pi^{-4}*m83^{-2} + 319/31104*\ln(3)*\ln(4)*F^{-3}*\sin^2*\cos^*\pi^{-4}*m83^{-2} - 175/31104*\ln(3)*\ln(4)*F^{-3} \\
& *\sin^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 55/1944*\ln(3)*\ln(4)*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-2} + 1/729*\ln(3)*\ln(4)*F^{-3}*\sin^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 7/648*\ln(3)*\ln(4)*F^{-3} \\
& *\sin^6*\cos^*\pi^{-4}*m83^{-2} + 1/648*\ln(3)*\ln(4)*F^{-3}*\sin^7*\sqrt{3}*\pi^{-4}*m83^{-2} - 1003/373248*\ln(3)*\ln(6)*F^{-3}*\sin^*\sqrt{3}*\pi^{-4}*m83^{-2} + 319/31104*\ln(3)*\ln(6)*F^{-3} \\
& *\sin^2*\cos^*\pi^{-4}*m83^{-2} + 175/31104*\ln(3)*\ln(6)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 55/1944*\ln(3)*\ln(6)*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-2} - 1/729*\ln(3)*\ln(6)*F^{-3} \\
& *\sin^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 7/648*\ln(3)*\ln(6)*F^{-3}*\sin^6*\cos^*\pi^{-4}*m83^{-2} - 89/7776*\ln(3)*\ln(8)*F^{-3}*\sin^2*\cos^*\pi^{-4}*m83^{-2} - 85/3888*\ln(3)*\ln(8)*F^{-3} \\
& *\sin^4*\cos^*\pi^{-4}*m83^{-2} + 10/729*\ln(3)*\ln(8)*F^{-3}*\sin^6*\cos^*\pi^{-4}*m83^{-2} - 2/243*\ln(3)*\ln(8)*F^{-3}*\sin^8*\cos^*\pi^{-4}*m83^{-2} - 899/243*\ln(4)*F^{-3} \\
& *\sin^*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 896/81*\ln(4)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 5/27*\ln(4)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} - 11/162*\ln(4)*F^{-3} \\
& *\sin^*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} - 1/6*\ln(4)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} - 344/27*\ln(4)*F^{-3}*\sin^2*\cos^*\pi^{-2}*L8r*m83^{-2} - 1024/27*\ln(4)*F^{-3} \\
& *\sin^2*\cos^*\pi^{-2}*L7r*m83^{-2} - 8/27*\ln(4)*F^{-3}*\sin^2*\cos^*\pi^{-2}*L6r*m83^{-2} + 4/81*\ln(4)*F^{-3}*\sin^2*\cos^*\pi^{-2}*L5r*m83^{-2} + 4/27*\ln(4)*F^{-3} \\
& *\sin^2*\cos^*\pi^{-2}*L4r*m83^{-2} + 2024/243*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 8/27*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} + 4/81*\ln(4)*F^{-3} \\
& *\sin^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} + 4/27*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} + 640/9*\ln(4)*F^{-3}*\sin^4*\cos^*\pi^{-2}*L8r*m83^{-2} + 640/9*\ln(4)*F^{-3} \\
& *\sin^4*\cos^*\pi^{-2}*L7r*m83^{-2} - 128/27*\ln(4)*F^{-3}*\sin^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 128/9*\ln(4)*F^{-3}*\sin^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 1/486*\ln(4)^2*F^{-3} \\
& *\sin^2*\cos^*\pi^{-4}*m83^{-2} - 13/1944*\ln(4)^2*F^{-3}*\sin^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/216*\ln(4)^2*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-2} + 1/216*\ln(4)^2*F^{-3} \\
& *\sin^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/1296*\ln(4)*\ln(6)*F^{-3}*\sin^2*\cos^*\pi^{-4}*m83^{-2} - 1/108*\ln(4)*\ln(6)*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-2} + 85/41472*\ln(4)*\ln(8)*F^{-3} \\
& *\sin^*\sqrt{3}*\pi^{-4}*m83^{-2} - 475/93312*\ln(4)*\ln(8)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/1944*\ln(4)*\ln(8)*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-2} + 7/1458*\ln(4)*\ln(8)*F^{-3} \\
& *\sin^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 7/648*\ln(4)*\ln(8)*F^{-3}*\sin^6*\cos^*\pi^{-4}*m83^{-2} - 1/648*\ln(4)*\ln(8)*F^{-3}*\sin^7*\sqrt{3}*\pi^{-4}*m83^{-2} + 899/243*\ln(6)*F^{-3} \\
& *\sin^*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 896/81*\ln(6)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 5/27*\ln(6)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} + 11/162*\ln(6)*F^{-3} \\
& *\sin^*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} + 1/6*\ln(6)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} - 344/27*\ln(6)*F^{-3}*\sin^2*\cos^*\pi^{-2}*L8r*m83^{-2} - 1024/27*\ln(6)*F^{-3} \\
& *\sin^2*\cos^*\pi^{-2}*L7r*m83^{-2} -
\end{aligned}$$

$$\begin{aligned}
& 8/27*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} + 4/81*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2} \\
& - 2*L5r*m83^{-2} + 4/27*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} - 2024/243*\ln(6)*F^{-3} \\
& * \sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 2048/81*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2} \\
& *L7r*m83^{-2} + 8/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} - 4/81*\ln(6)*F^{-3} \\
& * \sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} - 4/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2} \\
& *L4r*m83^{-2} + 640/27*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} + \\
& 640/9*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} + 128/27*\ln(6)*F^{-3} \\
& * \sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 128/9*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2} \\
& *L7r*m83^{-2} - 1/486*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/1296*\ln(6)^2*F^{-3} \\
& * \sin x^2*\cos x*\pi^{-4}*m83^{-2} + 13/1944*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& *m83^{-2} - 1/216*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 1/216*\ln(6)^2*F^{-3} \\
& * \sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 85/41472*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& *m83^{-2} + 67/10368*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + \\
& 475/93312*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/1944*\ln(6)*\ln(8)*F^{-3} \\
& * \sin x^4*\cos x*\pi^{-4}*m83^{-2} - 7/1458*\ln(6)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} \\
& *m83^{-2} - 7/648*\ln(6)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 1/648*\ln(6)*\ln(8)*F^{-3} \\
& * \sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} - 3752/243*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2} \\
& *L8r*m83^{-2} - 3808/81*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} + \\
& 8/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} + 4/243*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2} \\
& *L5r*m83^{-2} + 20/81*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} + \\
& 4432/243*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} + 4352/81*\ln(8)*F^{-3} \\
& * \sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} + 80/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2} \\
& *L6r*m83^{-2} - 40/243*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-2} - 40/81*\ln(8)*F^{-3} \\
& * \sin x^4*\cos x*\pi^{-2}*L4r*m83^{-2} + 512/81*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2} \\
& *L8r*m83^{-2} + 512/27*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-2} + \\
& 199/46656*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 1/864*\ln(8)^2*F^{-3} \\
& * \sin x^4*\cos x*\pi^{-4}*m83^{-2} - 8/729*\ln(8)^2*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} \\
& + 1/243*\ln(8)^2*F^{-3}*\sin x^8*\cos x*\pi^{-4}*m83^{-2} + 7/1152/(mass(1))*\ln(1)^2*F^{-3} \\
& * \sin x^2*\cos x*\pi^{-4}*m83^{-1} + 7/1152/(mass(2))*\ln(1)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& *m83^{-1} - 271/58320/(mass(3))*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + \\
& 5/1458/(mass(3))*\ln(3)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 5/2592/(mass(4))*\ln(4)^2*F^{-3} \\
& * \sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 31/5184/(mass(4))*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& *m83^{-1} - 5/2592/(mass(4))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + \\
& 5/2592/(mass(5))*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 31/5184/(mass(5))*\ln(4)^2*F^{-3} \\
& * \sin x^2*\cos x*\pi^{-4}*m83^{-1} - 5/2592/(mass(5))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& *m83^{-1} - 5/2592/(mass(6))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - \\
& 31/5184/(mass(6))*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 5/2592/(mass(6))*\ln(6)^2*F^{-3} \\
& * \sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 5/2592/(mass(7))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& *m83^{-1} - 31/5184/(mass(7))*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + \\
& 5/2592/(mass(7))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 149/58320/(mass(8))*\ln(8)^2*F^{-3} \\
& * \sin x^2*\cos x*\pi^{-4}*m83^{-1} - 5/1458/(mass(8))*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} \\
& *m83^{-1}) \\
& + mpp2^3*mkp2^2 * (- 1/5832/(mass(3))*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& *m83^{-2} - 1/2592/(mass(4))*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + \\
& 1/2592/(mass(6))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/5832/(mass(8))*\ln(8)^2*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^2 * \cos x * \pi^{-4} * m83^{-2}) \\
& + \text{mpp}2^4 * (- 90112/27 * F^{-3} * \sin x^2 * \cos x * L8r^2 * m83^{-2} - 532480/27 * F^{-3} * \sin x^2 * \cos x * L7r * L8r * m83^{-2} - 262144/9 * F^{-3} * \sin x^2 * \cos x * L7r^2 * m83^{-2} - 8192/27 * F^{-3} * \sin x^2 * \cos x * L6r * L8r * m83^{-2} - 8192/9 * F^{-3} * \sin x^2 * \cos x * L6r * L7r * m83^{-2} + 4096/81 * F^{-3} * \sin x^2 * \cos x * L5r * L8r * m83^{-2} + 4096/27 * F^{-3} * \sin x^2 * \cos x * L5r * L7r * m83^{-2} + 4096/27 * F^{-3} * \sin x^2 * \cos x * L4r * L8r * m83^{-2} + 4096/9 * F^{-3} * \sin x^2 * \cos x * L4r * L7r * m83^{-2} + 131072/27 * F^{-3} * \sin x^4 * \cos x * L8r^2 * m83^{-2} + 262144/9 * F^{-3} * \sin x^4 * \cos x * L7r * L8r * m83^{-2} + 131072/3 * F^{-3} * \sin x^4 * \cos x * L7r^2 * m83^{-2} + 1/972 * C * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 1/972 * C * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 940/81 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-2} + 928/27 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-2} + 4/9 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-2} - 2/27 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-2} - 2/9 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-2} - 128/9 * \ln(1) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-2} - 128/3 * \ln(1) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-2} - 17/1728 * \ln(1)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 1/96 * \ln(1)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} - 313/31104 * \ln(1) * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 83/3888 * \ln(1) * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} - 1/108 * \ln(1) * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} - 19/10368 * \ln(1) * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} - 11/10368 * \ln(1) * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 55/10368 * \ln(1) * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} + 1/288 * \ln(1) * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} - 1/288 * \ln(1) * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} + 19/10368 * \ln(1) * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} - 11/10368 * \ln(1) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 55/10368 * \ln(1) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} + 1/288 * \ln(1) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} + 1/288 * \ln(1) * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} - 163/31104 * \ln(1) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 11/3888 * \ln(1) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} + 1/108 * \ln(1) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} + 136/27 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-2} + 1232/81 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-2} + 8/81 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-2} - 4/81 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-2} - 20/81 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-2} - 3344/243 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-2} - 3328/81 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-2} - 16/81 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L6r * m83^{-2} + 8/243 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L5r * m83^{-2} + 8/81 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L4r * m83^{-2} + 512/81 * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L8r * m83^{-2} + 512/27 * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L7r * m83^{-2} - 97/46656 * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 65/7776 * \ln(3)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} - 11/1458 * \ln(3)^2 * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} + 1/486 * \ln(3)^2 * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-2} - 101/186624 * \ln(3) * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} + 17/62208 * \ln(3) * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 215/62208 * \ln(3) * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} + 5/1944 * \ln(3) * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} - 13/2916 * \ln(3) * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/648 * \ln(3) * \ln(4) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} + 1/648 * \ln(3) * \ln(4) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-2} + 101/186624 * \ln(3) * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} + 17/62208 * \ln(3) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 215/62208 * \ln(3) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} + 5/1944 * \ln(3) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 4^*m83^{-2} + 13/2916*\ln(3)*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} - 1/648*\ln(3)*\ln(6)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} \\
& - 1/648*\ln(3)*\ln(6)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2}} - 19/7776*\ln(3)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 5/3888*\ln(3)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} \\
& + 5/729*\ln(3)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} - 1/243*\ln(3)*\ln(8)*F^{-3*\sin x^8*\cos x*\pi^{-4}*m83^{-2}} + 230/243*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} \\
& + 224/81*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} + 2/27*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2}} - 1/81*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2}} \\
& - 1/27*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2}} + 34/81*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2}} + 32/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2}} \\
& + 2/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2}} - 1/81*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2}} - 1/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2}} \\
& - 806/243*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} - 800/81*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} - 2/27*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2}} \\
& + 1/81*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2}} + 1/27*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2}} - 64/27*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2}} \\
& - 64/9*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2}} + 64/27*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} + 64/9*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} \\
& + 1/15552*\ln(4)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 11/10368*\ln(4)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 1/1944*\ln(4)^2*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 1/1728*\ln(4)^2*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} - 1/576*\ln(4)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 1/432*\ln(4)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} \\
& - 5/6912*\ln(4)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} - 53/62208*\ln(4)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 167/186624*\ln(4)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& + 1/1944*\ln(4)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} + 1/729*\ln(4)*\ln(8)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} + 1/648*\ln(4)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} \\
& - 1/648*\ln(4)*\ln(8)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2}} - 230/243*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} - 224/81*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} \\
& - 2/27*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2}} - 1/81*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2}} + 1/81*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2}} \\
& + 34/81*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2}} + 32/27*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2}} + 2/27*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2}} \\
& - 1/81*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2}} - 1/27*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2}} + 806/243*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} \\
& + 800/81*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} - 2/27*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2}} - 1/81*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2}} \\
& - 1/27*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2}} - 64/27*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2}} - 64/9*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2}} \\
& - 64/9*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} - 1/15552*\ln(6)^2*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} + 11/10368*\ln(6)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} \\
& - 1/1944*\ln(6)^2*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} - 1/1728*\ln(6)^2*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} + 1/1728*\ln(6)^2*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} \\
& + 1/1728*\ln(6)^2*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} - 53/62208*\ln(6)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} - 167/186624*\ln(6)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& + 1/1944*\ln(6)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} - 1/729*\ln(6)*\ln(8)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} + 1/729*\ln(6)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} + 1/648 * \ln(6) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} + 1/648 * \ln(6) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-2} + 920/243 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-2} + 880/81 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-2} + 8/27 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-2} - 4/243 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-2} + 4/81 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-2} + 272/243 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-2} + 256/81 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-2} + 16/81 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L6r * m83^{-2} - 8/243 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L5r * m83^{-2} - 8/81 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L4r * m83^{-2} - 512/81 * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L8r * m83^{-2} - 512/27 * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L7r * m83^{-2} - 61/46656 * \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 11/7776 * \ln(8)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} + 1/1458 * \ln(8)^2 * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} + 1/486 * \ln(8)^2 * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-2} - 47/9216 / (\text{mass}(1)) * \ln(1)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 47/9216 / (\text{mass}(2)) * \ln(1)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 211/116640 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 1/1458 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 1/6144 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 179/165888 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 1/6144 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/6144 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 1/6144 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} + 179/165888 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 1/6144 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 1/6144 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 179/165888 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 1/6144 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 209/116640 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 1/1458 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1}) \\
& + \text{mpp}2^4 * \text{mkp}2 * (- 1/1458 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 1/1458 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2}) \\
& + \text{mpp}2^5 * (- 1/5832 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 1/5832 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2}) \\
& + \text{mud} * (+ 1/3 * \text{Hb}(1,1,3, \text{qext. qext}) * F^{-3} * \sin x * \sqrt{3} + 2/3 * \text{Hb}(1,1,3, \text{qext. qext}) * F^{-3} * \sin x^2 * \cos x + 1/9 * \text{Hb}(1,1,8, \text{qext. qext}) * F^{-3} * \sin x * \sqrt{3} - 2/3 * \text{Hb}(1,1,8, \text{qext. qext}) * F^{-3} * \sin x^2 * \cos x - 1/3 * \text{Hb}(1,2,3, \text{plext. plext}) * F^{-3} * \sin x * \sqrt{3} - 2 * \text{Hb}(1,2,3, \text{plext. plext}) * F^{-3} * \sin x^2 * \cos x + 4/3 * \text{Hb}(1,2,3, \text{plext. plext}) * F^{-3} * \sin x^4 * \cos x - 1/9 * \text{Hb}(1,2,8, \text{plext. plext}) * F^{-3} * \sin x * \sqrt{3} + 10/9 * \text{Hb}(1,2,8, \text{plext. plext}) * F^{-3} * \sin x^2 * \cos x - 4/3 * \text{Hb}(1,2,8, \text{plext. plext}) * F^{-3} * \sin x^4 * \cos x - 1/12 * \text{Hb}(1,4,6, \text{qext. qext}) * F^{-3} * \sin x * \sqrt{3} - 1/6 * \text{Hb}(1,5,6, \text{plext. plext}) * F^{-3} * \cos x + 4/9 * \text{Hb}(1,5,6, \text{plext. plext}) * F^{-3} * \sin x * \sqrt{3} - 4/9 * \text{Hb}(1,5,6, \text{plext. plext}) * F^{-3} * \sin x^3 * \sqrt{3} - 1/12 * \text{Hb}(1,5,7, \text{qext. qext}) * F^{-3} * \sin x * \sqrt{3} + 1/3 * \text{Hb}(2,2,3, \text{qext. qext}) * F^{-3} * \sin x * \sqrt{3} + 2/3 * \text{Hb}(2,2,3, \text{qext. qext}) * F^{-3} * \sin x^2 * \cos x + 1/9 * \text{Hb}(2,2,8, \text{qext. qext}) * F^{-3} * \sin x * \sqrt{3} - 2/3 * \text{Hb}(2,2,8, \text{qext. qext}) * F^{-3} * \sin x^2 * \cos x - 1/6 * \text{Hb}(2,4,7, \text{plext. plext}) * F^{-3} * \cos x + 4/9 * \text{Hb}(2,4,7, \text{plext. plext}) * F^{-3} * \sin x * \sqrt{3} - 4/9 * \text{Hb}(2,4,7, \text{plext. plext}) * F^{-3} * \sin x^3 * \sqrt{3} - 1/12 * \text{Hb}(2,4,7, \text{qext. qext}) * F^{-3} * \sin x * \sqrt{3} - 1/12 * \text{Hb}(2,5,6, \text{qext. qext}) * F^{-3} * \sin x * \sqrt{3} - 1/12 * \text{Hb}(3,1,1, \text{qext. qext}) * F^{-3} * \sin x * \sqrt{3} - 1/6 * \text{Hb}(3,1,1, \text{qext. qext}) * F^{-3} * \sin x^2 * \cos x)
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^2*\cos x + 1/24*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/4*\text{Hb}(3,1,2,\text{plext.plext})*F^{-} \\
& 3^*\sin x^2*\cos x - 1/6*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 1/12*\text{Hb}(3,2,2,\text{qext.qext})*F^{-} \\
& 3^*\sin x*\sqrt{3} - 1/6*\text{Hb}(3,2,2,\text{qext.qext})*F^{-3}*\sin x^2*\cos x - 47/288*\text{Hb}(3,4,4,\text{qext.qext})*F^{-} \\
& 3^*\cos x - 11/864*\text{Hb}(3,4,4,\text{qext.qext})*F^{-3}*\sin x*\sqrt{3} + 1/12*\text{Hb}(3,4,4,\text{qext.qext})*F^{-} \\
& 3^*\sin x^2*\cos x + 1/27*\text{Hb}(3,4,4,\text{qext.qext})*F^{-3}*\sin x^3*\sqrt{3} + 23/72*\text{Hb}(3,4,5,\text{plext.plext})*F^{-} \\
& 3^*\cos x + 23/864*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/72*\text{Hb}(3,4,5,\text{plext.plext})*F^{-} \\
& 3^*\sin x^2*\cos x - 5/36*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 17/108*\text{Hb}(3,4,5,\text{plext.plext})*F^{-} \\
& 3^*\sin x^5*\sqrt{3} - 47/288*\text{Hb}(3,5,5,\text{qext.qext})*F^{-3}*\cos x - 11/864*\text{Hb}(3,5,5,\text{qext.qext})*F^{-} \\
& 3^*\sin x*\sqrt{3} + 1/12*\text{Hb}(3,5,5,\text{qext.qext})*F^{-3}*\sin x^2*\cos x + 1/27*\text{Hb}(3,5,5,\text{qext.qext})*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 47/288*\text{Hb}(3,6,6,\text{qext.qext})*F^{-3}*\cos x - 151/864*\text{Hb}(3,6,6,\text{qext.qext})*F^{-} \\
& 3^*\sin x*\sqrt{3} + 1/12*\text{Hb}(3,6,6,\text{qext.qext})*F^{-3}*\sin x^2*\cos x - 1/27*\text{Hb}(3,6,6,\text{qext.qext})*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 23/72*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\cos x + 295/864*\text{Hb}(3,6,7,\text{plext.plext})*F^{-} \\
& 3^*\sin x*\sqrt{3} - 1/72*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 5/36*\text{Hb}(3,6,7,\text{plext.plext})*F^{-} \\
& 3^*\sin x^4*\cos x - 17/108*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} + 47/288*\text{Hb}(3,7,7,\text{qext.qext})*F^{-} \\
& 3^*\cos x - 151/864*\text{Hb}(3,7,7,\text{qext.qext})*F^{-3}*\sin x*\sqrt{3} + 1/12*\text{Hb}(3,7,7,\text{qext.qext})*F^{-} \\
& 3^*\sin x^2*\cos x - 1/27*\text{Hb}(3,7,7,\text{qext.qext})*F^{-3}*\sin x^3*\sqrt{3} - 1/32*\text{Hb}(4,2,7,\text{plext.plext})*F^{-} \\
& 3^*\cos x + 5/96*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/12*\text{Hb}(4,2,7,\text{plext.plext})*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 5/72*\text{Hb}(4,4,8,\text{qext.qext})*F^{-3}*\cos x - 31/216*\text{Hb}(4,4,8,\text{qext.qext})*F^{-} \\
& 3^*\sin x*\sqrt{3} + 1/9*\text{Hb}(4,4,8,\text{qext.qext})*F^{-3}*\sin x^2*\cos x + 2/27*\text{Hb}(4,4,8,\text{qext.qext})*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 1/18*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\cos x + 5/108*\text{Hb}(4,5,8,\text{plext.plext})*F^{-} \\
& 3^*\sin x*\sqrt{3} + 1/3*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 4/9*\text{Hb}(4,5,8,\text{plext.plext})*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 2/9*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 10/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-} \\
& 3^*\sin x^5*\sqrt{3} - 1/32*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\cos x + 5/96*\text{Hb}(5,1,6,\text{plext.plext})*F^{-} \\
& 3^*\sin x*\sqrt{3} - 1/12*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + 5/72*\text{Hb}(5,5,8,\text{qext.qext})*F^{-} \\
& 3^*\cos x - 31/216*\text{Hb}(5,5,8,\text{qext.qext})*F^{-3}*\sin x*\sqrt{3} + 1/9*\text{Hb}(5,5,8,\text{qext.qext})*F^{-} \\
& 3^*\sin x^2*\cos x + 2/27*\text{Hb}(5,5,8,\text{qext.qext})*F^{-3}*\sin x^3*\sqrt{3} + 1/8*\text{Hb}(6,1,4,\text{qext.qext})*F^{-} \\
& 3^*\cos x + 1/16*\text{Hb}(6,1,4,\text{qext.qext})*F^{-3}*\sin x*\sqrt{3} - 3/32*\text{Hb}(6,1,5,\text{plext.plext})*F^{-} \\
& 3^*\cos x - 11/96*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/12*\text{Hb}(6,1,5,\text{plext.plext})*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 1/8*\text{Hb}(6,2,5,\text{qext.qext})*F^{-3}*\cos x + 1/16*\text{Hb}(6,2,5,\text{qext.qext})*F^{-} \\
& 3^*\sin x*\sqrt{3} - 5/72*\text{Hb}(6,6,8,\text{qext.qext})*F^{-3}*\cos x + 13/216*\text{Hb}(6,6,8,\text{qext.qext})*F^{-} \\
& 3^*\sin x*\sqrt{3} + 1/9*\text{Hb}(6,6,8,\text{qext.qext})*F^{-3}*\sin x^2*\cos x - 2/27*\text{Hb}(6,6,8,\text{qext.qext})*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 1/18*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\cos x - 11/108*\text{Hb}(6,7,8,\text{plext.plext})*F^{-} \\
& 3^*\sin x*\sqrt{3} + 1/3*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 4/9*\text{Hb}(6,7,8,\text{plext.plext})*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 2/9*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 10/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-} \\
& 3^*\sin x^5*\sqrt{3} + 1/8*\text{Hb}(7,1,5,\text{qext.qext})*F^{-3}*\cos x + 1/16*\text{Hb}(7,1,5,\text{qext.qext})*F^{-} \\
& 3^*\sin x*\sqrt{3} - 3/32*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\cos x - 11/96*\text{Hb}(7,2,4,\text{plext.plext})*F^{-} \\
& 3^*\sin x*\sqrt{3} + 1/12*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + 1/8*\text{Hb}(7,2,4,\text{qext.qext})*F^{-} \\
& 3^*\cos x + 1/16*\text{Hb}(7,2,4,\text{qext.qext})*F^{-3}*\sin x*\sqrt{3} - 5/72*\text{Hb}(7,7,8,\text{qext.qext})*F^{-} \\
& 3^*\cos x + 13/216*\text{Hb}(7,7,8,\text{qext.qext})*F^{-3}*\sin x*\sqrt{3} + 1/9*\text{Hb}(7,7,8,\text{qext.qext})*F^{-} \\
& 3^*\sin x^2*\cos x - 2/27*\text{Hb}(7,7,8,\text{qext.qext})*F^{-3}*\sin x^3*\sqrt{3} + 1/12*\text{Hb}(8,1,1,\text{qext.qext})*F^{-} \\
& 3^*\sin x*\sqrt{3} + 1/6*\text{Hb}(8,1,1,\text{qext.qext})*F^{-3}*\sin x^2*\cos x - 1/24*\text{Hb}(8,1,2,\text{plext.plext})*F^{-} \\
& 3^*\sin x*\sqrt{3} - 1/4*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/6*\text{Hb}(8,1,2,\text{plext.plext})*F^{-} \\
& 3^*\sin x^4*\cos x + 1/12*\text{Hb}(8,2,2,\text{qext.qext})*F^{-3}*\sin x*\sqrt{3} + 1/6*\text{Hb}(8,2,2,\text{qext.qext})*F^{-} \\
& 3^*\sin x^2*\cos x + 3/32*\text{Hb}(8,4,4,\text{qext.qext})*F^{-3}*\cos x - 1/96*\text{Hb}(8,4,4,\text{qext.qext})*F^{-} \\
& 3^*\sin x*\sqrt{3} - 1/12*\text{Hb}(8,4,4,\text{qext.qext})*F^{-3}*\sin x^2*\cos x - 1/16*\text{Hb}(8,4,5,\text{plext.plext})*F^{-} \\
& 3^*\cos x - 3/32*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/8*\text{Hb}(8,4,5,\text{plext.plext})*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\sqrt{3} - 1/4^*H21b(8,4,4,qext.qext)^*F^{-3^*\sin x^2*\cos x + 1/16^*H21b(8,4,5,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 1/4^*H21b(8,4,5,p1ext.p1ext)^*F^{-3^*\sin x^2*\cos x + 1/2^*H21b(8,4,5,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 1/2^*H21b(8,4,5,p1ext.p1ext)^*F^{-3^*\sin x^4*\cos x - 1/2^*H21b(8,4,5,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^5*\sqrt{3} - 3/32^*H21b(8,5,5,qext.qext)^*F^{-3^*\cos x + 3/32^*H21b(8,5,5,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/4^*H21b(8,5,5,qext.qext)^*F^{-3^*\sin x^2*\cos x + 3/32^*H21b(8,6,6,qext.qext)^*F^{-} \\
& 3^*\cos x - 1/32^*H21b(8,6,6,qext.qext)^*F^{-3^*\sin x^*\sqrt{3} - 1/4^*H21b(8,6,6,qext.qext)^*F^{-} \\
& 3^*\sin x^2*\cos x + 1/16^*H21b(8,6,7,p1ext.p1ext)^*F^{-3^*\sin x^*\sqrt{3} + 1/4^*H21b(8,6,7,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^2*\cos x - 1/2^*H21b(8,6,7,p1ext.p1ext)^*F^{-3^*\sin x^3*\sqrt{3} - 1/2^*H21b(8,6,7,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^4*\cos x + 1/2^*H21b(8,6,7,p1ext.p1ext)^*F^{-3^*\sin x^5*\sqrt{3} + 3/32^*H21b(8,7,7,qext.qext)^*F^{-} \\
& 3^*\cos x - 1/32^*H21b(8,7,7,qext.qext)^*F^{-3^*\sin x^*\sqrt{3} - 1/4^*H21b(8,7,7,qext.qext)^*F^{-} \\
& 3^*\sin x^2*\cos x - 8/9^*HH1b(1,1,3,qext.qext)^*F^{-3^*\sin x^*\sqrt{3} - 16/9^*HH1b(1,1,3,qext.qext)^*F^{-} \\
& 3^*\sin x^2*\cos x - 2/9^*HH1b(1,1,8,qext.qext)^*F^{-3^*\sin x^*\sqrt{3} + 16/9^*HH1b(1,1,8,qext.qext)^*F^{-} \\
& 3^*\sin x^2*\cos x + 4/9^*HH1b(1,2,3,p1ext.p1ext)^*F^{-3^*\sin x^*\sqrt{3} + 8/3^*HH1b(1,2,3,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^2*\cos x - 16/9^*HH1b(1,2,3,p1ext.p1ext)^*F^{-3^*\sin x^4*\cos x + 1/9^*HH1b(1,2,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 14/9^*HH1b(1,2,8,p1ext.p1ext)^*F^{-3^*\sin x^2*\cos x + 16/9^*HH1b(1,2,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^4*\cos x + 1/6^*HH1b(1,5,6,p1ext.p1ext)^*F^{-3^*\cos x - 11/18^*HH1b(1,5,6,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 4/9^*HH1b(1,5,6,p1ext.p1ext)^*F^{-3^*\sin x^3*\sqrt{3} + 4/9^*HH1b(2,1,3,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 8/3^*HH1b(2,1,3,p1ext.p1ext)^*F^{-3^*\sin x^2*\cos x - 16/9^*HH1b(2,1,3,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^4*\cos x + 1/9^*HH1b(2,1,8,p1ext.p1ext)^*F^{-3^*\sin x^*\sqrt{3} - 14/9^*HH1b(2,1,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^2*\cos x + 16/9^*HH1b(2,1,8,p1ext.p1ext)^*F^{-3^*\sin x^4*\cos x - 8/9^*HH1b(2,2,3,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 16/9^*HH1b(2,2,3,qext.qext)^*F^{-3^*\sin x^2*\cos x - 2/9^*HH1b(2,2,8,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 16/9^*HH1b(2,2,8,qext.qext)^*F^{-3^*\sin x^2*\cos x + 1/6^*HH1b(2,4,7,p1ext.p1ext)^*F^{-} \\
& 3^*\cos x - 11/18^*HH1b(2,4,7,p1ext.p1ext)^*F^{-3^*\sin x^*\sqrt{3} + 4/9^*HH1b(2,4,7,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 1/3^*HH1b(3,4,4,qext.qext)^*F^{-3^*\cos x + 1/18^*HH1b(3,4,4,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/9^*HH1b(3,4,4,qext.qext)^*F^{-3^*\sin x^2*\cos x - 1/9^*HH1b(3,4,4,qext.qext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 11/12^*HH1b(3,4,5,p1ext.p1ext)^*F^{-3^*\cos x - 1/12^*HH1b(3,4,5,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 4/9^*HH1b(3,4,5,p1ext.p1ext)^*F^{-3^*\sin x^4*\cos x - 4/9^*HH1b(3,4,5,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^5*\sqrt{3} + 1/3^*HH1b(3,5,5,qext.qext)^*F^{-3^*\cos x + 1/18^*HH1b(3,5,5,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/9^*HH1b(3,5,5,qext.qext)^*F^{-3^*\sin x^2*\cos x - 1/9^*HH1b(3,5,5,qext.qext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 1/3^*HH1b(3,6,6,qext.qext)^*F^{-3^*\cos x + 1/3^*HH1b(3,6,6,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/9^*HH1b(3,6,6,qext.qext)^*F^{-3^*\sin x^2*\cos x + 1/9^*HH1b(3,6,6,qext.qext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 11/12^*HH1b(3,6,7,p1ext.p1ext)^*F^{-3^*\cos x - 35/36^*HH1b(3,6,7,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 4/9^*HH1b(3,6,7,p1ext.p1ext)^*F^{-3^*\sin x^4*\cos x + 4/9^*HH1b(3,6,7,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^5*\sqrt{3} - 1/3^*HH1b(3,7,7,qext.qext)^*F^{-3^*\cos x + 1/3^*HH1b(3,7,7,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/9^*HH1b(3,7,7,qext.qext)^*F^{-3^*\sin x^2*\cos x + 1/9^*HH1b(3,7,7,qext.qext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 1/3^*HH1b(4,1,6,qext.qext)^*F^{-3^*\sin x^*\sqrt{3} + 1/3^*HH1b(4,2,7,p1ext.p1ext)^*F^{-} \\
& 3^*\cos x - 8/9^*HH1b(4,2,7,p1ext.p1ext)^*F^{-3^*\sin x^*\sqrt{3} + 8/9^*HH1b(4,2,7,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 1/3^*HH1b(4,2,7,qext.qext)^*F^{-3^*\sin x^*\sqrt{3} - 1/6^*HH1b(4,4,8,qext.qext)^*F^{-} \\
& 3^*\cos x + 7/18^*HH1b(4,4,8,qext.qext)^*F^{-3^*\sin x^*\sqrt{3} - 2/9^*HH1b(4,4,8,qext.qext)^*F^{-} \\
& 3^*\sin x^2*\cos x - 2/9^*HH1b(4,4,8,qext.qext)^*F^{-3^*\sin x^3*\sqrt{3} - 1/12^*HH1b(4,5,8,p1ext.p1ext)^*F^{-} \\
& 3^*\cos x - 1/12^*HH1b(4,5,8,p1ext.p1ext)^*F^{-3^*\sin x^*\sqrt{3} - 5/9^*HH1b(4,5,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^2*\cos x + 5/9^*HH1b(4,5,8,p1ext.p1ext)^*F^{-3^*\sin x^3*\sqrt{3} + 4/9^*HH1b(4,5,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^4*\cos x - 4/9^*HH1b(4,5,8,p1ext.p1ext)^*F^{-3^*\sin x^5*\sqrt{3} + 1/3^*HH1b(5,1,6,p1ext.p1ext)^*F^{-} \\
& 3^*\cos x - 8/9^*HH1b(5,1,6,p1ext.p1ext)^*F^{-3^*\sin x^*\sqrt{3} + 8/9^*HH1b(5,1,6,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 1/3^*HH1b(5,1,7,qext.qext)^*F^{-3^*\sin x^*\sqrt{3} + 1/3^*HH1b(5,2,6,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/12^*HH1b(5,4,8,p1ext.p1ext)^*F^{-3^*\cos x - 1/12^*HH1b(5,4,8,p1ext.p1ext)^*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\sqrt{3} - 5/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-3^*}\sin x^2^*\cos x + 5/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-3^*}\sin x^3^*\sqrt{3} + 4/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-3^*}\sin x^4^*\cos x - 4/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-3^*}\sin x^5^*\sqrt{3} - 1/6^*\text{HH1b}(5,5,8,\text{qext.qext})^*F^{-3^*}\cos x + 7/18^*\text{HH1b}(5,5,8,\text{qext.qext})^*F^{-3^*}\sin x^*\sqrt{3} - 2/9^*\text{HH1b}(5,5,8,\text{qext.qext})^*F^{-3^*}\sin x^2^*\cos x - 2/9^*\text{HH1b}(5,5,8,\text{qext.qext})^*F^{-3^*}\sin x^3^*\sqrt{3} + 1/6^*\text{HH1b}(6,6,8,\text{qext.qext})^*F^{-3^*}\cos x - 1/6^*\text{HH1b}(6,6,8,\text{qext.qext})^*F^{-3^*}\sin x^*\sqrt{3} - 2/9^*\text{HH1b}(6,6,8,\text{qext.qext})^*F^{-3^*}\sin x^2^*\cos x + 2/9^*\text{HH1b}(6,6,8,\text{qext.qext})^*F^{-3^*}\sin x^3^*\sqrt{3} + 1/12^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*}\cos x + 5/36^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*}\sin x^*\sqrt{3} - 5/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*}\sin x^2^*\cos x - 5/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*}\sin x^3^*\sqrt{3} + 4/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*}\sin x^4^*\cos x + 4/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*}\sin x^5^*\sqrt{3} + 1/12^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*}\cos x + 5/36^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*}\sin x^*\sqrt{3} - 5/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*}\sin x^2^*\cos x - 5/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*}\sin x^3^*\sqrt{3} + 4/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*}\sin x^4^*\cos x + 4/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*}\sin x^5^*\sqrt{3} + 1/6^*\text{HH1b}(7,7,8,\text{qext.qext})^*F^{-3^*}\cos x - 1/6^*\text{HH1b}(7,7,8,\text{qext.qext})^*F^{-3^*}\sin x^*\sqrt{3} - 2/9^*\text{HH1b}(7,7,8,\text{qext.qext})^*F^{-3^*}\sin x^2^*\cos x + 2/9^*\text{HH1b}(7,7,8,\text{qext.qext})^*F^{-3^*}\sin x^3^*\sqrt{3}) \\
& + \text{mud}^*\text{mkp2} * (- 15/8192^*F^{-3^*}\cos x^*\pi^{-4} - 11/18432^*F^{-3^*}\cos x^*\pi^{-2} + 1/2^*F^{-3^*}\cos x^*\pi^{-2}^*\text{L8r} + F^{-3^*}\cos x^*\pi^{-2}^*\text{L6r} - 1/4^*F^{-3^*}\cos x^*\pi^{-2}^*\text{L5r} - 1/2^*F^{-3^*}\cos x^*\pi^{-2}^*\text{L4r} + 43/432^*F^{-3^*}\cos x^*\pi^{-2}^*\text{L3r} + 13/36^*F^{-3^*}\cos x^*\pi^{-2}^*\text{L2r} + 32^*F^{-3^*}\cos x^*\text{L4r}^2 - 32^*F^{-3^*}\cos x^*\text{CC16} + 91/1105920^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-4} + 169/1658880^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2} - 17/36^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2}^*\text{L8r} - 1/2^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2}^*\text{L6r} + 17/72^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2}^*\text{L5r} + 1/4^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2}^*\text{L4r} - 1/864^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2}^*\text{L3r} - 1/36^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2}^*\text{L2r} - 1/18^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2}^*\text{L1r} - 32/9^*F^{-3^*}\sin x^*\sqrt{3}^*\text{L5r}^2 - 32/3^*F^{-3^*}\sin x^*\sqrt{3}^*\text{L4r}^*\text{L5r} - 16/3^*F^{-3^*}\sin x^*\sqrt{3}^*\text{CC18} + 16/9^*F^{-3^*}\sin x^*\sqrt{3}^*\text{CC17} + 16/3^*F^{-3^*}\sin x^*\sqrt{3}^*\text{CC15} + 16/9^*F^{-3^*}\sin x^*\sqrt{3}^*\text{CC14} - 89/69120^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-4} - 7/12960^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-2} + 4/9^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-2}^*\text{L8r} - 2/9^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-2}^*\text{L5r} - 1/18^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-2}^*\text{L3r} + 256/3^*F^{-3^*}\sin x^2^*\cos x^*\text{CC18} + 256/9^*F^{-3^*}\sin x^2^*\cos x^*\text{CC17} + 256/9^*F^{-3^*}\sin x^2^*\cos x^*\text{CC14} + 125/248832^*C^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-4} + 1/18^*C^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2}^*\text{L8r} - 1/18^*C^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2}^*\text{L5r} + 125/15552^*C^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-4} + 8/9^*C^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-2}^*\text{L8r} - 8/9^*C^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-2}^*\text{L5r} - 23/138240^*C^2^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-4} - 23/8640^*C^2^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-4} + 1/1920^*C^*\ln(3)^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-4} + 1/120^*C^*\ln(3)^*F^{-3^*}\sin x^4^*\cos x^*\pi^{-4} + 23/92160^*C^*\ln(4)^*F^{-3^*}\cos x^*\pi^{-4} - 71/276480^*C^*\ln(4)^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-4} + 13/5760^*C^*\ln(4)^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-4} + 23/17280^*C^*\ln(4)^*F^{-3^*}\sin x^3^*\sqrt{3}^*\pi^{-4} - 23/92160^*C^*\ln(6)^*F^{-3^*}\cos x^*\pi^{-4} + 149/276480^*C^*\ln(6)^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-4} + 13/5760^*C^*\ln(6)^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-4} - 23/17280^*C^*\ln(6)^*F^{-3^*}\sin x^3^*\sqrt{3}^*\pi^{-4} + 1/120^*C^*\ln(8)^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-4} - 1/120^*C^*\ln(8)^*F^{-3^*}\sin x^4^*\cos x^*\pi^{-4} - 11/13824^*\ln(3)^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-4} - 2/27^*\ln(3)^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2}^*\text{L5r} - 1/9^*\ln(3)^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2}^*\text{L4r} + 1/6^*\ln(3)^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2}^*\text{L3r} + 1/3^*\ln(3)^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2}^*\text{L2r} + 1/3^*\ln(3)^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2}^*\text{L1r} + 1/576^*\ln(3)^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-4} - 4/27^*\ln(3)^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-2}^*\text{L5r} + 1/864^*\ln(3)^*F^{-3^*}\sin x^4^*\cos x^*\pi^{-4} - 8/27^*\ln(3)^*F^{-3^*}\sin x^4^*\cos x^*\pi^{-2}^*\text{L5r} - 79/138240^*\ln(3)^*\ln(4)^*F^{-3^*}
\end{aligned}$$

$$\begin{aligned}
& 3^*\cos x^*\pi^{-4} + 133/414720*\ln(3)*\ln(4)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-4}} + 1/1152*\ln(3)*\ln(4)*F^{-3*\sin x^2*\cos x^*\pi^{-4}} \\
& - 7/17280*\ln(3)*\ln(4)*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-4}} - 1/8640*\ln(3)*\ln(4)*F^{-3*\sin x^4*\cos x^*\pi^{-4}} \\
& - 1/25920*\ln(3)*\ln(4)*F^{-3*\sin x^5*\sqrt{3}^*\pi^{-4}} + 79/138240*\ln(3)*\ln(6)*F^{-3*\cos x^*\pi^{-4}} - 499/414720*\ln(3)*\ln(6)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-4}} \\
& + 1/1152*\ln(3)*\ln(6)*F^{-3*\sin x^2*\cos x^*\pi^{-4}} + 7/17280*\ln(3)*\ln(6)*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-4}} \\
& - 1/8640*\ln(3)*\ln(6)*F^{-3*\sin x^4*\cos x^*\pi^{-4}} + 1/25920*\ln(3)*\ln(6)*F^{-3*\sin x^5*\sqrt{3}^*\pi^{-4}} \\
& - 7/12288*\ln(4)*F^{-3*\cos x^*\pi^{-4}} + 1/24*\ln(4)*F^{-3*\cos x^*\pi^{-2}*L8r} + 1/3*\ln(4)*F^{-3*\cos x^*\pi^{-2}*L6r} \\
& - 11/144*\ln(4)*F^{-3*\cos x^*\pi^{-2}*L5r} - 1/4*\ln(4)*F^{-3*\cos x^*\pi^{-2}*L4r} - 1/32*\ln(4)*F^{-3*\cos x^*\pi^{-2}*L3r} \\
& + 5/4608*\ln(4)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-4}} - 1/8*\ln(4)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-2}*L8r} - 1/36*\ln(4)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-2}*L6r} \\
& + 1/54*\ln(4)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-2}*L5r} + 1/48*\ln(4)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-2}*L4r} + 3/32*\ln(4)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-2}*L3r} \\
& - 1/768*\ln(4)*F^{-3*\sin x^2*\cos x^*\pi^{-4}} + 2/9*\ln(4)*F^{-3*\sin x^2*\cos x^*\pi^{-2}*L8r} - 1/9*\ln(4)*F^{-3*\sin x^2*\cos x^*\pi^{-2}*L5r} \\
& - 1/6*\ln(4)*F^{-3*\sin x^2*\cos x^*\pi^{-2}*L3r} - 1/576*\ln(4)*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-4}} + 2/9*\ln(4)*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-2}*L8r} \\
& + 4/9*\ln(4)*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-2}*L6r} - 2/27*\ln(4)*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-2}*L5r} - 1/3*\ln(4)*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-2}*L4r} \\
& - 1/6*\ln(4)*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-2}*L3r} - 127/368640*\ln(4)^2*F^{-3*\cos x^*\pi^{-4}} + 167/276480*\ln(4)^2*F^{-3*\sin x^*\sqrt{3}^*\pi^{-4}} \\
& - 1/2160*\ln(4)^2*F^{-3*\sin x^2*\cos x^*\pi^{-4}} - 13/17280*\ln(4)^2*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-4}} + 1/1152*\ln(4)^2*F^{-3*\sin x^4*\cos x^*\pi^{-4}} \\
& + 5/12288*\ln(4)*\ln(6)*F^{-3*\cos x^*\pi^{-4}} - 13/138240*\ln(4)*\ln(6)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-4}} + 1/4320*\ln(4)*\ln(6)*F^{-3*\sin x^2*\cos x^*\pi^{-4}} \\
& - 1/576*\ln(4)*\ln(6)*F^{-3*\sin x^4*\cos x^*\pi^{-4}} + 7/17280*\ln(4)*\ln(8)*F^{-3*\cos x^*\pi^{-4}} - 101/414720*\ln(4)*\ln(8)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-4}} \\
& - 17/17280*\ln(4)*\ln(8)*F^{-3*\sin x^2*\cos x^*\pi^{-4}} + 1/10368*\ln(4)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-4}} + 1/8640*\ln(4)*\ln(8)*F^{-3*\sin x^4*\cos x^*\pi^{-4}} \\
& + 1/25920*\ln(4)*\ln(8)*F^{-3*\sin x^5*\sqrt{3}^*\pi^{-4}} - 17/12288*\ln(6)*F^{-3*\cos x^*\pi^{-4}} + 11/24*\ln(6)*F^{-3*\cos x^*\pi^{-2}*L8r} \\
& + 2/3*\ln(6)*F^{-3*\cos x^*\pi^{-2}*L6r} - 25/144*\ln(6)*F^{-3*\cos x^*\pi^{-2}*L5r} + 1/2*\ln(6)*F^{-3*\cos x^*\pi^{-2}*L4r} - 19/32*\ln(6)*F^{-3*\cos x^*\pi^{-2}*L3r} \\
& - 1/2*\ln(6)*F^{-3*\cos x^*\pi^{-2}*L2r} - 2*\ln(6)*F^{-3*\cos x^*\pi^{-2}*L1r} + 1/4608*\ln(6)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-4}} - 25/72*\ln(6)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-2}*L8r} \\
& - 17/36*\ln(6)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-2}*L6r} + 7/27*\ln(6)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-2}*L5r} + 17/48*\ln(6)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-2}*L4r} \\
& + 1/96*\ln(6)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-2}*L3r} - 1/768*\ln(6)*F^{-3*\sin x^2*\cos x^*\pi^{-4}} + 2/9*\ln(6)*F^{-3*\sin x^2*\cos x^*\pi^{-2}*L8r} \\
& - 1/9*\ln(6)*F^{-3*\sin x^2*\cos x^*\pi^{-2}*L5r} - 1/6*\ln(6)*F^{-3*\sin x^2*\cos x^*\pi^{-2}*L3r} + 1/576*\ln(6)*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-4}} \\
& - 2/9*\ln(6)*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-2}*L8r} - 4/9*\ln(6)*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-2}*L6r} + 2/27*\ln(6)*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-2}*L5r} \\
& + 1/3*\ln(6)*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-2}*L4r} + 1/6*\ln(6)*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-2}*L3r} - 23/368640*\ln(6)^2*F^{-3*\cos x^*\pi^{-4}} \\
& - 17/30720*\ln(6)^2*F^{-3*\sin x^*\sqrt{3}^*\pi^{-4}} - 1/2160*\ln(6)^2*F^{-3*\sin x^2*\cos x^*\pi^{-4}} + 13/17280*\ln(6)^2*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-4}} \\
& + 1/1152*\ln(6)^2*F^{-3*\sin x^4*\cos x^*\pi^{-4}} + 1/2160*\ln(6)*\ln(8)*F^{-3*\cos x^*\pi^{-4}} + 11/414720*\ln(6)*\ln(8)*F^{-3*\sin x^*\sqrt{3}^*\pi^{-4}} \\
& - 17/17280*\ln(6)*\ln(8)*F^{-3*\sin x^2*\cos x^*\pi^{-4}} - 1/10368*\ln(6)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}^*\pi^{-4}} + 1/8640*\ln(6)*\ln(8)*F^{-3*\sin x^4*\cos x^*\pi^{-4}} \\
& - 1/25920*\ln(6)*\ln(8)*F^{-3*\sin x^5*\sqrt{3}^*\pi^{-4}} + 1/1152*\ln(8)*F^{-3*\cos x^*\pi^{-4}} + 4/9*\ln(8)*F^{-3*\cos x^*\pi^{-2}*L4r} \\
& - 2/9*\ln(8)*F^{-3*\cos x^*\pi^{-2}*L3r} - 2/9*\ln(8)*F^{-3*\cos x^*\pi^{-2}*L1r}
\end{aligned}$$

$$\begin{aligned}
& 2^*L2r - 8/9*\ln(8)*F^{-3}*\cosx*\pi^{-2}*L1r - 1/4608*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4} + \\
& 1/27*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L5r + 1/9*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L4r \\
& - 1/18*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L3r - 1/18*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2} \\
& *L2r - 2/9*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L1r - 1/1728*\ln(8)*F^{-3}*\sinx^2*\cosx*\pi^{-4} \\
& - 4/27*\ln(8)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L5r - 1/864*\ln(8)*F^{-3}*\sinx^4*\cosx*\pi^{-4} \\
& + 8/27*\ln(8)*F^{-3}*\sinx^4*\cosx*\pi^{-2}*L5r + 4/9*\text{Hb}(1,2,3,\text{plext.plext})*F^{-3} \\
& *sinx*\sqrt{3}*m83^{-1} + 16/9*\text{Hb}(1,2,3,\text{plext.plext})*F^{-3}*\sinx^4*\cosx*m83^{-1} \\
& - 8/9*\text{Hb}(1,2,3,1,\text{plext.plext})*F^{-3}*\sinx^2*\cosx + 8/9*\text{Hb}(1,2,3,1,\text{plext.plext})*F^{-3} \\
& *sinx^4*\cosx + 8/27*\text{Hb}(1,2,8,\text{plext.plext})*F^{-3}*\sinx*\sqrt{3}*m83^{-1} - \\
& 16/9*\text{Hb}(1,2,8,\text{plext.plext})*F^{-3}*\sinx^2*\cosx*m83^{-1} - 16/9*\text{Hb}(1,2,8,\text{plext.plext})*F^{-3} \\
& *sinx^4*\cosx*m83^{-1} - 2/9*\text{Hb}(1,2,8,1,\text{plext.plext})*F^{-3}*\sinx*\sqrt{3} - \\
& 8/9*\text{Hb}(1,2,8,1,\text{plext.plext})*F^{-3}*\sinx^4*\cosx - 8/9*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3} \\
& *sinx^2*\cosx*m83^{-1} - 8/9*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3}*\sinx^3*\sqrt{3}*m83^{-1} \\
& - 1/3*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3}*\cosx + 1/3*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3} \\
& *sinx*\sqrt{3} - 4/9*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3}*\sinx^2*\cosx - 4/9*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3} \\
& *sinx^3*\sqrt{3} - 8/9*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3}*\sinx^2*\cosx*m83^{-1} - \\
& 8/9*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3}*\sinx^3*\sqrt{3}*m83^{-1} - 1/3*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3} \\
& *cosx + 1/3*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3}*\sinx*\sqrt{3} - 4/9*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3} \\
& *sinx^2*\cosx - 4/9*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3}*\sinx^3*\sqrt{3} - 1/9*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3} \\
& *sinx*\sqrt{3}*m83^{-1} - 4/9*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3}*\sinx^4*\cosx*m83^{-1} + \\
& 2/9*\text{Hb}(3,1,2,1,\text{plext.plext})*F^{-3}*\sinx^2*\cosx - 2/9*\text{Hb}(3,1,2,1,\text{plext.plext})*F^{-3} \\
& *sinx^4*\cosx - 4/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3}*\sinx*\sqrt{3}*m83^{-1} - \\
& 16/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3}*\sinx^2*\cosx*m83^{-1} - 352/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3} \\
& *sinx^4*\cosx*m83^{-1} + 256/81*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3}*\sinx^6*\cosx*m83^{-1} \\
& - 512/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3}*\sinx^8*\cosx*m83^{-1} + 64/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3} \\
& *sinx^2*\cosx - 128/81*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sinx^4*\cosx + \\
& 512/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sinx^6*\cosx - 256/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3} \\
& *sinx^8*\cosx - 4/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sinx*\sqrt{3}*m83^{-1} + \\
& 16/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sinx^2*\cosx*m83^{-1} + 224/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3} \\
& *sinx^4*\cosx*m83^{-1} - 256/27*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sinx^6*\cosx*m83^{-1} \\
& + 512/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sinx^8*\cosx*m83^{-1} - 32/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3} \\
& *sinx^2*\cosx + 32/9*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3}*\sinx^4*\cosx - 512/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3} \\
& *sinx^6*\cosx + 256/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3}*\sinx^8*\cosx - \\
& 4/27*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\cosx*m83^{-1} + 53/162*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3} \\
& *sinx*\sqrt{3}*m83^{-1} - 20/27*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sinx^2*\cosx*m83^{-1} \\
& + 41/81*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sinx^3*\sqrt{3}*m83^{-1} - 2/27*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3} \\
& *sinx^4*\cosx*m83^{-1} - 2/27*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sinx^5*\sqrt{3}*m83^{-1} \\
& + 13/72*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\cosx - 1/24*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3} \\
& *sinx*\sqrt{3} - 5/9*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sinx^2*\cosx + 5/18*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3} \\
& *sinx^3*\sqrt{3} - 1/27*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sinx^4*\cosx - 1/27*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3} \\
& *sinx^5*\sqrt{3} + 4/27*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\cosx*m83^{-1} - 11/162*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3} \\
& *sinx*\sqrt{3}*m83^{-1} - 20/27*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sinx^2*\cosx*m83^{-1} \\
& - 41/81*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sinx^3*\sqrt{3}*m83^{-1} - 2/27*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3} \\
& *sinx^4*\cosx*m83^{-1} + 2/27*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sinx^5*\sqrt{3}*m83^{-1} \\
& - 13/72*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\cosx + 95/216*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3} \\
& *sinx*\sqrt{3} - 5/9*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sinx^2*\cosx - 5/18*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^3*\sqrt{3} - 1/27*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 1/27*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} \\
& + 4/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 16/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 224/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& + 256/27*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x^6*\cos x*m83^{-1} - 1 - 512/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x^8*\cos x*m83^{-1} - 256/81*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x \\
& + 512/81*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin x^6*\cos x - 256/81*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin x^8*\cos x - 1/24*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} \\
& + 1/18*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 2/9*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/12*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\cos x + 1/9*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/9*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + 4/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 43/81*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 8/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 68/81*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 40/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 8/9*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - 1 - 1/18*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\cos x - 1/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 8/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 14/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 20/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 4/9*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} - 1/24*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 1/18*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 2/9*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/12*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\cos x + 1/9*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/9*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + 1/24*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 1/18*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 2/9*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/12*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\cos x - 1/9*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/9*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 4/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 11/81*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 8/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 68/81*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 40/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - 8/9*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 1/18*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\cos x - 5/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 8/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 14/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 20/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 4/9*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} + 1/24*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 1/18*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 2/9*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/12*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\cos x - 1/9*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/9*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + 1/9*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 4/9*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - 2/9*\text{Hb}(8,1,2,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 2/9*\text{Hb}(8,1,2,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 1/12*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 1/6*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 1/3*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 2/9*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - 2/9*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 1/24*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\cos x - 1/18*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/9*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/6*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/9*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 1/9*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} - 1/12*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 1/18*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 1/3*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 2/9*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 2/9*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 3^3 \sin^5 \sqrt{3} m^{83}^{-1} - 1/24 \text{Hb}(8,6,7,1, \text{plext.plext}) F^{-3} \cos x + 1/18 \text{Hb}(8,6,7,1, \text{plext.plext}) F^{-} \\
& 3^3 \sin^5 \sqrt{3} + 1/9 \text{Hb}(8,6,7,1, \text{plext.plext}) F^{-3} \sin^2 \cos x - 1/6 \text{Hb}(8,6,7,1, \text{plext.plext}) F^{-} \\
& 3^3 \sin^3 \sqrt{3} - 1/9 \text{Hb}(8,6,7,1, \text{plext.plext}) F^{-3} \sin^4 \cos x + 1/9 \text{Hb}(8,6,7,1, \text{plext.plext}) F^{-} \\
& 3^3 \sin^5 \sqrt{3} - 4/243 \text{Hb}(8,8,8, \text{plext.plext}) F^{-3} \sin^5 \sqrt{3} m^{83}^{-1} - \\
& 112/243 \text{Hb}(8,8,8, \text{plext.plext}) F^{-3} \sin^2 \cos^2 m^{83}^{-1} + 352/243 \text{Hb}(8,8,8, \text{plext.plext}) F^{-} \\
& 3^3 \sin^4 \cos^2 m^{83}^{-1} - 256/81 \text{Hb}(8,8,8, \text{plext.plext}) F^{-3} \sin^6 \cos^2 m^{83}^{-} \\
& 1 + 512/243 \text{Hb}(8,8,8, \text{plext.plext}) F^{-3} \sin^8 \cos^2 m^{83}^{-1} - 32/243 \text{Hb}(8,8,8,1, \text{plext.plext}) F^{-} \\
& 3^3 \sin^2 \cos^2 + 32/27 \text{Hb}(8,8,8,1, \text{plext.plext}) F^{-3} \sin^4 \cos^2 - 512/243 \text{Hb}(8,8,8,1, \text{plext.plext}) F^{-} \\
& 3^3 \sin^6 \cos^2 + 256/243 \text{Hb}(8,8,8,1, \text{plext.plext}) F^{-3} \sin^8 \cos^2 + \\
& 1/2 \text{H21b}(1,5,6, \text{plext.plext}) F^{-3} \sin^5 \sqrt{3} m^{83}^{-1} - 2/3 \text{H21b}(1,5,6, \text{plext.plext}) F^{-} \\
& 3^3 \sin^2 \cos^2 m^{83}^{-1} + 1/6 \text{H21b}(1,5,6,1, \text{plext.plext}) F^{-3} \sin^5 \sqrt{3} - \\
& 1/3 \text{H21b}(1,5,6,1, \text{plext.plext}) F^{-3} \sin^2 \cos^2 + 1/2 \text{H21b}(2,4,7, \text{plext.plext}) F^{-} \\
& 3^3 \sin^5 \sqrt{3} m^{83}^{-1} - 2/3 \text{H21b}(2,4,7, \text{plext.plext}) F^{-3} \sin^2 \cos^2 m^{83}^{-1} \\
& + 1/6 \text{H21b}(2,4,7,1, \text{plext.plext}) F^{-3} \sin^5 \sqrt{3} - 1/3 \text{H21b}(2,4,7,1, \text{plext.plext}) F^{-} \\
& 3^3 \sin^2 \cos^2 - 1/3 \text{H21b}(3,1,2, \text{plext.plext}) F^{-3} \sin^5 \sqrt{3} m^{83}^{-1} - \\
& 4/3 \text{H21b}(3,1,2, \text{plext.plext}) F^{-3} \sin^4 \cos^2 m^{83}^{-1} + 2/3 \text{H21b}(3,1,2,1, \text{plext.plext}) F^{-} \\
& 3^3 \sin^2 \cos^2 - 2/3 \text{H21b}(3,1,2,1, \text{plext.plext}) F^{-3} \sin^4 \cos^2 + 1/6 \text{H21b}(3,4,5, \text{plext.plext}) F^{-} \\
& 3^3 \sin^5 \sqrt{3} m^{83}^{-1} + 1/3 \text{H21b}(3,4,5, \text{plext.plext}) F^{-3} \sin^3 \sqrt{3} m^{83}^{-} \\
& 1 + 2/3 \text{H21b}(3,4,5, \text{plext.plext}) F^{-3} \sin^4 \cos^2 m^{83}^{-1} + 2/3 \text{H21b}(3,4,5, \text{plext.plext}) F^{-} \\
& 3^3 \sin^5 \sqrt{3} m^{83}^{-1} + 3/8 \text{H21b}(3,4,5,1, \text{plext.plext}) F^{-3} \cos^2 - \\
& 1/8 \text{H21b}(3,4,5,1, \text{plext.plext}) F^{-3} \sin^5 \sqrt{3} - 1/3 \text{H21b}(3,4,5,1, \text{plext.plext}) F^{-} \\
& 3^3 \sin^2 \cos^2 + 1/6 \text{H21b}(3,4,5,1, \text{plext.plext}) F^{-3} \sin^3 \sqrt{3} + \\
& 1/3 \text{H21b}(3,4,5,1, \text{plext.plext}) F^{-3} \sin^4 \cos^2 + 1/3 \text{H21b}(3,4,5,1, \text{plext.plext}) F^{-} \\
& 3^3 \sin^5 \sqrt{3} + 1/6 \text{H21b}(3,6,7, \text{plext.plext}) F^{-3} \sin^5 \sqrt{3} m^{83}^{-1} - \\
& 1/3 \text{H21b}(3,6,7, \text{plext.plext}) F^{-3} \sin^3 \sqrt{3} m^{83}^{-1} + 2/3 \text{H21b}(3,6,7, \text{plext.plext}) F^{-} \\
& 3^3 \sin^4 \cos^2 m^{83}^{-1} - 2/3 \text{H21b}(3,6,7, \text{plext.plext}) F^{-3} \sin^5 \sqrt{3} m^{83}^{-} \\
& 1 - 3/8 \text{H21b}(3,6,7,1, \text{plext.plext}) F^{-3} \cos^2 + 7/8 \text{H21b}(3,6,7,1, \text{plext.plext}) F^{-} \\
& 3^3 \sin^5 \sqrt{3} - 1/3 \text{H21b}(3,6,7,1, \text{plext.plext}) F^{-3} \sin^2 \cos^2 - 1/6 \text{H21b}(3,6,7,1, \text{plext.plext}) F^{-} \\
& 3^3 \sin^3 \sqrt{3} + 1/3 \text{H21b}(3,6,7,1, \text{plext.plext}) F^{-3} \sin^4 \cos^2 - 1/3 \text{H21b}(3,6,7,1, \text{plext.plext}) F^{-} \\
& 3^3 \sin^5 \sqrt{3} + 1/4 \text{H21b}(4,2,7, \text{plext.plext}) F^{-3} \cos^2 m^{83}^{-1} - 7/12 \text{H21b}(4,2,7, \text{plext.plext}) F^{-} \\
& 3^3 \sin^5 \sqrt{3} m^{83}^{-1} + 1/3 \text{H21b}(4,2,7, \text{plext.plext}) F^{-3} \sin^2 \cos^2 m^{83}^{-} \\
& 1 - 1/3 \text{H21b}(4,2,7, \text{plext.plext}) F^{-3} \sin^3 \sqrt{3} m^{83}^{-1} - 1/8 \text{H21b}(4,2,7,1, \text{plext.plext}) F^{-} \\
& 3^3 \cos^2 + 5/24 \text{H21b}(4,2,7,1, \text{plext.plext}) F^{-3} \sin^5 \sqrt{3} + 1/6 \text{H21b}(4,2,7,1, \text{plext.plext}) F^{-} \\
& 3^3 \sin^2 \cos^2 - 1/6 \text{H21b}(4,2,7,1, \text{plext.plext}) F^{-3} \sin^3 \sqrt{3} + 1/4 \text{H21b}(5,1,6, \text{plext.plext}) F^{-} \\
& 3^3 \cos^2 m^{83}^{-1} - 7/12 \text{H21b}(5,1,6, \text{plext.plext}) F^{-3} \sin^5 \sqrt{3} m^{83}^{-1} + \\
& 1/3 \text{H21b}(5,1,6, \text{plext.plext}) F^{-3} \sin^2 \cos^2 m^{83}^{-1} - 1/3 \text{H21b}(5,1,6, \text{plext.plext}) F^{-} \\
& 3^3 \sin^3 \sqrt{3} m^{83}^{-1} - 1/8 \text{H21b}(5,1,6,1, \text{plext.plext}) F^{-3} \cos^2 + \\
& 5/24 \text{H21b}(5,1,6,1, \text{plext.plext}) F^{-3} \sin^5 \sqrt{3} + 1/6 \text{H21b}(5,1,6,1, \text{plext.plext}) F^{-} \\
& 3^3 \sin^2 \cos^2 - 1/6 \text{H21b}(5,1,6,1, \text{plext.plext}) F^{-3} \sin^3 \sqrt{3} - 1/4 \text{H21b}(6,1,5, \text{plext.plext}) F^{-} \\
& 3^3 \cos^2 m^{83}^{-1} + 1/12 \text{H21b}(6,1,5, \text{plext.plext}) F^{-3} \sin^5 \sqrt{3} m^{83}^{-1} + \\
& 1/3 \text{H21b}(6,1,5, \text{plext.plext}) F^{-3} \sin^2 \cos^2 m^{83}^{-1} + 1/3 \text{H21b}(6,1,5, \text{plext.plext}) F^{-} \\
& 3^3 \sin^3 \sqrt{3} m^{83}^{-1} + 1/8 \text{H21b}(6,1,5,1, \text{plext.plext}) F^{-3} \cos^2 - \\
& 1/8 \text{H21b}(6,1,5,1, \text{plext.plext}) F^{-3} \sin^5 \sqrt{3} + 1/6 \text{H21b}(6,1,5,1, \text{plext.plext}) F^{-} \\
& 3^3 \sin^2 \cos^2 + 1/6 \text{H21b}(6,1,5,1, \text{plext.plext}) F^{-3} \sin^3 \sqrt{3} - 1/4 \text{H21b}(7,2,4, \text{plext.plext}) F^{-} \\
& 3^3 \cos^2 m^{83}^{-1} + 1/12 \text{H21b}(7,2,4, \text{plext.plext}) F^{-3} \sin^5 \sqrt{3} m^{83}^{-1} + \\
& 1/3 \text{H21b}(7,2,4, \text{plext.plext}) F^{-3} \sin^2 \cos^2 m^{83}^{-1} + 1/3 \text{H21b}(7,2,4, \text{plext.plext}) F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^3*\sqrt{3}*m83^{-1} + 1/8*H21b(7,2,4,1,plext.plext)*F^{-3}*\cos x - \\
& 1/8*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 1/6*H21b(7,2,4,1,plext.plext)*F^{-3} \\
& 3^*\sin x^2*\cos x + 1/6*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 2/3*H21b(8,1,2,plext.plext)*F^{-3} \\
& 3^*\sin x*\sqrt{3}*m83^{-1} + 4/3*H21b(8,1,2,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& 1 + 4/3*H21b(8,1,2,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} + 1/6*H21b(8,1,2,1,plext.plext)*F^{-3} \\
& 3^*\sin x*\sqrt{3} + 2/3*H21b(8,1,2,1,plext.plext)*F^{-3}*\sin x^4*\cos x - 1/2*H21b(8,4,5,plext.plext)*F^{-3} \\
& 3^*\cos x*m83^{-1} + H21b(8,4,5,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 2/3*H21b(8,4,5,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/3*H21b(8,4,5,plext.plext)*F^{-3} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} - 2/3*H21b(8,4,5,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& 1 - 2/3*H21b(8,4,5,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - 1/8*H21b(8,4,5,1,plext.plext)*F^{-3} \\
& 3^*\cos x + 5/24*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 1/6*H21b(8,4,5,1,plext.plext)*F^{-3} \\
& 3^*\sin x^3*\sqrt{3} - 1/3*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin x^4*\cos x - 1/3*H21b(8,4,5,1,plext.plext)*F^{-3} \\
& 3^*\sin x^5*\sqrt{3} + 1/2*H21b(8,6,7,plext.plext)*F^{-3}*\cos x*m83^{-1} - 1/3*H21b(8,6,7,plext.plext)*F^{-3} \\
& 3^*\sin x*\sqrt{3}*m83^{-1} - 2/3*H21b(8,6,7,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& - 1/3*H21b(8,6,7,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 2/3*H21b(8,6,7,plext.plext)*F^{-3} \\
& 3^*\sin x^4*\cos x*m83^{-1} + 2/3*H21b(8,6,7,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} \\
& 1 + 1/8*H21b(8,6,7,1,plext.plext)*F^{-3}*\cos x - 1/8*H21b(8,6,7,1,plext.plext)*F^{-3} \\
& 3^*\sin x*\sqrt{3} - 1/6*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 1/3*H21b(8,6,7,1,plext.plext)*F^{-3} \\
& 3^*\sin x^4*\cos x + 1/3*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} - 22/27*HH1b(1,2,3,plext.plext)*F^{-3} \\
& 3^*\sin x*\sqrt{3}*m83^{-1} + 8/27*HH1b(1,2,3,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& 1 - 32/9*HH1b(1,2,3,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} + 16/9*HH1b(1,2,3,1,plext.plext)*F^{-3} \\
& 3^*\sin x^2*\cos x - 16/9*HH1b(1,2,3,1,plext.plext)*F^{-3}*\sin x^4*\cos x - 2/9*HH1b(1,2,8,plext.plext)*F^{-3} \\
& 3^*\sin x*\sqrt{3}*m83^{-1} + 40/27*HH1b(1,2,8,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& 1 + 32/9*HH1b(1,2,8,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} + 2/9*HH1b(1,2,8,1,plext.plext)*F^{-3} \\
& 3^*\sin x*\sqrt{3} - 8/9*HH1b(1,2,8,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 16/9*HH1b(1,2,8,1,plext.plext)*F^{-3} \\
& 3^*\sin x^4*\cos x - 2/9*HH1b(1,5,6,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 8/9*HH1b(1,5,6,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 8/9*HH1b(1,5,6,plext.plext)*F^{-3} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} + 1/3*HH1b(1,5,6,1,plext.plext)*F^{-3}*\cos x - \\
& 5/9*HH1b(1,5,6,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 4/9*HH1b(1,5,6,1,plext.plext)*F^{-3} \\
& 3^*\sin x^2*\cos x + 4/9*HH1b(1,5,6,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - \\
& 22/27*HH1b(2,1,3,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 8/27*HH1b(2,1,3,plext.plext)*F^{-3} \\
& 3^*\sin x^2*\cos x*m83^{-1} - 32/9*HH1b(2,1,3,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& 1 + 16/9*HH1b(2,1,3,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 16/9*HH1b(2,1,3,1,plext.plext)*F^{-3} \\
& 3^*\sin x^4*\cos x - 2/9*HH1b(2,1,8,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + \\
& 40/27*HH1b(2,1,8,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 32/9*HH1b(2,1,8,plext.plext)*F^{-3} \\
& 3^*\sin x^4*\cos x*m83^{-1} + 2/9*HH1b(2,1,8,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - \\
& 8/9*HH1b(2,1,8,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 16/9*HH1b(2,1,8,1,plext.plext)*F^{-3} \\
& 3^*\sin x^4*\cos x - 2/9*HH1b(2,4,7,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 8/9*HH1b(2,4,7,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 8/9*HH1b(2,4,7,plext.plext)*F^{-3} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} + 1/3*HH1b(2,4,7,1,plext.plext)*F^{-3}*\cos x - \\
& 5/9*HH1b(2,4,7,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 4/9*HH1b(2,4,7,1,plext.plext)*F^{-3} \\
& 3^*\sin x^2*\cos x + 4/9*HH1b(2,4,7,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + \\
& 2/9*HH1b(3,4,5,plext.plext)*F^{-3}*\cos x*m83^{-1} - 13/27*HH1b(3,4,5,plext.plext)*F^{-3} \\
& 3^*\sin x*\sqrt{3}*m83^{-1} + 4/27*HH1b(3,4,5,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& 1 - 4/9*HH1b(3,4,5,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 16/9*HH1b(3,4,5,plext.plext)*F^{-3} \\
& 3^*\sin x^4*\cos x*m83^{-1} - 16/27*HH1b(3,4,5,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1 - 1/3^*HH1b(3,4,5,1,plext.plext)*F^{-3*cosx} - 4/27^*HH1b(3,4,5,1,plext.plext)*F^{-3*sinx^3*sqrt3} + 8/9^*HH1b(3,4,5,1,plext.plext)*F^{-3*sinx^4*cosx} - \\
& 8/27^*HH1b(3,4,5,1,plext.plext)*F^{-3*sinx^5*sqrt3} - 2/9^*HH1b(3,6,7,plext.plext)*F^{-3*cosx*m83^{-1}} + 1/9^*HH1b(3,6,7,plext.plext)*F^{-3*sinx*sqrt3*m83^{-1}} + \\
& 4/27^*HH1b(3,6,7,plext.plext)*F^{-3*sinx^2*cosx*m83^{-1}} + 4/9^*HH1b(3,6,7,plext.plext)*F^{-3*sinx^3*sqrt3*m83^{-1}} + 16/9^*HH1b(3,6,7,plext.plext)*F^{-3*sinx^4*cosx*m83^{-1}} \\
& + 16/27^*HH1b(3,6,7,plext.plext)*F^{-3*sinx^5*sqrt3*m83^{-1}} + 1/3^*HH1b(3,6,7,1,plext.plext)*F^{-3*cosx} - 8/9^*HH1b(3,6,7,1,plext.plext)*F^{-3*sinx*sqrt3} + 4/27^*HH1b(3,6,7,1,plext.plext)*F^{-3*sinx^3*sqrt3} + \\
& 8/9^*HH1b(3,6,7,1,plext.plext)*F^{-3*sinx^4*cosx} + 8/27^*HH1b(3,6,7,1,plext.plext)*F^{-3*sinx^5*sqrt3} + 16/9^*HH1b(4,2,7,plext.plext)*F^{-3*sinx^3*sqrt3*m83^{-1}} + \\
& 2/3^*HH1b(4,2,7,1,plext.plext)*F^{-3*cosx} - 8/9^*HH1b(4,2,7,1,plext.plext)*F^{-3*sinx*sqrt3} + 8/9^*HH1b(4,2,7,1,plext.plext)*F^{-3*sinx^3*sqrt3} - \\
& 2/9^*HH1b(4,5,8,plext.plext)*F^{-3*cosx*m83^{-1}} + 17/27^*HH1b(4,5,8,plext.plext)*F^{-3*sinx*sqrt3*m83^{-1}} - 20/27^*HH1b(4,5,8,plext.plext)*F^{-3*sinx^2*cosx*m83^{-1}} \\
& + 4/9^*HH1b(4,5,8,plext.plext)*F^{-3*sinx^3*sqrt3*m83^{-1}} + 16/9^*HH1b(4,5,8,plext.plext)*F^{-3*sinx^4*cosx*m83^{-1}} - 16/27^*HH1b(4,5,8,plext.plext)*F^{-3*sinx^5*sqrt3*m83^{-1}} \\
& + 1/9^*HH1b(4,5,8,1,plext.plext)*F^{-3*sinx*sqrt3} - 4/9^*HH1b(4,5,8,1,plext.plext)*F^{-3*sinx^2*cosx} + 8/27^*HH1b(4,5,8,1,plext.plext)*F^{-3*sinx^3*sqrt3} + \\
& 8/9^*HH1b(4,5,8,1,plext.plext)*F^{-3*sinx^4*cosx} - 8/27^*HH1b(4,5,8,1,plext.plext)*F^{-3*sinx^5*sqrt3} + 16/9^*HH1b(5,1,6,plext.plext)*F^{-3*sinx^3*sqrt3*m83^{-1}} + \\
& 2/3^*HH1b(5,1,6,1,plext.plext)*F^{-3*cosx} - 8/9^*HH1b(5,1,6,1,plext.plext)*F^{-3*sinx*sqrt3} + 8/9^*HH1b(5,1,6,1,plext.plext)*F^{-3*sinx^3*sqrt3} - 2/9^*HH1b(5,4,8,plext.plext)*F^{-3*cosx*m83^{-1}} \\
& + 17/27^*HH1b(5,4,8,plext.plext)*F^{-3*sinx*sqrt3*m83^{-1}} - 20/27^*HH1b(5,4,8,plext.plext)*F^{-3*sinx^2*cosx*m83^{-1}} + 4/9^*HH1b(5,4,8,plext.plext)*F^{-3*sinx^3*sqrt3*m83^{-1}} + 16/9^*HH1b(5,4,8,plext.plext)*F^{-3*sinx^4*cosx*m83^{-1}} \\
& - 16/27^*HH1b(5,4,8,plext.plext)*F^{-3*sinx^5*sqrt3*m83^{-1}} + 1/9^*HH1b(5,4,8,1,plext.plext)*F^{-3*sinx*sqrt3} - 4/9^*HH1b(5,4,8,1,plext.plext)*F^{-3*sinx^2*cosx} + 8/27^*HH1b(5,4,8,1,plext.plext)*F^{-3*sinx^3*sqrt3} + \\
& 8/9^*HH1b(5,4,8,1,plext.plext)*F^{-3*sinx^4*cosx} - 8/27^*HH1b(5,4,8,1,plext.plext)*F^{-3*sinx^5*sqrt3} + 2/9^*HH1b(6,7,8,plext.plext)*F^{-3*cosx*m83^{-1}} + 1/27^*HH1b(6,7,8,plext.plext)*F^{-3*sinx*sqrt3*m83^{-1}} - \\
& 20/27^*HH1b(6,7,8,plext.plext)*F^{-3*sinx^2*cosx*m83^{-1}} - 4/9^*HH1b(6,7,8,plext.plext)*F^{-3*sinx^3*sqrt3*m83^{-1}} + 16/9^*HH1b(6,7,8,plext.plext)*F^{-3*sinx^4*cosx*m83^{-1}} \\
& + 16/27^*HH1b(6,7,8,plext.plext)*F^{-3*sinx^5*sqrt3*m83^{-1}} + 1/9^*HH1b(6,7,8,1,plext.plext)*F^{-3*sinx*sqrt3} - 4/9^*HH1b(6,7,8,1,plext.plext)*F^{-3*sinx^2*cosx} - 8/27^*HH1b(6,7,8,1,plext.plext)*F^{-3*sinx^3*sqrt3} + \\
& 8/9^*HH1b(6,7,8,1,plext.plext)*F^{-3*sinx^4*cosx} + 8/27^*HH1b(6,7,8,1,plext.plext)*F^{-3*sinx^5*sqrt3} + 2/9^*HH1b(7,6,8,plext.plext)*F^{-3*cosx*m83^{-1}} + 1/27^*HH1b(7,6,8,plext.plext)*F^{-3*sinx*sqrt3*m83^{-1}} - \\
& 20/27^*HH1b(7,6,8,plext.plext)*F^{-3*sinx^2*cosx*m83^{-1}} - 4/9^*HH1b(7,6,8,plext.plext)*F^{-3*sinx^3*sqrt3*m83^{-1}} + 16/9^*HH1b(7,6,8,plext.plext)*F^{-3*sinx^4*cosx*m83^{-1}} \\
& + 16/27^*HH1b(7,6,8,plext.plext)*F^{-3*sinx^5*sqrt3*m83^{-1}} + 1/9^*HH1b(7,6,8,1,plext.plext)*F^{-3*sinx*sqrt3} - 4/9^*HH1b(7,6,8,1,plext.plext)*F^{-3*sinx^2*cosx} - 8/27^*HH1b(7,6,8,1,plext.plext)*F^{-3*sinx^3*sqrt3} + \\
& 8/9^*HH1b(7,6,8,1,plext.plext)*F^{-3*sinx^4*cosx} + 8/27^*HH1b(7,6,8,1,plext.plext)*F^{-3*sinx^5*sqrt3}) \\
& + mud*mkp2^2 * (+ 4433/1244160^*F^{-3*sinx*sqrt3*pi^4*m83^{-1}} + 2419/3732480^*F^{-3*sinx*sqrt3*pi^2*m83^{-1}} + 7/27^*F^{-3*sinx*sqrt3*pi^6}
\end{aligned}$$

$$\begin{aligned}
& 2^*L8r^*m83^{-1} + 4/27^*F^{-3}^*sinx^*sqrt3^*pi^{-2}^*L7r^*m83^{-1} + 10/27^*F^{-3}^*sinx^*sqrt3^*pi^{-2}^*L6r^*m83^{-1} - 17/162^*F^{-3}^*sinx^*sqrt3^*pi^{-2}^*L5r^*m83^{-1} \\
& - 5/27^*F^{-3}^*sinx^*sqrt3^*pi^{-2}^*L4r^*m83^{-1} + 1/108^*F^{-3}^*sinx^*sqrt3^*pi^{-2}^*L3r^*m83^{-1} - 2560/27^*F^{-3}^*sinx^*sqrt3^*L5r^*L8r^*m83^{-1} - 2560/9^*F^{-3}^*sinx^*sqrt3^*L5r^*L7r^*m83^{-1} - 256/9^*F^{-3}^*sinx^*sqrt3^*L4r^*L8r^*m83^{-1} - \\
& 256/3^*F^{-3}^*sinx^*sqrt3^*L4r^*L7r^*m83^{-1} - 256/9^*F^{-3}^*sinx^*sqrt3^*CC33^*m83^{-1} - 128/9^*F^{-3}^*sinx^*sqrt3^*CC32^*m83^{-1} - 128/9^*F^{-3}^*sinx^*sqrt3^*CC31^*m83^{-1} - 128/9^*F^{-3}^*sinx^*sqrt3^*CC20^*m83^{-1} - 64/3^*F^{-3}^*sinx^*sqrt3^*CC19^*m83^{-1} - 128/9^*F^{-3}^*sinx^*sqrt3^*CC18^*m83^{-1} - 128/27^*F^{-3}^*sinx^*sqrt3^*CC17^*m83^{-1} - 128/27^*F^{-3}^*sinx^*sqrt3^*CC14^*m83^{-1} + 1253/20736^*F^{-3}^*sinx^2^*cosx^*pi^{-4}^*m83^{-1} + 293/31104^*F^{-3}^*sinx^2^*cosx^*pi^{-2}^*m83^{-1} + 80/9^*F^{-3}^*sinx^2^*cosx^*pi^{-2}^*L8r^*m83^{-1} + 32/9^*F^{-3}^*sinx^2^*cosx^*pi^{-2}^*L7r^*m83^{-1} + 80/9^*F^{-3}^*sinx^2^*cosx^*pi^{-2}^*L6r^*m83^{-1} - 104/27^*F^{-3}^*sinx^2^*cosx^*pi^{-2}^*L5r^*m83^{-1} - 40/9^*F^{-3}^*sinx^2^*cosx^*pi^{-2}^*L4r^*m83^{-1} - 1/9^*F^{-3}^*sinx^2^*cosx^*pi^{-2}^*L3r^*m83^{-1} - 2048/9^*F^{-3}^*sinx^2^*cosx^*L5r^*L8r^*m83^{-1} - 2048/3^*F^{-3}^*sinx^2^*cosx^*L4r^*L8r^*m83^{-1} - 2048^*F^{-3}^*sinx^2^*cosx^*L4r^*L7r^*m83^{-1} - 2048/3^*F^{-3}^*sinx^2^*cosx^*CC33^*m83^{-1} - 1024/3^*F^{-3}^*sinx^2^*cosx^*CC32^*m83^{-1} - 1024/3^*F^{-3}^*sinx^2^*cosx^*CC31^*m83^{-1} - 1024/3^*F^{-3}^*sinx^2^*cosx^*CC20^*m83^{-1} - 512^*F^{-3}^*sinx^2^*cosx^*CC19^*m83^{-1} + 512/3^*F^{-3}^*sinx^2^*cosx^*CC18^*m83^{-1} + 512/9^*F^{-3}^*sinx^2^*cosx^*CC17^*m83^{-1} + 512/9^*F^{-3}^*sinx^2^*cosx^*CC14^*m83^{-1} - 125/62208^*C^*F^{-3}^*sinx^*sqrt3^*pi^{-4}^*m83^{-1} + 14/27^*C^*F^{-3}^*sinx^*sqrt3^*pi^{-2}^*L8r^*m83^{-1} + 20/9^*C^*F^{-3}^*sinx^*sqrt3^*pi^{-2}^*L7r^*m83^{-1} + 2/9^*C^*F^{-3}^*sinx^*sqrt3^*pi^{-2}^*L5r^*m83^{-1} + 64/9^*C^*F^{-3}^*sinx^2^*cosx^*pi^{-2}^*L8r^*m83^{-1} + 64/3^*C^*F^{-3}^*sinx^2^*cosx^*pi^{-2}^*L7r^*m83^{-1} + 23/34560^*C^2^*F^{-3}^*sinx^*sqrt3^*pi^{-4}^*m83^{-1} - 11/8640^*C^*ln(3)^*F^{-3}^*sinx^*sqrt3^*pi^{-4}^*m83^{-1} + 23/2160^*C^*ln(3)^*F^{-3}^*sinx^2^*cosx^*pi^{-4}^*m83^{-1} - 1/108^*C^*ln(3)^*F^{-3}^*sinx^4^*cosx^*pi^{-4}^*m83^{-1} - 5/2304^*C^*ln(4)^*F^{-3}^*cosx^*pi^{-4}^*m83^{-1} + 5/864^*C^*ln(4)^*F^{-3}^*sinx^*sqrt3^*pi^{-4}^*m83^{-1} - 1/144^*C^*ln(4)^*F^{-3}^*sinx^2^*cosx^*pi^{-4}^*m83^{-1} - 1/144^*C^*ln(4)^*F^{-3}^*sinx^3^*sqrt3^*pi^{-4}^*m83^{-1} + 5/2304^*C^*ln(6)^*F^{-3}^*cosx^*pi^{-4}^*m83^{-1} - 289/34560^*C^*ln(6)^*F^{-3}^*sinx^*sqrt3^*pi^{-4}^*m83^{-1} - 1/144^*C^*ln(6)^*F^{-3}^*sinx^2^*cosx^*pi^{-4}^*m83^{-1} + 1/144^*C^*ln(6)^*F^{-3}^*sinx^3^*sqrt3^*pi^{-4}^*m83^{-1} - 23/12960^*C^*ln(8)^*F^{-3}^*sinx^*sqrt3^*pi^{-4}^*m83^{-1} - 43/2160^*C^*ln(8)^*F^{-3}^*sinx^2^*cosx^*pi^{-4}^*m83^{-1} + 1/108^*C^*ln(8)^*F^{-3}^*sinx^4^*cosx^*pi^{-4}^*m83^{-1} + 1/5184^*ln(3)^*F^{-3}^*sinx^*sqrt3^*pi^{-4}^*m83^{-1} + 4/81^*ln(3)^*F^{-3}^*sinx^*sqrt3^*pi^{-2}^*L8r^*m83^{-1} - 4/27^*ln(3)^*F^{-3}^*sinx^*sqrt3^*pi^{-2}^*L7r^*m83^{-1} + 8/27^*ln(3)^*F^{-3}^*sinx^*sqrt3^*pi^{-2}^*L6r^*m83^{-1} + 4/81^*ln(3)^*F^{-3}^*sinx^*sqrt3^*pi^{-2}^*L5r^*m83^{-1} - 1/9^*ln(3)^*F^{-3}^*sinx^*sqrt3^*pi^{-2}^*L4r^*m83^{-1} + 1/1296^*ln(3)^*F^{-3}^*sinx^2^*cosx^*pi^{-4}^*m83^{-1} + 176/27^*ln(3)^*F^{-3}^*sinx^2^*cosx^*pi^{-2}^*L8r^*m83^{-1} + 128/9^*ln(3)^*F^{-3}^*sinx^2^*cosx^*pi^{-2}^*L7r^*m83^{-1} - 44/27^*ln(3)^*F^{-3}^*sinx^2^*cosx^*pi^{-2}^*L5r^*m83^{-1} + 1/162^*ln(3)^*F^{-3}^*sinx^4^*cosx^*pi^{-4}^*m83^{-1} + 544/27^*ln(3)^*F^{-3}^*sinx^4^*cosx^*pi^{-2}^*L8r^*m83^{-1} + 128/3^*ln(3)^*F^{-3}^*sinx^4^*cosx^*pi^{-2}^*L7r^*m83^{-1} + 64/9^*ln(3)^*F^{-3}^*sinx^4^*cosx^*pi^{-2}^*L6r^*m83^{-1} - 56/27^*ln(3)^*F^{-3}^*sinx^4^*cosx^*pi^{-2}^*L5r^*m83^{-1} - 8/3^*ln(3)^*F^{-3}^*sinx^4^*cosx^*pi^{-2}^*L4r^*m83^{-1} - 256/27^*ln(3)^*F^{-3}^*sinx^6^*cosx^*pi^{-2}^*L8r^*m83^{-1} - 256/9^*ln(3)^*F^{-3}^*sinx^6^*cosx^*pi^{-2}^*L7r^*m83^{-1} - 256/9^*ln(3)^*F^{-3}^*sinx^6^*cosx^*pi^{-2}^*L6r^*m83^{-1} - 256/9^*ln(3)^*F^{-3}^*sinx^6^*cosx^*pi^{-2}^*L5r^*m83^{-1} - 256/9^*ln(3)^*F^{-3}^*sinx^6^*cosx^*pi^{-2}^*L4r^*m83^{-1} - 256/9^*ln(3)^*F^{-3}^*sinx^6^*cosx^*pi^{-2}^*L3r^*m83^{-1} - 256/9^*ln(3)^*F^{-3}^*sinx^6^*cosx^*pi^{-2}^*L2r^*m83^{-1} - 256/9^*ln(3)^*F^{-3}^*sinx^6^*cosx^*pi^{-2}^*L1r^*m83^{-1} - 256/9^*ln(3)^*F^{-3}^*sinx^6^*cosx^*pi^{-2}^*L0r^*m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 2^*L7r^*m83^{-1} - 19/124416^*\ln(3)^2^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-4^*}m83^{-1} - 47/20736^*\ln(3)^2^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-4^*}m83^{-1} - 7/1296^*\ln(3)^2^*F^{-3^*}\sin x^4^*\cos x^*\pi^{-4^*}m83^{-1} \\
& - 17/1296^*\ln(3)^2^*F^{-3^*}\sin x^6^*\cos x^*\pi^{-4^*}m83^{-1} + 1/81^*\ln(3)^2^*F^{-3^*}\sin x^8^*\cos x^*\pi^{-4^*}m83^{-1} - 1/3456^*\ln(3)^*\ln(4)^*F^{-3^*}\cos x^*\pi^{-4^*}m38^{-1} \\
& - 7/10368^*\ln(3)^*\ln(4)^*F^{-3^*}\cos x^*\pi^{-4^*}m83^{-1} + 1/1728^*\ln(3)^*\ln(4)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-4^*}m38^{-1} + 287/207360^*\ln(3)^*\ln(4)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-4^*}m83^{-1} \\
& + 43/17280^*\ln(3)^*\ln(4)^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-4^*}m83^{-1} + 1/1728^*\ln(3)^*\ln(4)^*F^{-3^*}\sin x^3^*\sqrt{3^*}\pi^{-4^*}m38^{-1} + 263/51840^*\ln(3)^*\ln(4)^*F^{-3^*}\sin x^3^*\sqrt{3^*}\pi^{-4^*}m83^{-1} \\
& - 1/324^*\ln(3)^*\ln(4)^*F^{-3^*}\sin x^5^*\sqrt{3^*}\pi^{-4^*}m38^{-1} - 11/1296^*\ln(3)^*\ln(4)^*F^{-3^*}\sin x^5^*\sqrt{3^*}\pi^{-4^*}m83^{-1} + 1/108^*\ln(3)^*\ln(4)^*F^{-3^*}\sin x^6^*\cos x^*\pi^{-4^*}m83^{-1} \\
& + 1/324^*\ln(3)^*\ln(4)^*F^{-3^*}\sin x^7^*\sqrt{3^*}\pi^{-4^*}m38^{-1} - 4^*m38^{-1} + 1/648^*\ln(3)^*\ln(4)^*F^{-3^*}\sin x^7^*\sqrt{3^*}\pi^{-4^*}m83^{-1} + 1/3456^*\ln(3)^*\ln(6)^*F^{-3^*}\cos x^*\pi^{-4^*}m38^{-1} \\
& + 7/10368^*\ln(3)^*\ln(6)^*F^{-3^*}\cos x^*\pi^{-4^*}m83^{-1} - 1/1728^*\ln(3)^*\ln(6)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-4^*}m38^{-1} - 91/69120^*\ln(3)^*\ln(6)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-4^*}m83^{-1} \\
& + 43/17280^*\ln(3)^*\ln(6)^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-4^*}m83^{-1} - 1/1728^*\ln(3)^*\ln(6)^*F^{-3^*}\sin x^3^*\sqrt{3^*}\pi^{-4^*}m38^{-1} - 263/51840^*\ln(3)^*\ln(6)^*F^{-3^*}\sin x^3^*\sqrt{3^*}\pi^{-4^*}m83^{-1} \\
& + 1/324^*\ln(3)^*\ln(6)^*F^{-3^*}\sin x^5^*\sqrt{3^*}\pi^{-4^*}m38^{-1} + 4^*m38^{-1} + 11/1296^*\ln(3)^*\ln(6)^*F^{-3^*}\sin x^5^*\sqrt{3^*}\pi^{-4^*}m83^{-1} + 1/108^*\ln(3)^*\ln(6)^*F^{-3^*}\sin x^6^*\cos x^*\pi^{-4^*}m83^{-1} \\
& - 1/324^*\ln(3)^*\ln(6)^*F^{-3^*}\sin x^7^*\sqrt{3^*}\pi^{-4^*}m38^{-1} - 1/648^*\ln(3)^*\ln(6)^*F^{-3^*}\sin x^7^*\sqrt{3^*}\pi^{-4^*}m83^{-1} + 7/62208^*\ln(3)^*\ln(8)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-4^*}m83^{-1} \\
& - 1/1152^*\ln(3)^*\ln(8)^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-4^*}m83^{-1} - 1/81^*\ln(3)^*\ln(8)^*F^{-3^*}\sin x^4^*\cos x^*\pi^{-4^*}m83^{-1} + 25/648^*\ln(3)^*\ln(8)^*F^{-3^*}\sin x^6^*\cos x^*\pi^{-4^*}m83^{-1} \\
& - 2/81^*\ln(3)^*\ln(8)^*F^{-3^*}\sin x^8^*\cos x^*\pi^{-4^*}m83^{-1} - 5/3456^*\ln(4)^*F^{-3^*}\cos x^*\pi^{-4^*}m83^{-1} + 5/27^*\ln(4)^*F^{-3^*}\cos x^*\pi^{-2^*}L8r^*m38^{-1} - 49/54^*\ln(4)^*F^{-3^*}\cos x^*\pi^{-2^*}L8r^*m83^{-1} \\
& + 1/3^*\ln(4)^*F^{-3^*}\cos x^*\pi^{-2^*}L7r^*m38^{-1} - 19/9^*\ln(4)^*F^{-3^*}\cos x^*\pi^{-2^*}L7r^*m83^{-1} - 1/9^*\ln(4)^*F^{-3^*}\cos x^*\pi^{-2^*}L6r^*m38^{-1} + 5/9^*\ln(4)^*F^{-3^*}\cos x^*\pi^{-2^*}L6r^*m83^{-1} \\
& - 1/27^*\ln(4)^*F^{-3^*}\cos x^*\pi^{-2^*}L5r^*m38^{-1} + 1/27^*\ln(4)^*F^{-3^*}\cos x^*\pi^{-2^*}L5r^*m83^{-1} + 35/108^*\ln(4)^*F^{-3^*}\cos x^*\pi^{-2^*}L5r^*m83^{-1} + 1/18^*\ln(4)^*F^{-3^*}\cos x^*\pi^{-2^*}L4r^*m38^{-1} \\
& - 7/36^*\ln(4)^*F^{-3^*}\cos x^*\pi^{-2^*}L4r^*m83^{-1} - 1/24^*\ln(4)^*F^{-3^*}\cos x^*\pi^{-2^*}L3r^*m83^{-1} + 5/1536^*\ln(4)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-4^*}m83^{-1} - 10/27^*\ln(4)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-2^*}L8r^*m38^{-1} + \ln(4)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-2^*}L8r^*m83^{-1} \\
& - 2/3^*\ln(4)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-2^*}L7r^*m38^{-1} + 61/18^*\ln(4)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-2^*}L7r^*m83^{-1} + 2/9^*\ln(4)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-2^*}L6r^*m38^{-1} - 20/9^*\ln(4)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-2^*}L6r^*m83^{-1} + 2/27^*\ln(4)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-2^*}L5r^*m38^{-1} - 59/108^*\ln(4)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-2^*}L5r^*m83^{-1} - 1/9^*\ln(4)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-2^*}L4r^*m38^{-1} + 29/36^*\ln(4)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-2^*}L4r^*m83^{-1} + 1/9^*\ln(4)^*F^{-3^*}\sin x^*\sqrt{3^*}\pi^{-2^*}L3r^*m83^{-1} + 1/1152^*\ln(4)^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-4^*}m83^{-1} + 136/9^*\ln(4)^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-2^*}L8r^*m83^{-1} + 24^*\ln(4)^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-2^*}L7r^*m83^{-1} + 16/3^*\ln(4)^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-2^*}L6r^*m83^{-1} - 26/9^*\ln(4)^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-2^*}L5r^*m83^{-1} - 2^*\ln(4)^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-2^*}L4r^*m83^{-1} - 1/3^*\ln(4)^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-2^*}L3r^*m83^{-1} - 89/10368^*\ln(4)^*F^{-3^*}\sin x^3^*\sqrt{3^*}\pi^{-4^*}m83^{-1} + 56/27^*\ln(4)^*F^{-3^*}\sin x^3^*\sqrt{3^*}\pi^{-2^*}L8r^*m38^{-1} - 64/27^*\ln(4)^*F^{-3^*}\sin x^3^*\sqrt{3^*}\pi^{-2^*}L8r^*m83^{-1} + 64/9^*\ln(4)^*F^{-3^*}\sin x^3^*\sqrt{3^*}\pi^{-2^*}L7r^*m38^{-1} - 104/9^*\ln(4)^*F^{-3^*}\sin x^3^*\sqrt{3^*}\pi^{-2^*}L7r^*m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 2^*L7r^*m83^{\wedge}-1 - 8/9*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L6r^*m38^{\wedge}-1 + 40/9*\ln(4)*F^{\wedge}- \\
& 3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L6r^*m83^{\wedge}-1 + 4/27*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}- \\
& 2*L5r^*m38^{\wedge}-1 - 2/27*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L5r^*m83^{\wedge}-1 + 4/9*\ln(4)*F^{\wedge}- \\
& 3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L4r^*m38^{\wedge}-1 - 14/9*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}- \\
& 2*L4r^*m83^{\wedge}-1 - 1/3*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L3r^*m83^{\wedge}-1 + 1/324*\ln(4)*F^{\wedge}- \\
& 3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 - 64/27*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}-2*L8r^*m38^{\wedge}- \\
& 1 + 32/9*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 - 64/9*\ln(4)*F^{\wedge}- \\
& 3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}-2*L7r^*m38^{\wedge}-1 + 32/3*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}- \\
& 2*L7r^*m83^{\wedge}-1 + 1/27648*\ln(4)^{\wedge}2*F^{\wedge}-3*\cos x^*\pi^{\wedge}-4*m38^{\wedge}-1 - 65/55296*\ln(4)^{\wedge}2*F^{\wedge}- \\
& 3*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 - 5/27648*\ln(4)^{\wedge}2*F^{\wedge}-3*\sin x^*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 + \\
& 1823/829440*\ln(4)^{\wedge}2*F^{\wedge}-3*\sin x^*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 + 1/576*\ln(4)^{\wedge}2*F^{\wedge}- \\
& 3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-4*m38^{\wedge}-1 - 7/3456*\ln(4)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-4*m83^{\wedge}- \\
& 1 - 5/1728*\ln(4)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 + 5/3456*\ln(4)^{\wedge}2*F^{\wedge}- \\
& 3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 - 1/144*\ln(4)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*\pi^{\wedge}-4*m38^{\wedge}- \\
& 1 + 1/96*\ln(4)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 + 1/432*\ln(4)^{\wedge}2*F^{\wedge}- \\
& 3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 - 1/288*\ln(4)^{\wedge}2*F^{\wedge}-3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}- \\
& 1 + 1/768*\ln(4)*\ln(6)*F^{\wedge}-3*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 + 1/4608*\ln(4)*\ln(6)*F^{\wedge}- \\
& 3*\sin x^*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 - 569/414720*\ln(4)*\ln(6)*F^{\wedge}-3*\sin x^*\sqrt{3}*\pi^{\wedge}- \\
& 4*m83^{\wedge}-1 - 1/288*\ln(4)*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-4*m38^{\wedge}-1 + 13/1728*\ln(4)*\ln(6)*F^{\wedge}- \\
& 3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 + 1/72*\ln(4)*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*\pi^{\wedge}- \\
& 4*m38^{\wedge}-1 - 1/48*\ln(4)*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 + 1/10368*\ln(4)*\ln(8)*F^{\wedge}- \\
& 3*\cos x^*\pi^{\wedge}-4*m38^{\wedge}-1 - 19/20736*\ln(4)*\ln(8)*F^{\wedge}-3*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 - \\
& 1/5184*\ln(4)*\ln(8)*F^{\wedge}-3*\sin x^*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 + 101/34560*\ln(4)*\ln(8)*F^{\wedge}- \\
& 3*\sin x^*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 + 59/5760*\ln(4)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}- \\
& 4*m83^{\wedge}-1 - 5/1728*\ln(4)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 - 263/51840*\ln(4)*\ln(8)*F^{\wedge}- \\
& 3*\sin x^{\wedge}3*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 + 1/162*\ln(4)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}- \\
& 4*m38^{\wedge}-1 + 5/1296*\ln(4)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}5*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 - 1/108*\ln(4)*\ln(8)*F^{\wedge}- \\
& 3*\sin x^{\wedge}6*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 - 1/324*\ln(4)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}7*\sqrt{3}*\pi^{\wedge}- \\
& 4*m38^{\wedge}-1 - 1/648*\ln(4)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}7*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 + 5/3456*\ln(6)*F^{\wedge}- \\
& 3*\cos x^*\pi^{\wedge}-4*m83^{\wedge}-1 - 5/27*\ln(6)*F^{\wedge}-3*\cos x^*\pi^{\wedge}-2*L8r^*m38^{\wedge}-1 + 49/54*\ln(6)*F^{\wedge}- \\
& 3*\cos x^*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 - 1/3*\ln(6)*F^{\wedge}-3*\cos x^*\pi^{\wedge}-2*L7r^*m38^{\wedge}-1 + \\
& 19/9*\ln(6)*F^{\wedge}-3*\cos x^*\pi^{\wedge}-2*L7r^*m83^{\wedge}-1 + 1/9*\ln(6)*F^{\wedge}-3*\cos x^*\pi^{\wedge}- \\
& 2*L6r^*m38^{\wedge}-1 - 5/9*\ln(6)*F^{\wedge}-3*\cos x^*\pi^{\wedge}-2*L6r^*m83^{\wedge}-1 + 1/27*\ln(6)*F^{\wedge}- \\
& 3*\cos x^*\pi^{\wedge}-2*L5r^*m38^{\wedge}-1 - 35/108*\ln(6)*F^{\wedge}-3*\cos x^*\pi^{\wedge}-2*L5r^*m83^{\wedge}-1 \\
& - 1/18*\ln(6)*F^{\wedge}-3*\cos x^*\pi^{\wedge}-2*L4r^*m38^{\wedge}-1 + 7/36*\ln(6)*F^{\wedge}-3*\cos x^*\pi^{\wedge}- \\
& 2*L4r^*m83^{\wedge}-1 + 1/24*\ln(6)*F^{\wedge}-3*\cos x^*\pi^{\wedge}-2*L3r^*m83^{\wedge}-1 - 35/13824*\ln(6)*F^{\wedge}- \\
& 3*\sin x^*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 + 10/27*\ln(6)*F^{\wedge}-3*\sin x^*\sqrt{3}*\pi^{\wedge}-2*L8r^*m38^{\wedge}- \\
& 1 + 19/27*\ln(6)*F^{\wedge}-3*\sin x^*\sqrt{3}*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 + 2/3*\ln(6)*F^{\wedge}- \\
& 3*\sin x^*\sqrt{3}*\pi^{\wedge}-2*L7r^*m38^{\wedge}-1 + 5/18*\ln(6)*F^{\wedge}-3*\sin x^*\sqrt{3}*\pi^{\wedge}-2*L7r^*m83^{\wedge}- \\
& 1 - 2/9*\ln(6)*F^{\wedge}-3*\sin x^*\sqrt{3}*\pi^{\wedge}-2*L6r^*m38^{\wedge}-1 + 8/3*\ln(6)*F^{\wedge}-3*\sin x^*\sqrt{3}*\pi^{\wedge}- \\
& 2*L6r^*m83^{\wedge}-1 - 2/27*\ln(6)*F^{\wedge}-3*\sin x^*\sqrt{3}*\pi^{\wedge}-2*L5r^*m38^{\wedge}-1 + 19/36*\ln(6)*F^{\wedge}- \\
& 3*\sin x^*\sqrt{3}*\pi^{\wedge}-2*L5r^*m83^{\wedge}-1 + 1/9*\ln(6)*F^{\wedge}-3*\sin x^*\sqrt{3}*\pi^{\wedge}-2*L4r^*m38^{\wedge}- \\
& 1 - 35/36*\ln(6)*F^{\wedge}-3*\sin x^*\sqrt{3}*\pi^{\wedge}-2*L4r^*m83^{\wedge}-1 - 1/18*\ln(6)*F^{\wedge}- \\
& 3*\sin x^*\sqrt{3}*\pi^{\wedge}-2*L3r^*m83^{\wedge}-1 + 1/1152*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}- \\
& 4*m83^{\wedge}-1 + 136/9*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 + 24*\ln(6)*F^{\wedge}- \\
& 3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-2*L7r^*m83^{\wedge}-1 + 16/3*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*\pi^{\wedge}-
\end{aligned}$$

$$\begin{aligned}
& 2^*L6r^*m83^{\wedge}-1 - 26/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-2*L5r^*m83^{\wedge}-1 - 2*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-2*L4r^*m83^{\wedge}-1 - 1/3*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-2*L3r^*m83^{\wedge}- \\
& 1 + 89/10368*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 - 56/27*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L8r^*m38^{\wedge}-1 + 64/27*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}- \\
& 2*L8r^*m83^{\wedge}-1 - 64/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L7r^*m38^{\wedge}-1 + 104/9*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L7r^*m83^{\wedge}-1 + 8/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}- \\
& 2*L6r^*m38^{\wedge}-1 - 40/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L6r^*m83^{\wedge}-1 - 4/27*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L5r^*m38^{\wedge}-1 + 2/27*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}- \\
& 2*L5r^*m83^{\wedge}-1 - 4/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L4r^*m38^{\wedge}-1 + 14/9*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L4r^*m83^{\wedge}-1 + 1/3*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}- \\
& 2*L3r^*m83^{\wedge}-1 - 1/324*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}5*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 + 64/27*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}5*\sqrt{3}*\pi^{\wedge}-2*L8r^*m38^{\wedge}-1 - 32/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}5*\sqrt{3}*\pi^{\wedge}- \\
& 2*L8r^*m83^{\wedge}-1 + 64/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}5*\sqrt{3}*\pi^{\wedge}-2*L7r^*m38^{\wedge}-1 - 32/3*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}5*\sqrt{3}*\pi^{\wedge}-2*L7r^*m83^{\wedge}-1 - 1/27648*\ln(6)^{\wedge}2*F^{\wedge}-3*\cosx*\pi^{\wedge}-4*m38^{\wedge}- \\
& 1 - 7/55296*\ln(6)^{\wedge}2*F^{\wedge}-3*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 - 1/27648*\ln(6)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 - 1321/829440*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}- \\
& 4*m83^{\wedge}-1 + 1/576*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-4*m38^{\wedge}-1 - 7/3456*\ln(6)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 + 5/1728*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}- \\
& 4*m38^{\wedge}-1 - 5/3456*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 - 1/144*\ln(6)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^{\wedge}4*\cosx*\pi^{\wedge}-4*m38^{\wedge}-1 + 1/96*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}4*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 \\
& - 1/432*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}5*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 + 1/288*\ln(6)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^{\wedge}5*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 - 1/10368*\ln(6)*\ln(8)*F^{\wedge}-3*\cosx*\pi^{\wedge}-4*m38^{\wedge}-1 \\
& + 19/20736*\ln(6)*\ln(8)*F^{\wedge}-3*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 + 1/5184*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 - 269/103680*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}- \\
& 4*m83^{\wedge}-1 + 59/5760*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 + 5/1728*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 + 263/51840*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}- \\
& 4*m83^{\wedge}-1 - 1/162*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}5*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 - 5/1296*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}5*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 - 1/108*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}6*\cosx*\pi^{\wedge}- \\
& 4*m83^{\wedge}-1 + 1/324*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}7*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 + 1/648*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}7*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 - 1/3888*\ln(8)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}- \\
& 1 + 8/9*\ln(8)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 + 16/9*\ln(8)*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L7r^*m83^{\wedge}-1 - 2/81*\ln(8)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L5r^*m83^{\wedge}- \\
& 1 + 1/216*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 + 16*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}- \\
& 2*L8r^*m83^{\wedge}-1 + 224/9*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-2*L7r^*m83^{\wedge}-1 + \\
& 64/9*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-2*L6r^*m83^{\wedge}-1 - 20/9*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}- \\
& 2*L5r^*m83^{\wedge}-1 - 8/3*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-2*L4r^*m83^{\wedge}-1 - 1/162*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}4*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 - 544/27*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx*\pi^{\wedge}-2*L8r^*m83^{\wedge}- \\
& 1 - 128/3*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx*\pi^{\wedge}-2*L7r^*m83^{\wedge}-1 - 64/9*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}4*\cosx*\pi^{\wedge}-2*L6r^*m83^{\wedge}-1 + 56/27*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx*\pi^{\wedge}- \\
& 2*L5r^*m83^{\wedge}-1 + 8/3*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx*\pi^{\wedge}-2*L4r^*m83^{\wedge}-1 + 256/27*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}6*\cosx*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 + 256/9*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}6*\cosx*\pi^{\wedge}- \\
& 2*L7r^*m83^{\wedge}-1 - 47/124416*\ln(8)^{\wedge}2*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 - 143/20736*\ln(8)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 + 23/1296*\ln(8)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}4*\cosx*\pi^{\wedge}- \\
& 4*m83^{\wedge}-1 - 11/432*\ln(8)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}6*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 + 1/81*\ln(8)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^{\wedge}8*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 + 1/1536/(mass(3))*\ln(3)^{\wedge}2*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}- \\
& 4 - 1/1080/(mass(3))*\ln(3)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-4 - 1/540/(mass(3))*\ln(3)^{\wedge}2*F^{\wedge}-
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^4*\cos x*\pi^{\wedge-4} - 47/122880/(\text{mass}(4))*\ln(4)^{\wedge 2}*F^{\wedge-3}*\cos x*\pi^{\wedge-4} + \\
& 23/92160/(\text{mass}(4))*\ln(4)^{\wedge 2}*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4} - 7/7680/(\text{mass}(4))*\ln(4)^{\wedge 2}*F^{\wedge-3} \\
& 3^*\sin x^2*\cos x*\pi^{\wedge-4} - 1/1536/(\text{mass}(4))*\ln(4)^{\wedge 2}*F^{\wedge-3}*\sin x^3*\sqrt{3}*\pi^{\wedge-4} - \\
& 17/122880/(\text{mass}(5))*\ln(4)^{\wedge 2}*F^{\wedge-3}*\cos x*\pi^{\wedge-4} + 103/552960/(\text{mass}(5))*\ln(4)^{\wedge 2}*F^{\wedge-3} \\
& 3^*\sin x*\sqrt{3}*\pi^{\wedge-4} - 41/23040/(\text{mass}(5))*\ln(4)^{\wedge 2}*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-4} - \\
& 1/1536/(\text{mass}(5))*\ln(4)^{\wedge 2}*F^{\wedge-3}*\sin x^3*\sqrt{3}*\pi^{\wedge-4} - 253/122880/(\text{mass}(6))*\ln(6)^{\wedge 2}*F^{\wedge-3} \\
& 3^*\cos x*\pi^{\wedge-4} + 5/36864/(\text{mass}(6))*\ln(6)^{\wedge 2}*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4} - 7/7680/(\text{mass}(6))*\ln(6)^{\wedge 2}*F^{\wedge-3} \\
& 3^*\sin x^2*\cos x*\pi^{\wedge-4} + 1/1536/(\text{mass}(6))*\ln(6)^{\wedge 2}*F^{\wedge-3}*\sin x^3*\sqrt{3}*\pi^{\wedge-4} - \\
& 223/122880/(\text{mass}(7))*\ln(6)^{\wedge 2}*F^{\wedge-3}*\cos x*\pi^{\wedge-4} + 1/13824/(\text{mass}(7))*\ln(6)^{\wedge 2}*F^{\wedge-3} \\
& 3^*\sin x*\sqrt{3}*\pi^{\wedge-4} - 41/23040/(\text{mass}(7))*\ln(6)^{\wedge 2}*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-4} + \\
& 1/1536/(\text{mass}(7))*\ln(6)^{\wedge 2}*F^{\wedge-3}*\sin x^3*\sqrt{3}*\pi^{\wedge-4} - 1/768/(\text{mass}(8))*\ln(8)^{\wedge 2}*F^{\wedge-3} \\
& 3^*\cos x*\pi^{\wedge-4} - 77/207360/(\text{mass}(8))*\ln(8)^{\wedge 2}*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4} - \\
& 1/360/(\text{mass}(8))*\ln(8)^{\wedge 2}*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-4} + 1/540/(\text{mass}(8))*\ln(8)^{\wedge 2}*F^{\wedge-3} \\
& 3^*\sin x^4*\cos x*\pi^{\wedge-4}) \\
& + \text{mud}*\text{mkp}2^{\wedge 3} * (- 5/5184*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} - 5/31104*F^{\wedge-3} \\
& 3^*\sin x*\sqrt{3}*\pi^{\wedge-2}*m83^{\wedge-2} - 8192/27*F^{\wedge-3}*\sin x*\sqrt{3}*L8r^{\wedge 2}*m83^{\wedge-2} - \\
& 57344/27*F^{\wedge-3}*\sin x*\sqrt{3}*L7r*L8r*m83^{\wedge-2} - 32768/9*F^{\wedge-3}*\sin x*\sqrt{3}*L7r^{\wedge 2}*m83^{\wedge-2} \\
& 2 + 8192/27*F^{\wedge-3}*\sin x*\sqrt{3}*L6r*L8r*m83^{\wedge-2} + 8192/9*F^{\wedge-3}*\sin x*\sqrt{3}*L6r*L7r*m83^{\wedge-2} \\
& 2 - 4096/81*F^{\wedge-3}*\sin x*\sqrt{3}*L5r*L8r*m83^{\wedge-2} - 4096/27*F^{\wedge-3}*\sin x*\sqrt{3}*L5r*L7r*m83^{\wedge-2} \\
& 2 + 2048/27*F^{\wedge-3}*\sin x*\sqrt{3}*L4r*L8r*m83^{\wedge-2} + 2048/9*F^{\wedge-3}*\sin x*\sqrt{3}*L4r*L7r*m83^{\wedge-2} \\
& 2 + 65536/9*F^{\wedge-3}*\sin x^2*\cos x*L8r^{\wedge 2}*m83^{\wedge-2} + 1114112/27*F^{\wedge-3}*\sin x^2*\cos x*L7r*L8r*m83^{\wedge-2} \\
& 2 + 524288/9*F^{\wedge-3}*\sin x^2*\cos x*L7r^{\wedge 2}*m83^{\wedge-2} + 65536/27*F^{\wedge-3}*\sin x^2*\cos x*L6r*L8r*m83^{\wedge-2} \\
& 2 + 65536/9*F^{\wedge-3}*\sin x^2*\cos x*L6r*L7r*m83^{\wedge-2} - 32768/81*F^{\wedge-3}*\sin x^2*\cos x*L5r*L8r*m83^{\wedge-2} \\
& 2 - 32768/27*F^{\wedge-3}*\sin x^2*\cos x*L5r*L7r*m83^{\wedge-2} - 32768/27*F^{\wedge-3}*\sin x^2*\cos x*L4r*L8r*m83^{\wedge-2} \\
& 2 - 32768/9*F^{\wedge-3}*\sin x^2*\cos x*L4r*L7r*m83^{\wedge-2} - 262144/27*F^{\wedge-3}*\sin x^4*\cos x*L8r^{\wedge 2}*m83^{\wedge-2} \\
& 2 - 524288/9*F^{\wedge-3}*\sin x^4*\cos x*L7r*L8r*m83^{\wedge-2} - 262144/3*F^{\wedge-3}*\sin x^4*\cos x*L7r^{\wedge 2}*m83^{\wedge-2} \\
& 2 - 16/27*C*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-2}*L8r*m83^{\wedge-2} - 16/9*C*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-2} \\
& 2*L7r*m83^{\wedge-2} - 1/3888*C*\ln(3)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} - 2/243*C*\ln(3)*F^{\wedge-3} \\
& 3^*\sin x^2*\cos x*\pi^{\wedge-4}*m83^{\wedge-2} - 1/1728*C*\ln(4)*F^{\wedge-3}*\cos x*\pi^{\wedge-4}*m83^{\wedge-2} \\
& - 13/5184*C*\ln(4)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} + 1/1728*C*\ln(6)*F^{\wedge-3} \\
& 3^*\cos x*\pi^{\wedge-4}*m83^{\wedge-2} + 19/5184*C*\ln(6)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} \\
& + 1/972*C*\ln(8)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} + 2/243*C*\ln(8)*F^{\wedge-3} \\
& 3^*\sin x^2*\cos x*\pi^{\wedge-4}*m83^{\wedge-2} + 80/243*\ln(3)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-2}*L8r*m83^{\wedge-2} \\
& 2 + 80/81*\ln(3)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-2}*L7r*m83^{\wedge-2} - 16/81*\ln(3)*F^{\wedge-3} \\
& 3^*\sin x*\sqrt{3}*\pi^{\wedge-2}*L6r*m83^{\wedge-2} + 16/243*\ln(3)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-2} \\
& 2*L5r*m83^{\wedge-2} - 128/27*\ln(3)*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-2}*L8r*m83^{\wedge-2} - 1408/81*\ln(3)*F^{\wedge-3} \\
& 3^*\sin x^2*\cos x*\pi^{\wedge-2}*L7r*m83^{\wedge-2} + 128/81*\ln(3)*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-2} \\
& 2*L6r*m83^{\wedge-2} + 64/81*\ln(3)*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-2}*L4r*m83^{\wedge-2} - 4352/243*\ln(3)*F^{\wedge-3} \\
& 3^*\sin x^4*\cos x*\pi^{\wedge-2}*L8r*m83^{\wedge-2} - 4096/81*\ln(3)*F^{\wedge-3}*\sin x^4*\cos x*\pi^{\wedge-2} \\
& 2*L7r*m83^{\wedge-2} - 256/81*\ln(3)*F^{\wedge-3}*\sin x^4*\cos x*\pi^{\wedge-2}*L6r*m83^{\wedge-2} + \\
& 128/243*\ln(3)*F^{\wedge-3}*\sin x^4*\cos x*\pi^{\wedge-2}*L5r*m83^{\wedge-2} + 128/81*\ln(3)*F^{\wedge-3} \\
& 3^*\sin x^4*\cos x*\pi^{\wedge-2}*L4r*m83^{\wedge-2} + 2048/81*\ln(3)*F^{\wedge-3}*\sin x^6*\cos x*\pi^{\wedge-2} \\
& 2*L8r*m83^{\wedge-2} + 2048/27*\ln(3)*F^{\wedge-3}*\sin x^6*\cos x*\pi^{\wedge-2}*L7r*m83^{\wedge-2} + \\
& 1/23328*\ln(3)^{\wedge 2}*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} + 5/2916*\ln(3)^{\wedge 2}*F^{\wedge-3} \\
& 3^*\sin x^2*\cos x*\pi^{\wedge-4}*m83^{\wedge-2} + 1/243*\ln(3)^{\wedge 2}*F^{\wedge-3}*\sin x^4*\cos x*\pi^{\wedge-4}*m83^{\wedge-2}
\end{aligned}$$

$$\begin{aligned}
& 2 + 8/729*\ln(3)^2*F^{-3}*\sin^6*\cos^*\pi^{-4}*m83^{-2} - 4/243*\ln(3)^2*F^{-3}*\sin^8*\cos^*\pi^{-4}*m83^{-2} + 7/15552*\ln(3)*\ln(4)*F^{-3}*\cos^*\pi^{-4}*m83^{-2} - \\
& 37/23328*\ln(3)*\ln(4)*F^{-3}*\sin^*\sqrt{3}*\pi^{-4}*m83^{-2} + 11/1944*\ln(3)*\ln(4)*F^{-3}*\sin^2*\cos^*\pi^{-4}*m83^{-2} + 1/1944*\ln(3)*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 7/486*\ln(3)*\ln(4)*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-2} + 37/1458*\ln(3)*\ln(4)*F^{-3}*\sin^5*\sqrt{3}*\pi^{-4}*m83^{-2} - \\
& 2/81*\ln(3)*\ln(4)*F^{-3}*\sin^6*\cos^*\pi^{-4}*m83^{-2} - 2/81*\ln(3)*\ln(4)*F^{-3}*\sin^7*\sqrt{3}*\pi^{-4}*m83^{-2} - 7/15552*\ln(3)*\ln(6)*F^{-3}*\cos^*\pi^{-4}*m83^{-2} + 19/23328*\ln(3)*\ln(6)*F^{-3}*\sin^*\sqrt{3}*\pi^{-4}*m83^{-2} + \\
& 11/1944*\ln(3)*\ln(6)*F^{-3}*\sin^2*\cos^*\pi^{-4}*m83^{-2} - 1/1944*\ln(3)*\ln(6)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 7/486*\ln(3)*\ln(6)*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-2} - 37/1458*\ln(3)*\ln(6)*F^{-3}*\sin^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 2/81*\ln(3)*\ln(6)*F^{-3}*\sin^6*\cos^*\pi^{-4}*m83^{-2} + 2/81*\ln(3)*\ln(6)*F^{-3}*\sin^7*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/11664*\ln(3)*\ln(8)*F^{-3}*\sin^*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/486*\ln(3)*\ln(8)*F^{-3}*\sin^2*\cos^*\pi^{-4}*m83^{-2} + 4/243*\ln(3)*\ln(8)*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-2} - 40/729*\ln(3)*\ln(8)*F^{-3}*\sin^6*\cos^*\pi^{-4}*m83^{-2} + 8/243*\ln(3)*\ln(8)*F^{-3}*\sin^8*\cos^*\pi^{-4}*m83^{-2} + 32/81*\ln(4)*F^{-3}*\cos^*\pi^{-2}*L8r*m83^{-2} + 32/27*\ln(4)*F^{-3}*\cos^*\pi^{-2}*L7r*m83^{-2} - 4/9*\ln(4)*F^{-3}*\cos^*\pi^{-2}*L6r*m83^{-2} + 4/27*\ln(4)*F^{-3}*\cos^*\pi^{-2}*L5r*m83^{-2} + 500/243*\ln(4)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 332/81*\ln(4)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 56/27*\ln(4)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} - 28/81*\ln(4)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} - 2/27*\ln(4)*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} - 320/27*\ln(4)*F^{-3}*\sin^2*\cos^*\pi^{-2}*L8r*m83^{-2} - 896/27*\ln(4)*F^{-3}*\sin^2*\cos^*\pi^{-2}*L7r*m83^{-2} - 64/27*\ln(4)*F^{-3}*\sin^2*\cos^*\pi^{-2}*L6r*m83^{-2} + 32/81*\ln(4)*F^{-3}*\sin^2*\cos^*\pi^{-2}*L5r*m83^{-2} + 32/27*\ln(4)*F^{-3}*\sin^2*\cos^*\pi^{-2}*L4r*m83^{-2} - 4928/243*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 4736/81*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} + 32/81*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} + 32/27*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} + 512/27*\ln(4)*F^{-3}*\sin^4*\cos^*\pi^{-2}*L7r*m83^{-2} + 512/27*\ln(4)*F^{-3}*\sin^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 512/9*\ln(4)*F^{-3}*\sin^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 1/20736*\ln(4)^2*F^{-3}*\cos^*\pi^{-4}*m83^{-2} + 59/124416*\ln(4)^2*F^{-3}*\sin^*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/162*\ln(4)^2*F^{-3}*\sin^2*\cos^*\pi^{-4}*m83^{-2} + 17/972*\ln(4)^2*F^{-3}*\sin^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/54*\ln(4)^2*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-2} - 1/54*\ln(4)^2*F^{-3}*\sin^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/864*\ln(4)*\ln(6)*F^{-3}*\cos^*\pi^{-4}*m83^{-2} - 5/2304*\ln(4)*\ln(6)*F^{-3}*\sin^*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/162*\ln(4)*\ln(6)*F^{-3}*\sin^2*\cos^*\pi^{-4}*m83^{-2} - 2/27*\ln(4)*\ln(6)*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-2} - 1/1296*\ln(4)*\ln(8)*F^{-3}*\cos^*\pi^{-4}*m83^{-2} - 31/15552*\ln(4)*\ln(8)*F^{-3}*\sin^*\sqrt{3}*\pi^{-4}*m83^{-2} + 7/648*\ln(4)*\ln(8)*F^{-3}*\sin^2*\cos^*\pi^{-4}*m83^{-2} + 157/5832*\ln(4)*\ln(8)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 19/486*\ln(4)*\ln(8)*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-2} - 73/1458*\ln(4)*\ln(8)*F^{-3}*\sin^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 2/81*\ln(4)*\ln(8)*F^{-3}*\sin^6*\cos^*\pi^{-4}*m83^{-2} + 2/81*\ln(4)*\ln(8)*F^{-3}*\sin^7*\sqrt{3}*\pi^{-4}*m83^{-2} - 32/81*\ln(6)*F^{-3}*\cos^*\pi^{-2}*L8r*m83^{-2} - 32/27*\ln(6)*F^{-3}*\cos^*\pi^{-2}*L7r*m83^{-2} + 4/9*\ln(6)*F^{-3}*\cos^*\pi^{-2}*L6r*m83^{-2} - 4/27*\ln(6)*F^{-3}*\cos^*\pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2^*L5r^*m83^{\wedge-2} - 140/243*\ln(6)^*F^{\wedge-3}*sinx*\sqrt{3}*\pi^{\wedge-2}*L8r^*m83^{\wedge-2} + \\
& 76/81*\ln(6)^*F^{\wedge-3}*sinx*\sqrt{3}*\pi^{\wedge-2}*L7r^*m83^{\wedge-2} - 8/3*\ln(6)^*F^{\wedge-3}*sinx*\sqrt{3}*\pi^{\wedge-2} \\
& 2^*L6r^*m83^{\wedge-2} + 4/9*\ln(6)^*F^{\wedge-3}*sinx*\sqrt{3}*\pi^{\wedge-2}*L5r^*m83^{\wedge-2} - 2/27*\ln(6)^*F^{\wedge-3} \\
& 3^*sinx*\sqrt{3}*\pi^{\wedge-2}*L4r^*m83^{\wedge-2} - 320/27*\ln(6)^*F^{\wedge-3}*sinx^{\wedge 2}*cosx*\pi^{\wedge-2} \\
& 2^*L8r^*m83^{\wedge-2} - 896/27*\ln(6)^*F^{\wedge-3}*sinx^{\wedge 2}*cosx*\pi^{\wedge-2}*L7r^*m83^{\wedge-2} - 64/27*\ln(6)^*F^{\wedge-3} \\
& 3^*sinx^{\wedge 2}*cosx*\pi^{\wedge-2}*L6r^*m83^{\wedge-2} + 32/81*\ln(6)^*F^{\wedge-3}*sinx^{\wedge 2}*cosx*\pi^{\wedge-2} \\
& 2^*L5r^*m83^{\wedge-2} + 32/27*\ln(6)^*F^{\wedge-3}*sinx^{\wedge 2}*cosx*\pi^{\wedge-2}*L4r^*m83^{\wedge-2} + \\
& 4928/243*\ln(6)^*F^{\wedge-3}*sinx^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2}*L8r^*m83^{\wedge-2} + 4736/81*\ln(6)^*F^{\wedge-3} \\
& 3^*sinx^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2}*L7r^*m83^{\wedge-2} + 64/27*\ln(6)^*F^{\wedge-3}*sinx^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2} \\
& 2^*L6r^*m83^{\wedge-2} - 32/81*\ln(6)^*F^{\wedge-3}*sinx^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2}*L5r^*m83^{\wedge-2} - 32/27*\ln(6)^*F^{\wedge-3} \\
& 3^*sinx^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2}*L4r^*m83^{\wedge-2} + 512/27*\ln(6)^*F^{\wedge-3}*sinx^{\wedge 4}*cosx*\pi^{\wedge-2} \\
& 2^*L8r^*m83^{\wedge-2} + 512/9*\ln(6)^*F^{\wedge-3}*sinx^{\wedge 4}*cosx*\pi^{\wedge-2}*L7r^*m83^{\wedge-2} - 512/27*\ln(6)^*F^{\wedge-3} \\
& 3^*sinx^{\wedge 5}*\sqrt{3}*\pi^{\wedge-2}*L8r^*m83^{\wedge-2} - 512/9*\ln(6)^*F^{\wedge-3}*sinx^{\wedge 5}*\sqrt{3}*\pi^{\wedge-2} \\
& 2^*L7r^*m83^{\wedge-2} + 23/20736*\ln(6)^{\wedge 2}*F^{\wedge-3}*cosx*\pi^{\wedge-4}*m83^{\wedge-2} - 5/124416*\ln(6)^{\wedge 2}*F^{\wedge-3} \\
& 3^*sinx*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} - 1/162*\ln(6)^{\wedge 2}*F^{\wedge-3}*sinx^{\wedge 2}*cosx*\pi^{\wedge-4}*m83^{\wedge-2} \\
& - 17/972*\ln(6)^{\wedge 2}*F^{\wedge-3}*sinx^{\wedge 3}*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} + 1/54*\ln(6)^{\wedge 2}*F^{\wedge-3} \\
& 3^*sinx^{\wedge 4}*cosx*\pi^{\wedge-4}*m83^{\wedge-2} + 1/54*\ln(6)^{\wedge 2}*F^{\wedge-3}*sinx^{\wedge 5}*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} \\
& + 1/1296*\ln(6)*\ln(8)^*F^{\wedge-3}*cosx*\pi^{\wedge-4}*m83^{\wedge-2} + 17/15552*\ln(6)*\ln(8)^*F^{\wedge-3} \\
& 3^*sinx*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} + 7/648*\ln(6)*\ln(8)^*F^{\wedge-3}*sinx^{\wedge 2}*cosx*\pi^{\wedge-4} \\
& 4^*m83^{\wedge-2} - 157/5832*\ln(6)*\ln(8)^*F^{\wedge-3}*sinx^{\wedge 3}*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} - 19/486*\ln(6)*\ln(8)^*F^{\wedge-3} \\
& 3^*sinx^{\wedge 4}*cosx*\pi^{\wedge-4}*m83^{\wedge-2} + 73/1458*\ln(6)*\ln(8)^*F^{\wedge-3}*sinx^{\wedge 5}*\sqrt{3}*\pi^{\wedge-4} \\
& 4^*m83^{\wedge-2} + 2/81*\ln(6)*\ln(8)^*F^{\wedge-3}*sinx^{\wedge 6}*cosx*\pi^{\wedge-4}*m83^{\wedge-2} - 2/81*\ln(6)*\ln(8)^*F^{\wedge-3} \\
& 3^*sinx^{\wedge 7}*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} + 80/243*\ln(8)^*F^{\wedge-3}*sinx*\sqrt{3}*\pi^{\wedge-2}*L8r^*m83^{\wedge-2} \\
& 2 + 112/81*\ln(8)^*F^{\wedge-3}*sinx*\sqrt{3}*\pi^{\wedge-2}*L7r^*m83^{\wedge-2} - 16/81*\ln(8)^*F^{\wedge-3} \\
& 3^*sinx*\sqrt{3}*\pi^{\wedge-2}*L6r^*m83^{\wedge-2} - 8/81*\ln(8)^*F^{\wedge-3}*sinx*\sqrt{3}*\pi^{\wedge-2}*L4r^*m83^{\wedge-2} \\
& 2 - 3712/243*\ln(8)^*F^{\wedge-3}*sinx^{\wedge 2}*cosx*\pi^{\wedge-2}*L8r^*m83^{\wedge-2} - 3200/81*\ln(8)^*F^{\wedge-3} \\
& 3^*sinx^{\wedge 2}*cosx*\pi^{\wedge-2}*L7r^*m83^{\wedge-2} - 128/27*\ln(8)^*F^{\wedge-3}*sinx^{\wedge 2}*cosx*\pi^{\wedge-2} \\
& 2^*L6r^*m83^{\wedge-2} + 128/243*\ln(8)^*F^{\wedge-3}*sinx^{\wedge 2}*cosx*\pi^{\wedge-2}*L5r^*m83^{\wedge-2} + \\
& 64/81*\ln(8)^*F^{\wedge-3}*sinx^{\wedge 2}*cosx*\pi^{\wedge-2}*L4r^*m83^{\wedge-2} + 10496/243*\ln(8)^*F^{\wedge-3} \\
& 3^*sinx^{\wedge 4}*cosx*\pi^{\wedge-2}*L8r^*m83^{\wedge-2} + 10240/81*\ln(8)^*F^{\wedge-3}*sinx^{\wedge 4}*cosx*\pi^{\wedge-2} \\
& 2^*L7r^*m83^{\wedge-2} + 256/81*\ln(8)^*F^{\wedge-3}*sinx^{\wedge 4}*cosx*\pi^{\wedge-2}*L6r^*m83^{\wedge-2} - \\
& 128/243*\ln(8)^*F^{\wedge-3}*sinx^{\wedge 4}*cosx*\pi^{\wedge-2}*L5r^*m83^{\wedge-2} - 128/81*\ln(8)^*F^{\wedge-3} \\
& 3^*sinx^{\wedge 4}*cosx*\pi^{\wedge-2}*L4r^*m83^{\wedge-2} - 2048/81*\ln(8)^*F^{\wedge-3}*sinx^{\wedge 6}*cosx*\pi^{\wedge-2} \\
& 2^*L8r^*m83^{\wedge-2} - 2048/27*\ln(8)^*F^{\wedge-3}*sinx^{\wedge 6}*cosx*\pi^{\wedge-2}*L7r^*m83^{\wedge-2} + \\
& 1/23328*\ln(8)^{\wedge 2}*F^{\wedge-3}*sinx*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} + 29/2916*\ln(8)^{\wedge 2}*F^{\wedge-3} \\
& 3^*sinx^{\wedge 2}*cosx*\pi^{\wedge-4}*m83^{\wedge-2} - 1/27*\ln(8)^{\wedge 2}*F^{\wedge-3}*sinx^{\wedge 4}*cosx*\pi^{\wedge-4}*m83^{\wedge-2} \\
& + 32/729*\ln(8)^{\wedge 2}*F^{\wedge-3}*sinx^{\wedge 6}*cosx*\pi^{\wedge-4}*m83^{\wedge-2} - 4/243*\ln(8)^{\wedge 2}*F^{\wedge-3} \\
& 3^*sinx^{\wedge 8}*cosx*\pi^{\wedge-4}*m83^{\wedge-2} - 11/58320/(mass(3))*\ln(3)^{\wedge 2}*F^{\wedge-3}*sinx*\sqrt{3}*\pi^{\wedge-4} \\
& 4^*m83^{\wedge-1} + 91/14580/(mass(3))*\ln(3)^{\wedge 2}*F^{\wedge-3}*sinx^{\wedge 2}*cosx*\pi^{\wedge-4}*m83^{\wedge-1} + \\
& 8/729/(mass(3))*\ln(3)^{\wedge 2}*F^{\wedge-3}*sinx^{\wedge 4}*cosx*\pi^{\wedge-4}*m83^{\wedge-1} - 95/55296/(mass(4))*\ln(4)^{\wedge 2}*F^{\wedge-3} \\
& 3^*cosx*\pi^{\wedge-4}*m83^{\wedge-1} + 373/82944/(mass(4))*\ln(4)^{\wedge 2}*F^{\wedge-3}*sinx*\sqrt{3}*\pi^{\wedge-4} \\
& 4^*m83^{\wedge-1} + 61/5184/(mass(4))*\ln(4)^{\wedge 2}*F^{\wedge-3}*sinx^{\wedge 2}*cosx*\pi^{\wedge-4}*m83^{\wedge-1} - \\
& 23/5184/(mass(4))*\ln(4)^{\wedge 2}*F^{\wedge-3}*sinx^{\wedge 3}*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} - 107/55296/(mass(5))*\ln(4)^{\wedge 2}*F^{\wedge-3} \\
& 3^*cosx*\pi^{\wedge-4}*m83^{\wedge-1} + 391/82944/(mass(5))*\ln(4)^{\wedge 2}*F^{\wedge-3}*sinx*\sqrt{3}*\pi^{\wedge-4} \\
& 4^*m83^{\wedge-1} + 61/5184/(mass(5))*\ln(4)^{\wedge 2}*F^{\wedge-3}*sinx^{\wedge 2}*cosx*\pi^{\wedge-4}*m83^{\wedge-1} - \\
& 23/5184/(mass(5))*\ln(4)^{\wedge 2}*F^{\wedge-3}*sinx^{\wedge 3}*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} + 95/55296/(mass(6))*\ln(6)^{\wedge 2}*F^{\wedge-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\cos x^*\pi^{-4}*m83^{-1} - 413/138240/(mass(6))*\ln(6)^2*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4}*m83^{-1} + 61/5184/(mass(6))*\ln(6)^2*F^{-3}*\sin x^2*\cos x^*\pi^{-4}*m83^{-1} + \\
& 23/5184/(mass(6))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-4}*m83^{-1} + 107/55296/(mass(7))*\ln(6)^2*F^{-3}*\cos x^*\pi^{-4}*m83^{-1} - 503/138240/(mass(7))*\ln(6)^2*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4}*m83^{-1} + \\
& 61/5184/(mass(7))*\ln(6)^2*F^{-3}*\sin x^2*\cos x^*\pi^{-4}*m83^{-1} + 23/5184/(mass(7))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-4}*m83^{-1} + 169/116640/(mass(8))*\ln(8)^2*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4}*m83^{-1} + 329/14580/(mass(8))*\ln(8)^2*F^{-3}*\sin x^2*\cos x^*\pi^{-4}*m83^{-1} - 8/729/(mass(8))*\ln(8)^2*F^{-3}*\sin x^4*\cos x^*\pi^{-4}*m83^{-1}) \\
& + mud^*mkp2^4 * (- 1/5832/(mass(3))*\ln(3)^2*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4}*m83^{-2} + 5/1458/(mass(3))*\ln(3)^2*F^{-3}*\sin x^2*\cos x^*\pi^{-4}*m83^{-2} + 1/3456/(mass(4))*\ln(4)^2*F^{-3}*\cos x^*\pi^{-4}*m83^{-2} + 13/10368/(mass(4))*\ln(4)^2*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4}*m83^{-2} - 1/3456/(mass(6))*\ln(6)^2*F^{-3}*\cos x^*\pi^{-4}*m83^{-2} - 1/384/(mass(6))*\ln(6)^2*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4}*m83^{-2} - 1/2916/(mass(8))*\ln(8)^2*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4}*m83^{-2} - 5/1458/(mass(8))*\ln(8)^2*F^{-3}*\sin x^2*\cos x^*\pi^{-4}*m83^{-2}) \\
& + mud^*mpp2 * (+ 5/16384*F^{-3}*\cos x^*\pi^{-4} - 1/73728*F^{-3}*\cos x^*\pi^{-2} + 5/4*F^{-3}*\cos x^*\pi^{-2}*L6r - 5/8*F^{-3}*\cos x^*\pi^{-2}*L4r - 1/108*F^{-3}*\cos x^*\pi^{-2}*L3r - 1/36*F^{-3}*\cos x^*\pi^{-2}*L2r + 16*F^{-3}*\cos x^*L4r*L5r + 16*F^{-3}*\cos x^*L4r^2 + 16*F^{-3}*\cos x^*CC16 - 8*F^{-3}*\cos x^*CC15 + 11/276480*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4} + 67/3317760*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2} - 1/36*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L8r - 1/4*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L6r + 1/72*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L5r + 1/8*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L4r - 5/864*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L3r - 1/72*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L2r - 1/36*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L1r - 16/9*F^{-3}*\sin x^*\sqrt{3}^*L5r^2 - 16/3*F^{-3}*\sin x^*\sqrt{3}^*L4r*L5r + 16/3*F^{-3}*\sin x^*\sqrt{3}^*CC18 + 32/9*F^{-3}*\sin x^*\sqrt{3}^*CC17 + 8/3*F^{-3}*\sin x^*\sqrt{3}^*CC15 + 32/9*F^{-3}*\sin x^*\sqrt{3}^*CC14 + 89/69120*F^{-3}*\sin x^2*\cos x^*\pi^{-4} + 7/12960*F^{-3}*\sin x^2*\cos x^*\pi^{-2} - 4/9*F^{-3}*\sin x^2*\cos x^*\pi^{-2}*L8r + 2/9*F^{-3}*\sin x^2*\cos x^*\pi^{-2}*L5r + 1/18*F^{-3}*\sin x^2*\cos x^*\pi^{-2}*L3r - 256/3*F^{-3}*\sin x^2*\cos x^*CC18 - 256/9*F^{-3}*\sin x^2*\cos x^*CC17 - 256/9*F^{-3}*\sin x^2*\cos x^*CC14 - 125/248832*C*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4} - 1/18*C*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L8r + 1/18*C*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L5r - 125/15552*C*F^{-3}*\sin x^2*\cos x^*\pi^{-4} - 8/9*C*F^{-3}*\sin x^2*\cos x^*\pi^{-2}*L8r + 8/9*C*F^{-3}*\sin x^2*\cos x^*\pi^{-2}*L5r + 23/138240*C^2*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4} + 23/8640*C^2*F^{-3}*\sin x^2*\cos x^*\pi^{-4} - 1/2304*C*\ln(1)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4} - 1/1440*C*\ln(1)*F^{-3}*\sin x^2*\cos x^*\pi^{-4} - 1/7680*C*\ln(3)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4} - 1/320*C*\ln(3)*F^{-3}*\sin x^2*\cos x^*\pi^{-4} - 1/480*C*\ln(3)*F^{-3}*\sin x^4*\cos x^*\pi^{-4} + 31/92160*C*\ln(4)*F^{-3}*\cos x^*\pi^{-4} - 31/276480*C*\ln(4)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4} - 11/5760*C*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-4} - 1/8640*C*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-4} - 31/92160*C*\ln(6)*F^{-3}*\cos x^*\pi^{-4} + 73/276480*C*\ln(6)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4} - 11/5760*C*\ln(6)*F^{-3}*\sin x^2*\cos x^*\pi^{-4} + 1/8640*C*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-4} - 1/2560*C*\ln(8)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4} - 1/192*C*\ln(8)*F^{-3}*\sin x^2*\cos x^*\pi^{-4} + 1/480*C*\ln(8)*F^{-3}*\sin x^4*\cos x^*\pi^{-4} - 1/1024*\ln(1)*F^{-3}*\cos x^*\pi^{-4} + \ln(1)*F^{-3}*\cos x^*\pi^{-2}*L6r - 3/4*\ln(1)*F^{-3}*\cos x^*\pi^{-2}*L4r - 1/3072*\ln(1)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4} - 1/24*\ln(1)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L5r - 1/3072*\ln(1)*F^{-3}*\sin x^2*\cos x^*\pi^{-4} + 1/3*\ln(1)*F^{-3}*\sin x^2*\cos x^*\pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 2*L6r + 1/36*\ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r - 1/4*\ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - \\
& 2*L4r - 23/138240*\ln(1)*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 67/69120*\ln(1)*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + \\
& 1/17280*\ln(1)*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 11/184320*\ln(1)*\ln(4)*F^{-3}*\cos x*\pi^{-4} + \\
& 47/276480*\ln(1)*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 7/23040*\ln(1)*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/34560*\ln(1)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - \\
& 1/2304*\ln(1)*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 11/184320*\ln(1)*\ln(6)*F^{-3}*\cos x*\pi^{-4} - 107/276480*\ln(1)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - \\
& 7/23040*\ln(1)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/34560*\ln(1)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + \\
& 1/2304*\ln(1)*\ln(8)*F^{-3}*\cos x*\pi^{-4} + 23/138240*\ln(1)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 4 + 19/23040*\ln(1)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/17280*\ln(1)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} - \\
& 7/55296*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 11/216*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r - 1/18*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r + 1/12*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r + 1/6*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L2r + 1/6*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L1r - 1/1152*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 4/27*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r - 1/3456*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 2/27*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r - 71/552960*\ln(3)*\ln(4)*F^{-3}*\cos x*\pi^{-4} - 23/331776*\ln(3)*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 43/138240*\ln(3)*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 11/138240*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/51840*\ln(3)*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 71/552960*\ln(3)*\ln(6)*F^{-3}*\cos x*\pi^{-4} + 217/1658880*\ln(3)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 43/138240*\ln(3)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 11/138240*\ln(3)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/51840*\ln(3)*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} - 7/24576*\ln(4)*F^{-3}*\cos x*\pi^{-4} + 1/24*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L8r + 1/24*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L6r - 5/288*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L5r - 1/32*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L4r - 1/32*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L3r + 7/73728*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 1/72*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r - 1/72*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r + 5/864*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r + 1/96*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r + 1/96*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r + 3/2048*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 2/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r - 1/6*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r + 7/72*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r + 1/8*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r + 1/6*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r - 1/18432*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/18*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r + 1/216*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r - 1/24*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r - 3/40960*\ln(4)^2*F^{-3}*\cos x*\pi^{-4} - 1/10240*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 47/69120*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/27648*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/4608*\ln(4)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 1/4608*\ln(4)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 13/138240*\ln(4)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 1/17280*\ln(4)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/2304*\ln(4)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 49/552960*\ln(4)*\ln(8)*F^{-3}*\cos x*\pi^{-4} + 137/1658880*\ln(4)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 17/138240*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 43/414720*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/51840*\ln(4)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 1/24576*\ln(6)*F^{-3}*\cos x*\pi^{-4} - 1/24*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L8r + 5/24*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L6r + 23/288*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L5r - 5/32*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L4r + 1/32*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L3r + 47/73728*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 1/72*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r - 17/72*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r - 11/864*\ln(6)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L5r} + 17/96*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r} + 1/96*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L3r} + 3/2048*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} - 2/9*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L8r} - 1/6*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L6r} + 7/72*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L5r} + 1/8*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L4r} + \\
& 1/6*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L3r} + 1/18432*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 4 - 1/18*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L6r} - 1/216*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*\text{L5r} + 1/24*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r} + 3/40960*\ln(6)^{\wedge 2}*\text{F}^{\wedge-} \\
& 3^*\cos x^*\pi^{\wedge-4} + 73/276480*\ln(6)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} + 47/69120*\ln(6)^{\wedge 2}*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 1/27648*\ln(6)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} - 1/4608*\ln(6)^{\wedge 2}*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} - 1/4608*\ln(6)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} - 109/552960*\ln(6)^*\ln(8)^*F^{\wedge-} \\
& 3^*\cos x^*\pi^{\wedge-4} - 7/331776*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} - 17/138240*\ln(6)^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 43/414720*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} - \\
& 1/51840*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} - 5/9216*\ln(8)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-} \\
& 4 + 1/36*\ln(8)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L5r} - 1/9*\ln(8)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L4r} \\
& + 1/18*\ln(8)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L3r} + 1/18*\ln(8)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L2r} + \\
& 2/9*\ln(8)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L1r} + 1/6144*\ln(8)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} + \\
& 1/216*\ln(8)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L5r} + 1/18*\ln(8)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*\text{L4r} - 1/36*\ln(8)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L3r} - 1/36*\ln(8)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*\text{L2r} - 1/9*\ln(8)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L1r} - 1/3456*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-} \\
& 4 + 4/27*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L5r} + 1/3456*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-} \\
& 4 - 2/27*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L5r} + 5/27*\text{Hb}(1,2,3,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\text{m83}^{\wedge-1} - 40/27*\text{Hb}(1,2,3,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\text{m83}^{\wedge-1} \\
& + 8/9*\text{Hb}(1,2,3,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\text{m83}^{\wedge-1} - 1/3*\text{Hb}(1,2,3,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3} - 10/9*\text{Hb}(1,2,3,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x + 4/9*\text{Hb}(1,2,3,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x - 1/27*\text{Hb}(1,2,8,\text{plext.plext})^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\text{m83}^{\wedge-1} + \\
& 40/27*\text{Hb}(1,2,8,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\text{m83}^{\wedge-1} - 8/9*\text{Hb}(1,2,8,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\text{m83}^{\wedge-1} + 1/9*\text{Hb}(1,2,8,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^*\sqrt{3} + \\
& 10/9*\text{Hb}(1,2,8,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x - 4/9*\text{Hb}(1,2,8,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x - 1/3*\text{Hb}(1,5,6,\text{plext.plext})^*F^{\wedge-3}*\cos x^*\text{m83}^{\wedge-1} + 23/36*\text{Hb}(1,5,6,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\text{m83}^{\wedge-1} + 13/18*\text{Hb}(1,5,6,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\text{m83}^{\wedge-} \\
& 1 + 1/6*\text{Hb}(1,5,6,1,\text{plext.plext})^*F^{\wedge-3}*\cos x + 19/144*\text{Hb}(1,5,6,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3} + 13/36*\text{Hb}(1,5,6,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x - 1/3*\text{Hb}(2,4,7,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\cos x^*\text{m83}^{\wedge-1} + 23/36*\text{Hb}(2,4,7,\text{plext.plext})^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\text{m83}^{\wedge-1} + \\
& 13/18*\text{Hb}(2,4,7,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\text{m83}^{\wedge-1} + 1/6*\text{Hb}(2,4,7,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\cos x + 19/144*\text{Hb}(2,4,7,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^*\sqrt{3} + 13/36*\text{Hb}(2,4,7,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x - 1/18*\text{Hb}(3,1,2,\text{plext.plext})^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\text{m83}^{\wedge-1} + \\
& 1/3*\text{Hb}(3,1,2,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\text{m83}^{\wedge-1} - 2/9*\text{Hb}(3,1,2,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\text{m83}^{\wedge-1} + 1/12*\text{Hb}(3,1,2,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^*\sqrt{3} + \\
& 5/18*\text{Hb}(3,1,2,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x - 1/9*\text{Hb}(3,1,2,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x - 1/486*\text{Hb}(3,3,3,\text{plext.plext})^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\text{m83}^{\wedge-1} + \\
& 52/243*\text{Hb}(3,3,3,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\text{m83}^{\wedge-1} + 280/243*\text{Hb}(3,3,3,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\text{m83}^{\wedge-1} - 256/81*\text{Hb}(3,3,3,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\text{m83}^{\wedge-} \\
& 1 + 512/243*\text{Hb}(3,3,3,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 8}*\cos x^*\text{m83}^{\wedge-1} + 2/27*\text{Hb}(3,3,3,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3} + 8/243*\text{Hb}(3,3,3,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x + 104/81*\text{Hb}(3,3,3,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x - 512/243*\text{Hb}(3,3,3,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x + \\
& 256/243*\text{Hb}(3,3,3,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 8}*\cos x + 5/162*\text{Hb}(3,3,8,\text{plext.plext})^*F^{\wedge-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\sqrt{3}^*m83^{\wedge-1} - 4/81^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*m83^{\wedge-1} - \\
& 248/81^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*m83^{\wedge-1} + 256/27^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 6}*\cos x^*m83^{\wedge-1} - 512/81^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 8}*\cos x^*m83^{\wedge-} \\
& 1 + 32/81^*\text{Hb}(3,3,8,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x - 32/9^*\text{Hb}(3,3,8,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x + 512/81^*\text{Hb}(3,3,8,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x - \\
& 256/81^*\text{Hb}(3,3,8,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 8}*\cos x + 59/216^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\cos x^*m83^{\wedge-1} - 16/81^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{\wedge-3}*\sin x^*\sqrt{3}^*m83^{\wedge-1} + \\
& 35/54^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*m83^{\wedge-1} - 41/81^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*m83^{\wedge-1} - 1/27^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*m83^{\wedge-} \\
& 1 + 5/9^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*m83^{\wedge-1} + 3/8^*\text{Hb}(3,4,5,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\cos x + 65/432^*\text{Hb}(3,4,5,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^*\sqrt{3} + 11/36^*\text{Hb}(3,4,5,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x - 17/54^*\text{Hb}(3,4,5,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3} - 1/54^*\text{Hb}(3,4,5,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x + 5/18^*\text{Hb}(3,4,5,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3} - 59/216^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\cos x^*m83^{\wedge-1} + 41/162^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{\wedge-3}*\sin x^*\sqrt{3}^*m83^{\wedge-1} + \\
& 35/54^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*m83^{\wedge-1} + 41/81^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*m83^{\wedge-1} - 1/27^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*m83^{\wedge-} \\
& 1 - 5/9^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*m83^{\wedge-1} - 3/8^*\text{Hb}(3,6,7,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\cos x + 11/144^*\text{Hb}(3,6,7,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^*\sqrt{3} + 11/36^*\text{Hb}(3,6,7,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x + 17/54^*\text{Hb}(3,6,7,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3} - 1/54^*\text{Hb}(3,6,7,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x - 5/18^*\text{Hb}(3,6,7,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3} - 5/162^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*m83^{\wedge-1} + 4/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*m83^{\wedge-1} \\
& + 248/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*m83^{\wedge-1} - 256/27^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 6}*\cos x^*m83^{\wedge-1} + 512/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 8}*\cos x^*m83^{\wedge-} \\
& 1 - 8/27^*\text{Hb}(3,8,8,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x + 280/81^*\text{Hb}(3,8,8,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x - 512/81^*\text{Hb}(3,8,8,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x + \\
& 256/81^*\text{Hb}(3,8,8,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 8}*\cos x - 1/48^*\text{Hb}(4,2,7,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\cos x^*m83^{\wedge-1} + 1/144^*\text{Hb}(4,2,7,\text{plext.plext})^*F^{\wedge-3}*\sin x^*\sqrt{3}^*m83^{\wedge-1} + \\
& 1/12^*\text{Hb}(4,2,7,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*m83^{\wedge-1} - 1/36^*\text{Hb}(4,2,7,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*m83^{\wedge-1} - 1/96^*\text{Hb}(4,2,7,1,\text{plext.plext})^*F^{\wedge-3}*\cos x + 1/288^*\text{Hb}(4,2,7,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3} + 1/24^*\text{Hb}(4,2,7,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x - 1/72^*\text{Hb}(4,2,7,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3} + 2/27^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{\wedge-3}*\cos x^*m83^{\wedge-1} + 41/162^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*m83^{\wedge-1} + 20/27^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*m83^{\wedge-} \\
& 1 - 10/81^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*m83^{\wedge-1} + 28/27^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*m83^{\wedge-1} - 4/27^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*m83^{\wedge-} \\
& 1 + 1/9^*\text{Hb}(4,5,8,1,\text{plext.plext})^*F^{\wedge-3}*\cos x + 1/12^*\text{Hb}(4,5,8,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3} + 1/27^*\text{Hb}(4,5,8,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x + 2/27^*\text{Hb}(4,5,8,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3} + 14/27^*\text{Hb}(4,5,8,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x - 2/27^*\text{Hb}(4,5,8,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 5}*\sqrt{3} - 1/48^*\text{Hb}(5,1,6,\text{plext.plext})^*F^{\wedge-3}*\cos x^*m83^{\wedge-1} + 1/144^*\text{Hb}(5,1,6,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*m83^{\wedge-1} + 1/12^*\text{Hb}(5,1,6,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*m83^{\wedge-1} \\
& - 1/36^*\text{Hb}(5,1,6,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*m83^{\wedge-1} - 1/96^*\text{Hb}(5,1,6,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\cos x + 1/288^*\text{Hb}(5,1,6,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^*\sqrt{3} + 1/24^*\text{Hb}(5,1,6,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x - 1/72^*\text{Hb}(5,1,6,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3} + 1/48^*\text{Hb}(6,1,5,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\cos x^*m83^{\wedge-1} - 13/144^*\text{Hb}(6,1,5,\text{plext.plext})^*F^{\wedge-3}*\sin x^*\sqrt{3}^*m83^{\wedge-1} + \\
& 1/12^*\text{Hb}(6,1,5,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*m83^{\wedge-1} + 1/36^*\text{Hb}(6,1,5,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*m83^{\wedge-1} - 11/96^*\text{Hb}(6,1,5,1,\text{plext.plext})^*F^{\wedge-3}*\cos x - 7/288^*\text{Hb}(6,1,5,1,\text{plext.plext})^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3} + 1/24^*\text{Hb}(6,1,5,1,\text{plext.plext})^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x + 1/72^*\text{Hb}(6,1,5,1,\text{plext.plext})^*F^{\wedge-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^3*\sqrt{3} - 2/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 11/162*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 20/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& + 10/81*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 28/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 4/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} \\
& - 1/9*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\cos x + 1/12*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 2/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} \\
& + 14/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 2/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} + 1/48*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 13/144*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} \\
& + 1/12*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/36*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 11/96*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\cos x - 7/288*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} \\
& + 1/24*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/72*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/9*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 2/9*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3}*\sin x^2*\cos x \\
& + 1/9*\text{Hb}(8,1,2,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/9*\text{Hb}(8,1,2,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 1/9*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/24*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/6*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^4*\cos x \\
& - 1/9*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - 5/48*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\cos x - 1/36*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/18*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/12*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} \\
& - 1/18*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 1/18*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} + 1/12*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 5/72*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 1/6*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/9*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} \\
& - 1/48*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\cos x + 1/36*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/18*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/12*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/18*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 1/18*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} + 17/486*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 76/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 280/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 256/81*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 32/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 32/27*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 512/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^6*\cos x - 256/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^8*\cos x - 1/3*\text{H21b}(1,5,6,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/24*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/6*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/3*\text{H21b}(2,4,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/24*\text{H21b}(2,4,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/6*\text{H21b}(2,4,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/6*\text{H21b}(3,1,2,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - \text{H21b}(3,1,2,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 2/3*\text{H21b}(3,1,2,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 1/4*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 5/6*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/3*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 3/8*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 1/6*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 1/2*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/3*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/3*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 1/3*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 3/8*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\cos x + 1/16*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 5/12*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/6*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^3*\sqrt{3} + 1/6^*H21b(3,4,5,1,plext.plext)*F^{-3}*\sin x^4*\cos x + \\
& 1/6^*H21b(3,4,5,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} - 3/8^*H21b(3,6,7,plext.plext)*F^{-3}*\cos x*m83^{-1} + 1/3^*H21b(3,6,7,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 1/2^*H21b(3,6,7,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/3^*H21b(3,6,7,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/3^*H21b(3,6,7,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} - \\
& 1 - 1/3^*H21b(3,6,7,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - 3/8^*H21b(3,6,7,1,plext.plext)*F^{-3}*\cos x + 1/16^*H21b(3,6,7,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 5/12^*H21b(3,6,7,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 1/6^*H21b(3,6,7,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + 1/6^*H21b(3,6,7,1,plext.plext)*F^{-3}*\sin x^4*\cos x - 1/6^*H21b(3,6,7,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} - 1/4^*H21b(4,2,7,plext.plext)*F^{-3}*\cos x*m83^{-1} + 1/3^*H21b(4,2,7,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 1/6^*H21b(4,2,7,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/6^*H21b(4,2,7,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/4^*H21b(4,2,7,1,plext.plext)*F^{-3}*\cos x + 1/6^*H21b(4,2,7,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 1/12^*H21b(4,2,7,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 1/12^*H21b(4,2,7,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 1/4^*H21b(5,1,6,plext.plext)*F^{-3}*\cos x*m83^{-1} + 1/3^*H21b(5,1,6,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 1/6^*H21b(5,1,6,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/6^*H21b(5,1,6,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/4^*H21b(5,1,6,1,plext.plext)*F^{-3}*\cos x + 1/6^*H21b(5,1,6,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 1/12^*H21b(5,1,6,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 1/12^*H21b(5,1,6,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + 1/4^*H21b(6,1,5,plext.plext)*F^{-3}*\cos x*m83^{-1} - 1/3^*H21b(6,1,5,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 1/6^*H21b(6,1,5,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/6^*H21b(6,1,5,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/4^*H21b(6,1,5,1,plext.plext)*F^{-3}*\cos x + 1/12^*H21b(6,1,5,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 1/12^*H21b(6,1,5,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + 1/4^*H21b(7,2,4,plext.plext)*F^{-3}*\cos x*m83^{-1} - 1/3^*H21b(7,2,4,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 1/6^*H21b(7,2,4,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/6^*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/4^*H21b(7,2,4,1,plext.plext)*F^{-3}*\cos x + 1/12^*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 1/12^*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + 1/6^*H21b(8,1,2,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 1/3^*H21b(8,1,2,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 2/3^*H21b(8,1,2,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/12^*H21b(8,1,2,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 1/2^*H21b(8,1,2,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 1/3^*H21b(8,1,2,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + 1/8^*H21b(8,4,5,plext.plext)*F^{-3}*\cos x*m83^{-1} - 1/2^*H21b(8,4,5,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 1/2^*H21b(8,4,5,plext.plext)*F^{-3}*\sin x^2*\cos x + 1/6^*H21b(8,4,5,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/6^*H21b(8,4,5,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} - 1/3^*H21b(8,4,5,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 2/3^*H21b(8,4,5,1,plext.plext)*F^{-3}*\cos x - 7/48^*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 1/4^*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 1/3^*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 1/6^*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin x^4*\cos x - 1/6^*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} - 1/8^*H21b(8,6,7,plext.plext)*F^{-3}*\cos x*m83^{-1} + 1/3^*H21b(8,6,7,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 1/6^*H21b(8,6,7,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 2/3^*H21b(8,6,7,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/3^*H21b(8,6,7,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} + 1/3^*H21b(8,6,7,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - 1/8^*H21b(8,6,7,1,plext.plext)*F^{-3}*\cos x + 3/16^*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 1/4^*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 1/3^*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 1/6^*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin x^4*\cos x + 1/6^*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} - 2/27^*H21b(1,2,3,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} +
\end{aligned}$$

$$\begin{aligned}
& 52/27*\text{HH1b}(1,2,3,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} + 5/9*\text{HH1b}(1,2,3,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} + 10/9*\text{HH1b}(1,2,3,1,\text{plext.plext})*F^{-3}*\sin^2*\cos - 28/27*\text{HH1b}(1,2,8,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} - 1/9*\text{HH1b}(1,2,8,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} - 2/3*\text{HH1b}(1,2,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos + 1/3*\text{HH1b}(1,5,6,\text{plext.plext})*F^{-3}*\cos^*m83^{-1} - 7/9*\text{HH1b}(1,5,6,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}^*m83^{-1} + 8/9*\text{HH1b}(1,5,6,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} - 1/6*\text{HH1b}(1,5,6,1,\text{plext.plext})*F^{-3}*\cos - 1/18*\text{HH1b}(1,5,6,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} + 4/9*\text{HH1b}(1,5,6,1,\text{plext.plext})*F^{-3}*\sin^2*\cos - 2/27*\text{HH1b}(2,1,3,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}^*m83^{-1} + 52/27*\text{HH1b}(2,1,3,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} + 5/9*\text{HH1b}(2,1,3,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} + 10/9*\text{HH1b}(2,1,3,1,\text{plext.plext})*F^{-3}*\sin^2*\cos - 28/27*\text{HH1b}(2,1,8,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} - 1/9*\text{HH1b}(2,1,8,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} - 2/3*\text{HH1b}(2,1,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos + 1/3*\text{HH1b}(2,4,7,\text{plext.plext})*F^{-3}*\cos^*m83^{-1} - 7/9*\text{HH1b}(2,4,7,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}^*m83^{-1} + 8/9*\text{HH1b}(2,4,7,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} - 1/6*\text{HH1b}(2,4,7,1,\text{plext.plext})*F^{-3}*\cos - 1/18*\text{HH1b}(2,4,7,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} + 4/9*\text{HH1b}(2,4,7,1,\text{plext.plext})*F^{-3}*\sin^2*\cos - 5/9*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\cos^*m83^{-1} + 10/27*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}^*m83^{-1} - 10/27*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} + 2/9*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}^*m83^{-1} - 8/9*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\sin^4*\cos^*m83^{-1} - 8/27*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}^*m83^{-1} - 3/4*\text{HH1b}(3,4,5,1,\text{plext.plext})*F^{-3}*\cos - 1/12*\text{HH1b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} + 1/9*\text{HH1b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin^2*\cos + 1/27*\text{HH1b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} - 4/9*\text{HH1b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin^4*\cos - 4/27*\text{HH1b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3} + 5/9*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\cos^*m83^{-1} - 5/9*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}^*m83^{-1} - 10/27*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} - 2/9*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}^*m83^{-1} - 8/9*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\sin^4*\cos^*m83^{-1} + 8/27*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}^*m83^{-1} + 3/4*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\cos - 11/36*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} + 1/9*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^2*\cos - 1/27*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} - 4/9*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^4*\cos + 4/27*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3} + 2/3*\text{HH1b}(4,2,7,\text{plext.plext})*F^{-3}*\cos^*m83^{-1} - 2/3*\text{HH1b}(4,2,7,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}^*m83^{-1} - 1/3*\text{HH1b}(4,2,7,1,\text{plext.plext})*F^{-3}*\cos - 1/9*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\cos^*m83^{-1} - 8/27*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}^*m83^{-1} - 22/27*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} + 2/3*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}^*m83^{-1} - 8/9*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin^4*\cos^*m83^{-1} - 1 - 8/27*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}^*m83^{-1} - 1/12*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\cos - 7/36*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} - 1/9*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos + 7/27*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} - 4/9*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^4*\cos - 4/27*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3} + 2/3*\text{HH1b}(5,1,6,\text{plext.plext})*F^{-3}*\cos^*m83^{-1} - 2/3*\text{HH1b}(5,1,6,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}^*m83^{-1} - 1/3*\text{HH1b}(5,1,6,1,\text{plext.plext})*F^{-3}*\cos - 1/9*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\cos^*m83^{-1} - 8/27*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}^*m83^{-1} - 22/27*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} + 2/3*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}^*m83^{-1} - 8/9*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin^4*\cos^*m83^{-1} - 1 - 8/27*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}^*m83^{-1} - 1/12*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\cos - 7/36*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} - 1/9*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos + 7/27*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} - 4/9*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin^4*\cos - 4/27*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^2*\cos x + 7/27*HH1b(5,4,8,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - \\
& 4/9*HH1b(5,4,8,1,plext.plext)*F^{-3}*\sin x^4*\cos x - 4/27*HH1b(5,4,8,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} + \\
& 1/9*HH1b(6,7,8,plext.plext)*F^{-3}*\cos x*m83^{-1} + 5/27*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 22/27*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 2/3*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1 - 8/9*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} + 8/27*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 1/12*HH1b(6,7,8,1,plext.plext)*F^{-3}*\cos x + 1/36*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 1/9*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 7/27*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 4/9*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin x^4*\cos x + 4/27*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} + 1/9*HH1b(7,6,8,plext.plext)*F^{-3}*\cos x*m83^{-1} + 5/27*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 22/27*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 2/3*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1 - 8/9*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} + 8/27*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 1/12*HH1b(7,6,8,1,plext.plext)*F^{-3}*\cos x + 1/36*HH1b(7,6,8,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 1/9*HH1b(7,6,8,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 7/27*HH1b(7,6,8,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 4/9*HH1b(7,6,8,1,plext.plext)*F^{-3}*\sin x^4*\cos x + 4/27*HH1b(7,6,8,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}) \\
& + mud*mpp2*mkp2 * (- 16669/4976640*F^{-3}*\sin x*\sqrt{3}*pi^{-4}*m83^{-1} - 5281/7464960*F^{-3}*\sin x*\sqrt{3}*pi^{-2}*m83^{-1} + 1/27*F^{-3}*\sin x*\sqrt{3}*pi^{-2}*L8r*m83^{-1} - 2/27*F^{-3}*\sin x*\sqrt{3}*pi^{-2}*L7r*m83^{-1} - 5/27*F^{-3}*\sin x*\sqrt{3}*pi^{-2}*L6r*m83^{-1} - 5/162*F^{-3}*\sin x*\sqrt{3}*pi^{-2}*L5r*m83^{-1} + 5/54*F^{-3}*\sin x*\sqrt{3}*pi^{-2}*L4r*m83^{-1} - 11/432*F^{-3}*\sin x*\sqrt{3}*pi^{-2}*L3r*m83^{-1} + 4736/27*F^{-3}*\sin x*\sqrt{3}*L5r*L8r*m83^{-1} + 4736/9*F^{-3}*\sin x*\sqrt{3}*L5r*L7r*m83^{-1} + 128/9*F^{-3}*\sin x*\sqrt{3}*L4r*L8r*m83^{-1} + 128/3*F^{-3}*\sin x*\sqrt{3}*L4r*L7r*m83^{-1} + 128/9*F^{-3}*\sin x*\sqrt{3}*CC33*m83^{-1} + 64/9*F^{-3}*\sin x*\sqrt{3}*CC32*m83^{-1} + 64/9*F^{-3}*\sin x*\sqrt{3}*CC31*m83^{-1} + 64/9*F^{-3}*\sin x*\sqrt{3}*CC20*m83^{-1} + 32/3*F^{-3}*\sin x*\sqrt{3}*CC19*m83^{-1} + 352/9*F^{-3}*\sin x*\sqrt{3}*CC18*m83^{-1} + 352/27*F^{-3}*\sin x*\sqrt{3}*CC17*m83^{-1} + 352/27*F^{-3}*\sin x*\sqrt{3}*CC14*m83^{-1} - 1253/20736*F^{-3}*\sin x^2*\cos x*pi^{-4}*m83^{-1} - 293/31104*F^{-3}*\sin x^2*\cos x*pi^{-2}*m83^{-1} - 80/9*F^{-3}*\sin x^2*\cos x*pi^{-2}*L8r*m83^{-1} - 32/9*F^{-3}*\sin x^2*\cos x*pi^{-2}*L7r*m83^{-1} - 80/9*F^{-3}*\sin x^2*\cos x*pi^{-2}*L6r*m83^{-1} + 104/27*F^{-3}*\sin x^2*\cos x*pi^{-2}*L5r*m83^{-1} + 40/9*F^{-3}*\sin x^2*\cos x*pi^{-2}*L4r*m83^{-1} + 1/9*F^{-3}*\sin x^2*\cos x*pi^{-2}*L3r*m83^{-1} + 2048/9*F^{-3}*\sin x^2*\cos x*L5r*L8r*m83^{-1} + 2048/3*F^{-3}*\sin x^2*\cos x*L5r*L7r*m83^{-1} + 2048/3*F^{-3}*\sin x^2*\cos x*L4r*L8r*m83^{-1} + 2048*F^{-3}*\sin x^2*\cos x*L4r*L7r*m83^{-1} + 2048/3*F^{-3}*\sin x^2*\cos x*CC33*m83^{-1} + 1024/3*F^{-3}*\sin x^2*\cos x*CC32*m83^{-1} + 1024/3*F^{-3}*\sin x^2*\cos x*CC31*m83^{-1} + 1024/3*F^{-3}*\sin x^2*\cos x*CC20*m83^{-1} + 512*F^{-3}*\sin x^2*\cos x*CC19*m83^{-1} - 512/3*F^{-3}*\sin x^2*\cos x*CC18*m83^{-1} - 512/9*F^{-3}*\sin x^2*\cos x*CC17*m83^{-1} - 512/9*F^{-3}*\sin x^2*\cos x*CC14*m83^{-1} + 125/31104*C*F^{-3}*\sin x*\sqrt{3}*pi^{-4}*m83^{-1} - 16/27*C*F^{-3}*\sin x*\sqrt{3}*pi^{-2}*L8r*m83^{-1} - 28/9*C*F^{-3}*\sin x*\sqrt{3}*pi^{-2}*L7r*m83^{-1} - 4/9*C*F^{-3}*\sin x*\sqrt{3}*pi^{-2}*L5r*m83^{-1} - 64/9*C*F^{-3}*\sin x^2*\cos x*pi^{-2}*L8r*m83^{-1} - 64/3*C*F^{-3}*\sin x^2*\cos x*pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2^*L7r^*m83^{-1} - 23/17280^*C^2^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m83^{-1}} + 1/5760^*C^*ln(1)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m83^{-1}} + 3/1280^*C^*ln(3)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m83^{-1}} \\
& - 13/2160^*C^*ln(3)^*F^{-3^*sinx^2^*cosx^*pi^{-4^*m83^{-1}} + 1/3456^*C^*ln(4)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m83^{-1}} + 1/144^*C^*ln(4)^*F^{-3^*sinx^2^*cosx^*pi^{-4^*m83^{-1}} \\
& - 1/432^*C^*ln(4)^*F^{-3^*sinx^3^*sqrt3^*pi^{-4^*m83^{-1}} + 11/2880^*C^*ln(6)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m83^{-1}} + 1/144^*C^*ln(6)^*F^{-3^*sinx^2^*cosx^*pi^{-4^*m83^{-1}} \\
& + 1/432^*C^*ln(6)^*F^{-3^*sinx^3^*sqrt3^*pi^{-4^*m83^{-1}} + 329/103680^*C^*ln(8)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m83^{-1}} + 11/720^*C^*ln(8)^*F^{-3^*sinx^2^*cosx^*pi^{-4^*m83^{-1}} \\
& + 1/2592^*ln(1)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m83^{-1}} + 2/27^*ln(1)^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L8r^*m38^{-1}} + 14/27^*ln(1)^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L8r^*m38^{-1}} \\
& - 4/9^*ln(1)^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L7r^*m38^{-1}} + 4/3^*ln(1)^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L7r^*m38^{-1}} + 2/9^*ln(1)^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L6r^*m38^{-1}} \\
& - 2/9^*ln(1)^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L6r^*m38^{-1}} - 1/9^*ln(1)^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L5r^*m38^{-1}} - 1/9^*ln(1)^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L4r^*m38^{-1}} \\
& + 1/18^*ln(1)^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L4r^*m38^{-1}} - 17/5184^*ln(1)^*F^{-3^*sinx^2^*cosx^*pi^{-4^*m83^{-1}} + 8/9^*ln(1)^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L8r^*m38^{-1}} \\
& + 56/27^*ln(1)^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L8r^*m38^{-1}} + 32/9^*ln(1)^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L7r^*m38^{-1}} + 64/9^*ln(1)^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L7r^*m38^{-1}} \\
& - 8/9^*ln(1)^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L6r^*m38^{-1}} - 8/9^*ln(1)^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L6r^*m38^{-1}} + 4/27^*ln(1)^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L5r^*m38^{-1}} \\
& + 4/27^*ln(1)^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L5r^*m38^{-1}} + 4/9^*ln(1)^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L4r^*m38^{-1}} + 4/9^*ln(1)^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L4r^*m38^{-1}} \\
& + 1/324^*ln(1)^*F^{-3^*sinx^4^*cosx^*pi^{-4^*m83^{-1}} - 64/27^*ln(1)^*F^{-3^*sinx^4^*cosx^*pi^{-2^*L8r^*m38^{-1}} + 32/9^*ln(1)^*F^{-3^*sinx^4^*cosx^*pi^{-2^*L8r^*m38^{-1}} \\
& - 64/9^*ln(1)^*F^{-3^*sinx^4^*cosx^*pi^{-2^*L7r^*m38^{-1}} + 32/3^*ln(1)^*F^{-3^*sinx^4^*cosx^*pi^{-2^*L7r^*m38^{-1}} - 1/2592^*ln(1)^*ln(3)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m38^{-1}} \\
& + 7/7680^*ln(1)^*ln(3)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m38^{-1}} - 91/51840^*ln(1)^*ln(3)^*F^{-3^*sinx^2^*cosx^*pi^{-4^*m83^{-1}} - 1/648^*ln(1)^*ln(3)^*F^{-3^*sinx^4^*cosx^*pi^{-4^*m38^{-1}} \\
& + 11/1296^*ln(1)^*ln(3)^*F^{-3^*sinx^4^*cosx^*pi^{-4^*m38^{-1}} - 5/648^*ln(1)^*ln(3)^*F^{-3^*sinx^6^*cosx^*pi^{-4^*m38^{-1}} + 1/324^*ln(1)^*ln(3)^*F^{-3^*sinx^6^*cosx^*pi^{-4^*m38^{-1}} \\
& + 1/2304^*ln(1)^*ln(4)^*F^{-3^*sinx^4^*cosx^*pi^{-4^*m38^{-1}} - 67/82944^*ln(1)^*ln(4)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m38^{-1}} - 1/576^*ln(1)^*ln(4)^*F^{-3^*sinx^2^*cosx^*pi^{-4^*m38^{-1}} \\
& - 1/3456^*ln(1)^*ln(4)^*F^{-3^*sinx^2^*cosx^*pi^{-4^*m83^{-1}} - 1/576^*ln(1)^*ln(4)^*F^{-3^*sinx^3^*sqrt3^*pi^{-4^*m38^{-1}} + 29/10368^*ln(1)^*ln(4)^*F^{-3^*sinx^3^*sqrt3^*pi^{-4^*m83^{-1}} \\
& + 1/432^*ln(1)^*ln(4)^*F^{-3^*sinx^4^*cosx^*pi^{-4^*m38^{-1}} - 1/288^*ln(1)^*ln(4)^*F^{-3^*sinx^4^*cosx^*pi^{-4^*m83^{-1}} + 1/432^*ln(1)^*ln(4)^*F^{-3^*sinx^5^*sqrt3^*pi^{-4^*m38^{-1}} \\
& - 1/2304^*ln(1)^*ln(6)^*F^{-3^*cosx^*pi^{-4^*m38^{-1}} - 1/27648^*ln(1)^*ln(6)^*F^{-3^*cosx^*pi^{-4^*m83^{-1}} + 1/864^*ln(1)^*ln(6)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m38^{-1}} \\
& + 473/414720^*ln(1)^*ln(6)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m83^{-1}} - 1/576^*ln(1)^*ln(6)^*F^{-3^*sinx^2^*cosx^*pi^{-4^*m38^{-1}} - 1/3456^*ln(1)^*ln(6)^*F^{-3^*sinx^2^*cosx^*pi^{-4^*m83^{-1}} \\
& + 1/576^*ln(1)^*ln(6)^*F^{-3^*sinx^3^*sqrt3^*pi^{-4^*m38^{-1}} - 29/10368^*ln(1)^*ln(6)^*F^{-3^*sinx^3^*sqrt3^*pi^{-4^*m83^{-1}} + 1/432^*ln(1)^*ln(6)^*F^{-3^*sinx^4^*cosx^*pi^{-4^*m38^{-1}} \\
& - 1/288^*ln(1)^*ln(6)^*F^{-3^*sinx^4^*cosx^*pi^{-4^*m83^{-1}} - 1/432^*ln(1)^*ln(6)^*F^{-3^*sinx^5^*sqrt3^*pi^{-4^*m38^{-1}} + 1/288^*ln(1)^*ln(6)^*F^{-3^*sinx^5^*sqrt3^*pi^{-4^*m83^{-1}} \\
& + 1/5184^*ln(1)^*ln(8)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m38^{-1}} - 43/69120^*ln(1)^*ln(8)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m38^{-1}}
\end{aligned}$$

$$\begin{aligned}
& 4^*m83^{-1} - 1/1296*\ln(1)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m38^{-1} + 151/51840*\ln(1)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 1/216*\ln(1)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m38^{-1} - 17/1296*\ln(1)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 1/324*\ln(1)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m38^{-1} + 5/648*\ln(1)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} + 5/20736*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 106/81*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} + 68/27*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} + 2/27*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} - 32/81*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} - 1/36*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} - 5/1296*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 320/27*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1} - 64/3*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1} - 32/9*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1} + 8/3*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1} + 4/3*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1} - 512/27*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1} - 512/9*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1} + 512/27*\ln(3)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-1} + 512/9*\ln(3)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-1} - 119/248832*\ln(3)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 35/6912*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 1/144*\ln(3)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 7/1296*\ln(3)^2*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} - 1/81*\ln(3)^2*F^{-3}*\sin x^8*\cos x*\pi^{-4}*m83^{-1} + 11/27648*\ln(3)*\ln(4)*F^{-3}*\cos x*\pi^{-4}*m38^{-1} + 623/414720*\ln(3)*\ln(4)*F^{-3}*\cos x*\pi^{-4}*m83^{-1} - 5/6912*\ln(3)*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1} - 437/165888*\ln(3)*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 647/103680*\ln(3)*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 5/2592*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1} - 13/2304*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/1296*\ln(3)*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m38^{-1} + 37/2592*\ln(3)*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 7/648*\ln(3)*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/648*\ln(3)*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} - 19/1296*\ln(3)*\ln(4)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} - 1/648*\ln(3)*\ln(4)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m38^{-1} - 1/432*\ln(3)*\ln(4)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1} - 11/27648*\ln(3)*\ln(6)*F^{-3}*\cos x*\pi^{-4}*m38^{-1} - 623/414720*\ln(3)*\ln(6)*F^{-3}*\cos x*\pi^{-4}*m83^{-1} + 23/20736*\ln(3)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1} + 67/18432*\ln(3)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 647/103680*\ln(3)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 5/2592*\ln(3)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1} + 13/2304*\ln(3)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/1296*\ln(3)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m38^{-1} + 37/2592*\ln(3)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 7/648*\ln(3)*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/648*\ln(3)*\ln(6)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m38^{-1} - 19/1296*\ln(3)*\ln(6)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} + 1/648*\ln(3)*\ln(6)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m38^{-1} + 1/432*\ln(3)*\ln(6)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/124416*\ln(3)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 7/10368*\ln(3)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 7/648*\ln(3)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 23/648*\ln(3)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} + 2/81*\ln(3)*\ln(8)*F^{-3}*\sin x^8*\cos x*\pi^{-4}*m83^{-1} + 31/55296*\ln(4)*F^{-3}*\cos x*\pi^{-4}*m83^{-1} - 7/27*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L8r*m38^{-1} + 91/27*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L8r*m83^{-1} - 1/3*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L7r*m38^{-1} + 50/9*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L7r*m83^{-1} - 1/9*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L6r*m38^{-1} + 8/9*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L6r*m83^{-1} + 2/27*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L5r*m38^{-1} - 167/216*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L5r*m83^{-1} + 1/18*\ln(4)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\cos x^*\pi^{-2}*L4r^*m38^{-1} - 23/72*\ln(4)*F^{-3}*\cos x^*\pi^{-2}*L4r^*m83^{-1} - \\
& 1/16*\ln(4)*F^{-3}*\cos x^*\pi^{-2}*L3r^*m83^{-1} - 215/165888*\ln(4)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4} \\
& *m83^{-1} + 5/9*\ln(4)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L8r^*m38^{-1} - 35/6*\ln(4)*F^{-3} \\
& *\sin x^*\sqrt{3}^*\pi^{-2}*L8r^*m83^{-1} + 10/9*\ln(4)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L7r^*m38^{-1} \\
& - 61/6*\ln(4)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L7r^*m83^{-1} + 2/9*\ln(4)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2} \\
& *L6r^*m38^{-1} - \ln(4)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L6r^*m83^{-1} - 5/54*\ln(4)*F^{-3} \\
& *\sin x^*\sqrt{3}^*\pi^{-2}*L5r^*m38^{-1} + 29/24*\ln(4)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L5r^*m83^{-1} \\
& - 1/9*\ln(4)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L4r^*m38^{-1} + 25/72*\ln(4)*F^{-3} \\
& *\sin x^*\sqrt{3}^*\pi^{-2}*L4r^*m83^{-1} + 11/144*\ln(4)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2} \\
& *L3r^*m83^{-1} + 1/1296*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-4}*m83^{-1} - 4/9*\ln(4)*F^{-3} \\
& *\sin x^2*\cos x^*\pi^{-2}*L8r^*m38^{-1} - 436/27*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-2} \\
& *L8r^*m83^{-1} - 16/9*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-2}*L7r^*m38^{-1} - 248/9*\ln(4)*F^{-3} \\
& *\sin x^2*\cos x^*\pi^{-2}*L7r^*m83^{-1} + 4/9*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-2} \\
& *L6r^*m38^{-1} - 44/9*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-2}*L6r^*m83^{-1} - 2/27*\ln(4)*F^{-3} \\
& *\sin x^2*\cos x^*\pi^{-2}*L5r^*m38^{-1} + 76/27*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-2} \\
& *L5r^*m83^{-1} - 2/9*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-2}*L4r^*m38^{-1} + 16/9*\ln(4)*F^{-3} \\
& *\sin x^2*\cos x^*\pi^{-2}*L4r^*m83^{-1} + 1/3*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-2} \\
& *L3r^*m83^{-1} + 7/1728*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-4}*m83^{-1} - 100/27*\ln(4)*F^{-3} \\
& *\sin x^3*\sqrt{3}^*\pi^{-2}*L8r^*m38^{-1} + 268/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-2} \\
& *L8r^*m83^{-1} - 32/3*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-2}*L7r^*m38^{-1} + 208/9*\ln(4)*F^{-3} \\
& *\sin x^3*\sqrt{3}^*\pi^{-2}*L7r^*m83^{-1} - 4/9*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-2} \\
& *L6r^*m38^{-1} + 4/3*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-2}*L6r^*m83^{-1} + 2/27*\ln(4)*F^{-3} \\
& *\sin x^3*\sqrt{3}^*\pi^{-2}*L5r^*m38^{-1} - 8/9*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-2} \\
& *L5r^*m83^{-1} + 2/9*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-2}*L4r^*m38^{-1} - 4/9*\ln(4)*F^{-3} \\
& *\sin x^3*\sqrt{3}^*\pi^{-2}*L4r^*m83^{-1} - 1/9*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-2} \\
& *L3r^*m83^{-1} - 1/648*\ln(4)*F^{-3}*\sin x^4*\cos x^*\pi^{-4}*m83^{-1} + 32/27*\ln(4)*F^{-3} \\
& *\sin x^4*\cos x^*\pi^{-2}*L8r^*m38^{-1} - 16/9*\ln(4)*F^{-3}*\sin x^4*\cos x^*\pi^{-2} \\
& *L8r^*m83^{-1} + 32/9*\ln(4)*F^{-3}*\sin x^4*\cos x^*\pi^{-2}*L7r^*m38^{-1} - 16/3*\ln(4)*F^{-3} \\
& *\sin x^4*\cos x^*\pi^{-2}*L7r^*m83^{-1} - 1/216*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}^*\pi^{-4} \\
& *m83^{-1} + 32/9*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}^*\pi^{-2}*L8r^*m38^{-1} - 16/3*\ln(4)*F^{-3} \\
& *\sin x^5*\sqrt{3}^*\pi^{-2}*L8r^*m83^{-1} + 32/3*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}^*\pi^{-2} \\
& *L7r^*m38^{-1} - 16*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}^*\pi^{-2}*L7r^*m83^{-1} - 11/27648*\ln(4)^2 \\
& *F^{-3}*\cos x^*\pi^{-4}*m38^{-1} + 1/2048*\ln(4)^2*F^{-3}*\cos x^*\pi^{-4}*m83^{-1} + 7/27648*\ln(4)^2 \\
& *F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4}*m38^{-1} - 241/165888*\ln(4)^2*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4} \\
& *m83^{-1} + 1/576*\ln(4)^2*F^{-3}*\sin x^2*\cos x^*\pi^{-4}*m38^{-1} + 1/3456*\ln(4)^2*F^{-3} \\
& *\sin x^2*\cos x^*\pi^{-4}*m83^{-1} + 7/1728*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-4} \\
& *m38^{-1} - 49/10368*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-4}*m83^{-1} - 1/216*\ln(4)^2*F^{-3} \\
& *\sin x^5*\sqrt{3}^*\pi^{-4}*m38^{-1} + 1/144*\ln(4)^2*F^{-3}*\sin x^5*\sqrt{3}^*\pi^{-4} \\
& *m83^{-1} + 1/2304*\ln(4)*\ln(6)*F^{-3}*\cos x^*\pi^{-4}*m83^{-1} - 7/13824*\ln(4)*\ln(6)*F^{-3} \\
& *\sin x^*\sqrt{3}^*\pi^{-4}*m38^{-1} + 41/82944*\ln(4)*\ln(6)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4} \\
& *m83^{-1} - 1/288*\ln(4)*\ln(6)*F^{-3}*\sin x^2*\cos x^*\pi^{-4}*m83^{-1} - 1/216*\ln(4)*\ln(6)*F^{-3} \\
& *\sin x^4*\cos x^*\pi^{-4}*m38^{-1} + 1/144*\ln(4)*\ln(6)*F^{-3}*\sin x^4*\cos x^*\pi^{-4} \\
& *m83^{-1} - 1/82944*\ln(4)*\ln(8)*F^{-3}*\cos x^*\pi^{-4}*m38^{-1} + 757/414720*\ln(4)*\ln(8)*F^{-3} \\
& *\cos x^*\pi^{-4}*m83^{-1} - 1/10368*\ln(4)*\ln(8)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4}*m38^{-1} - \\
& 703/165888*\ln(4)*\ln(8)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4}*m83^{-1} + 1/2592*\ln(4)*\ln(8)*F^{-3} \\
& *\sin x^2*\cos x^*\pi^{-4}*m38^{-1} - 733/103680*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\cos x^*\pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*m83^{\wedge}-1 + 1/324*\ln(4)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-4^*m38^{\wedge}-1 + 113/20736*\ln(4)*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-4^*m83^{\wedge}-1 - 1/432*\ln(4)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx*\pi^{\wedge}- \\
& 4^*m38^{\wedge}-1 - 31/2592*\ln(4)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx*\pi^{\wedge}-4^*m83^{\wedge}-1 - 1/216*\ln(4)*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}5*\sqrt{3}*\pi^{\wedge}-4^*m38^{\wedge}-1 - 5/1296*\ln(4)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}5*\sqrt{3}*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-1 + 1/648*\ln(4)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}6*\cosx*\pi^{\wedge}-4^*m38^{\wedge}-1 + 19/1296*\ln(4)*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}6*\cosx*\pi^{\wedge}-4^*m83^{\wedge}-1 + 1/648*\ln(4)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}7*\sqrt{3}*\pi^{\wedge}- \\
& 4^*m38^{\wedge}-1 + 1/432*\ln(4)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}7*\sqrt{3}*\pi^{\wedge}-4^*m83^{\wedge}-1 - 31/55296*\ln(6)*F^{\wedge}- \\
& 3*\cosx*\pi^{\wedge}-4^*m83^{\wedge}-1 + 7/27*\ln(6)*F^{\wedge}-3*\cosx*\pi^{\wedge}-2*L8r^*m38^{\wedge}-1 - 91/27*\ln(6)*F^{\wedge}- \\
& 3*\cosx*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 + 1/3*\ln(6)*F^{\wedge}-3*\cosx*\pi^{\wedge}-2*L7r^*m38^{\wedge}-1 - \\
& 50/9*\ln(6)*F^{\wedge}-3*\cosx*\pi^{\wedge}-2*L7r^*m83^{\wedge}-1 + 1/9*\ln(6)*F^{\wedge}-3*\cosx*\pi^{\wedge}- \\
& 2*L6r^*m38^{\wedge}-1 - 8/9*\ln(6)*F^{\wedge}-3*\cosx*\pi^{\wedge}-2*L6r^*m83^{\wedge}-1 - 2/27*\ln(6)*F^{\wedge}- \\
& 3*\cosx*\pi^{\wedge}-2*L5r^*m38^{\wedge}-1 + 167/216*\ln(6)*F^{\wedge}-3*\cosx*\pi^{\wedge}-2*L5r^*m83^{\wedge}-1 - \\
& 1/18*\ln(6)*F^{\wedge}-3*\cosx*\pi^{\wedge}-2*L4r^*m38^{\wedge}-1 + 23/72*\ln(6)*F^{\wedge}-3*\cosx*\pi^{\wedge}- \\
& 2*L4r^*m83^{\wedge}-1 + 1/16*\ln(6)*F^{\wedge}-3*\cosx*\pi^{\wedge}-2*L3r^*m83^{\wedge}-1 - 71/165888*\ln(6)*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*\pi^{\wedge}-4^*m83^{\wedge}-1 - 17/27*\ln(6)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L8r^*m38^{\wedge}- \\
& 1 + 205/54*\ln(6)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 - 2/3*\ln(6)*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L7r^*m38^{\wedge}-1 + 9/2*\ln(6)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L7r^*m83^{\wedge}- \\
& 1 - 4/9*\ln(6)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L6r^*m38^{\wedge}-1 + \ln(6)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}- \\
& 2*L6r^*m83^{\wedge}-1 + 11/54*\ln(6)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L5r^*m38^{\wedge}-1 - 331/216*\ln(6)*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L5r^*m83^{\wedge}-1 + 2/9*\ln(6)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L4r^*m38^{\wedge}- \\
& 1 - 23/72*\ln(6)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L4r^*m83^{\wedge}-1 - 11/48*\ln(6)*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L3r^*m83^{\wedge}-1 + 1/1296*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-1 - 4/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-2*L8r^*m38^{\wedge}-1 - 436/27*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 - 16/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}- \\
& 2*L7r^*m38^{\wedge}-1 - 248/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-2*L7r^*m83^{\wedge}-1 + 4/9*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-2*L6r^*m38^{\wedge}-1 - 44/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}- \\
& 2*L6r^*m83^{\wedge}-1 - 2/27*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-2*L5r^*m38^{\wedge}-1 + 76/27*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-2*L5r^*m83^{\wedge}-1 - 2/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-2*L4r^*m38^{\wedge}- \\
& 1 + 16/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-2*L4r^*m83^{\wedge}-1 + 1/3*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}2*\cosx*\pi^{\wedge}-2*L3r^*m83^{\wedge}-1 - 7/1728*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-1 + 100/27*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L8r^*m38^{\wedge}-1 - 268/27*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 + 32/3*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}- \\
& 2*L7r^*m38^{\wedge}-1 - 208/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L7r^*m83^{\wedge}-1 + \\
& 4/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L6r^*m38^{\wedge}-1 - 4/3*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}- \\
& 2*L6r^*m83^{\wedge}-1 - 2/27*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L5r^*m38^{\wedge}-1 + 8/9*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L5r^*m83^{\wedge}-1 - 2/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}- \\
& 2*L4r^*m38^{\wedge}-1 + 4/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L4r^*m83^{\wedge}-1 + 1/9*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}3*\sqrt{3}*\pi^{\wedge}-2*L3r^*m83^{\wedge}-1 - 1/648*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-1 + 32/27*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx*\pi^{\wedge}-2*L8r^*m38^{\wedge}-1 - 16/9*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}4*\cosx*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 + 32/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx*\pi^{\wedge}- \\
& 2*L7r^*m38^{\wedge}-1 - 16/3*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx*\pi^{\wedge}-2*L7r^*m83^{\wedge}-1 + 1/216*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}5*\sqrt{3}*\pi^{\wedge}-4^*m83^{\wedge}-1 - 32/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}5*\sqrt{3}*\pi^{\wedge}-2*L8r^*m38^{\wedge}- \\
& 1 + 16/3*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}5*\sqrt{3}*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 - 32/3*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}5*\sqrt{3}*\pi^{\wedge}-2*L7r^*m38^{\wedge}-1 + 16*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}5*\sqrt{3}*\pi^{\wedge}- \\
& 2*L7r^*m83^{\wedge}-1 + 11/27648*\ln(6)^{\wedge}2*F^{\wedge}-3*\cosx*\pi^{\wedge}-4^*m38^{\wedge}-1 - 17/18432*\ln(6)^{\wedge}2*F^{\wedge}- \\
& 3*\cosx*\pi^{\wedge}-4^*m83^{\wedge}-1 - 25/27648*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-4^*m38^{\wedge}-1
\end{aligned}$$

$$\begin{aligned}
& + \frac{73}{30720} \ln(6)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-1} + \frac{1}{576} \ln(6)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m_{83}^{-1} + \frac{1}{3456} \ln(6)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m_{83}^{-1} \\
& - \frac{7}{1728} \ln(6)^2 F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m_{83}^{-1} + \frac{49}{10368} \ln(6)^2 F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m_{83}^{-1} + \frac{1}{216} \ln(6)^2 F^{-3} \sin x^5 \sqrt{3} \pi^{-4} m_{83}^{-1} \\
& - \frac{1}{144} \ln(6)^2 F^{-3} \sin x^5 \sqrt{3} \pi^{-4} m_{83}^{-1} + \frac{1}{82944} \ln(6) \ln(8) F^{-3} \cos x \pi^{-4} m_{83}^{-1} - \frac{757}{414720} \ln(6) \ln(8) F^{-3} \cos x \pi^{-4} m_{83}^{-1} \\
& - \frac{1}{10368} \ln(6) \ln(8) F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-1} + \frac{3109}{829440} \ln(6) \ln(8) F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-1} + \frac{1}{2592} \ln(6) \ln(8) F^{-3} \sin x^2 \cos x \pi^{-4} m_{83}^{-1} \\
& - \frac{733}{103680} \ln(6) \ln(8) F^{-3} \sin x^2 \cos x \pi^{-4} m_{83}^{-1} - \frac{1}{324} \ln(6) \ln(8) F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m_{83}^{-1} - \frac{113}{20736} \ln(6) \ln(8) F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m_{83}^{-1} \\
& - \frac{1}{432} \ln(6) \ln(8) F^{-3} \sin x^4 \cos x \pi^{-4} m_{83}^{-1} + \frac{1}{216} \ln(6) \ln(8) F^{-3} \sin x^5 \sqrt{3} \pi^{-4} m_{83}^{-1} + \frac{5}{1296} \ln(6) \ln(8) F^{-3} \sin x^5 \sqrt{3} \pi^{-4} m_{83}^{-1} \\
& + \frac{1}{648} \ln(6) \ln(8) F^{-3} \sin x^6 \cos x \pi^{-4} m_{83}^{-1} + \frac{19}{1296} \ln(6) \ln(8) F^{-3} \sin x^6 \cos x \pi^{-4} m_{83}^{-1} - \frac{1}{648} \ln(6) \ln(8) F^{-3} \sin x^7 \sqrt{3} \pi^{-4} m_{83}^{-1} \\
& - \frac{1}{432} \ln(6) \ln(8) F^{-3} \sin x^7 \sqrt{3} \pi^{-4} m_{83}^{-1} + \frac{7}{31104} \ln(8) F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-1} - \frac{16}{9} \ln(8) F^{-3} \sin x \sqrt{3} \pi^{-2} L_{8r} m_{83}^{-1} \\
& - \frac{10}{3} \ln(8) F^{-3} \sin x \sqrt{3} \pi^{-2} L_{7r} m_{83}^{-1} - \frac{2}{9} \ln(8) F^{-3} \sin x \sqrt{3} \pi^{-2} L_{6r} m_{83}^{-1} + \frac{17}{162} \ln(8) F^{-3} \sin x \sqrt{3} \pi^{-2} L_{5r} m_{83}^{-1} \\
& + \frac{1}{12} \ln(8) F^{-3} \sin x \sqrt{3} \pi^{-2} L_{4r} m_{83}^{-1} - \frac{1}{648} \ln(8) F^{-3} \sin x^2 \cos x \pi^{-4} m_{83}^{-1} - \frac{32}{3} \ln(8) F^{-3} \sin x^2 \cos x \pi^{-2} L_{8r} m_{83}^{-1} \\
& - \frac{160}{9} \ln(8) F^{-3} \sin x^2 \cos x \pi^{-2} L_{7r} m_{83}^{-1} - \frac{32}{9} \ln(8) F^{-3} \sin x^2 \cos x \pi^{-2} L_{6r} m_{83}^{-1} + \frac{32}{27} \ln(8) F^{-3} \sin x^2 \cos x \pi^{-2} L_{5r} m_{83}^{-1} \\
& + \frac{4}{3} \ln(8) F^{-3} \sin x^2 \cos x \pi^{-2} L_{4r} m_{83}^{-1} + \frac{512}{27} \ln(8) F^{-3} \sin x^4 \cos x \pi^{-2} L_{8r} m_{83}^{-1} + \frac{512}{9} \ln(8) F^{-3} \sin x^4 \cos x \pi^{-2} L_{7r} m_{83}^{-1} \\
& - \frac{512}{27} \ln(8) F^{-3} \sin x^6 \cos x \pi^{-2} L_{8r} m_{83}^{-1} - \frac{512}{9} \ln(8) F^{-3} \sin x^6 \cos x \pi^{-2} L_{7r} m_{83}^{-1} + \frac{173}{248832} \ln(8)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-1} \\
& + \frac{89}{20736} \ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m_{83}^{-1} - \frac{23}{1296} \ln(8)^2 F^{-3} \sin x^4 \cos x \pi^{-4} m_{83}^{-1} + \frac{13}{432} \ln(8)^2 F^{-3} \sin x^6 \cos x \pi^{-4} m_{83}^{-1} \\
& - \frac{1}{81} \ln(8)^2 F^{-3} \sin x^8 \cos x \pi^{-4} m_{83}^{-1} - \frac{19}{276480} (\text{mass}(3)) \ln(3)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} + \frac{1}{540} (\text{mass}(3)) \ln(3)^2 F^{-3} \sin x^2 \cos x \pi^{-4} \\
& - \frac{23}{122880} (\text{mass}(4)) \ln(4)^2 F^{-3} \cos x \pi^{-4} + \frac{19}{73728} (\text{mass}(4)) \ln(4)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} + \frac{7}{7680} (\text{mass}(4)) \ln(4)^2 F^{-3} \sin x^2 \cos x \pi^{-4} \\
& - \frac{7}{23040} (\text{mass}(4)) \ln(4)^2 F^{-3} \sin x^3 \sqrt{3} \pi^{-4} - \frac{149}{368640} (\text{mass}(5)) \ln(4)^2 F^{-3} \cos x \pi^{-4} + \frac{137}{221184} (\text{mass}(5)) \ln(4)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} \\
& + \frac{41}{23040} (\text{mass}(5)) \ln(4)^2 F^{-3} \sin x^2 \cos x \pi^{-4} - \frac{41}{69120} (\text{mass}(5)) \ln(4)^2 F^{-3} \sin x^3 \sqrt{3} \pi^{-4} + \frac{73}{122880} (\text{mass}(6)) \ln(6)^2 F^{-3} \cos x \pi^{-4} \\
& - \frac{61}{368640} (\text{mass}(6)) \ln(6)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} + \frac{7}{7680} (\text{mass}(6)) \ln(6)^2 F^{-3} \sin x^2 \cos x \pi^{-4} + \frac{7}{23040} (\text{mass}(6)) \ln(6)^2 F^{-3} \sin x^3 \sqrt{3} \pi^{-4} \\
& + \frac{179}{368640} (\text{mass}(7)) \ln(6)^2 F^{-3} \cos x \pi^{-4} - \frac{47}{122880} (\text{mass}(7)) \ln(6)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} + \frac{41}{23040} (\text{mass}(7)) \ln(6)^2 F^{-3} \sin x^2 \cos x \pi^{-4} \\
& + \frac{41}{69120} (\text{mass}(7)) \ln(6)^2 F^{-3} \sin x^3 \sqrt{3} \pi^{-4} + \frac{1}{1536} (\text{mass}(8)) \ln(8)^2 F^{-3} \cos x \pi^{-4} + \frac{211}{829440} (\text{mass}(8)) \ln(8)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} \\
& + \frac{1}{540} (\text{mass}(8)) \ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4}) \\
& + \text{mud}^2 \text{mpp}^2 \text{mkp}^2 \text{m}^2 * (+ \frac{32768}{27} F^{-3} \sin x \sqrt{3} L_{8r}^2 m_{83}^{-2} +
\end{aligned}$$

$$\begin{aligned}
& 65536/9F^{-3}\sin x\sqrt{3}L7rL8r^2m83^{-2} + 32768/3F^{-3}\sin x\sqrt{3}L7r^2m83^{-2} \\
& - 1024/3F^{-3}\sin x\sqrt{3}L6rL8r^2m83^{-2} - 1024F^{-3}\sin x\sqrt{3}L6rL7r^2m83^{-2} \\
& + 1024/9F^{-3}\sin x\sqrt{3}L5rL8r^2m83^{-2} + 1024/3F^{-3}\sin x\sqrt{3}L5rL7r^2m83^{-2} \\
& - 512/3F^{-3}\sin x\sqrt{3}L4rL8r^2m83^{-2} - 512F^{-3}\sin x\sqrt{3}L4rL7r^2m83^{-2} \\
& - 180224/9F^{-3}\sin x^2\cos xL8r^2m83^{-2} - 1064960/9F^{-3}\sin x^2\cos xL7rL8r^2m83^{-2} \\
& - 524288/3F^{-3}\sin x^2\cos xL7r^2m83^{-2} - 16384/9F^{-3}\sin x^2\cos xL6rL8r^2m83^{-2} \\
& - 16384/3F^{-3}\sin x^2\cos xL6rL7r^2m83^{-2} + 8192/27F^{-3}\sin x^2\cos xL5rL8r^2m83^{-2} \\
& + 8192/9F^{-3}\sin x^2\cos xL5rL7r^2m83^{-2} + 8192/9F^{-3}\sin x^2\cos xL4rL8r^2m83^{-2} \\
& + 8192/3F^{-3}\sin x^2\cos xL4rL7r^2m83^{-2} + 262144/9F^{-3}\sin x^4\cos xL8r^2m83^{-2} \\
& + 524288/3F^{-3}\sin x^4\cos xL7rL8r^2m83^{-2} + 262144F^{-3}\sin x^4\cos xL7r^2m83^{-2} \\
& + 1/2592C\ln(1)F^{-3}\sin x\sqrt{3}\pi^{-4}m83^{-2} + 1/1728C\ln(3)F^{-3}\sin x\sqrt{3}\pi^{-4}m83^{-2} \\
& + 1/162C\ln(3)F^{-3}\sin x^2\cos x\pi^{-4}m83^{-2} + 1/864C\ln(4)F^{-3}\cos x\pi^{-4}m83^{-2} \\
& - 5/2592C\ln(4)F^{-3}\sin x\sqrt{3}\pi^{-4}m83^{-2} - 1/864C\ln(6)F^{-3}\cos x\pi^{-4}m83^{-2} \\
& + 1/648C\ln(6)F^{-3}\sin x\sqrt{3}\pi^{-4}m83^{-2} - 1/1728C\ln(8)F^{-3}\sin x\sqrt{3}\pi^{-4}m83^{-2} \\
& - 1/162C\ln(8)F^{-3}\sin x^2\cos x\pi^{-4}m83^{-2} + 16/81\ln(1)F^{-3}\sin x\sqrt{3}\pi^{-2}L8r^2m83^{-2} \\
& + 16/27\ln(1)F^{-3}\sin x\sqrt{3}\pi^{-2}L7r^2m83^{-2} - 4/27\ln(1)F^{-3}\sin x\sqrt{3}\pi^{-2}L4r^2m83^{-2} \\
& + 128/27\ln(1)F^{-3}\sin x^2\cos x\pi^{-2}L8r^2m83^{-2} + 128/9\ln(1)F^{-3}\sin x^2\cos x\pi^{-2}L7r^2m83^{-2} \\
& - 1/2592\ln(1)\ln(3)F^{-3}\sin x\sqrt{3}\pi^{-4}m83^{-2} - 1/1296\ln(1)\ln(3)F^{-3}\sin x^2\cos x\pi^{-4}m83^{-2} \\
& - 1/162\ln(1)\ln(3)F^{-3}\sin x^4\cos x\pi^{-4}m83^{-2} - 1/1152\ln(1)\ln(4)F^{-3}\cos x\pi^{-4}m83^{-2} \\
& + 23/10368\ln(1)\ln(4)F^{-3}\sin x\sqrt{3}\pi^{-4}m83^{-2} - 1/216\ln(1)\ln(4)F^{-3}\sin x^2\cos x\pi^{-4}m83^{-2} \\
& - 1/216\ln(1)\ln(4)F^{-3}\sin x^3\sqrt{3}\pi^{-4}m83^{-2} + 1/1152\ln(1)\ln(6)F^{-3}\cos x\pi^{-4}m83^{-2} \\
& - 25/10368\ln(1)\ln(6)F^{-3}\sin x\sqrt{3}\pi^{-4}m83^{-2} - 1/216\ln(1)\ln(6)F^{-3}\sin x^3\sqrt{3}\pi^{-4}m83^{-2} \\
& + 1/7776\ln(1)\ln(8)F^{-3}\sin x\sqrt{3}\pi^{-4}m83^{-2} + 1/162\ln(1)\ln(8)F^{-3}\sin x^4\cos x\pi^{-4}m83^{-2} \\
& - 4/3\ln(3)F^{-3}\sin x\sqrt{3}\pi^{-2}L8r^2m83^{-2} - 100/27\ln(3)F^{-3}\sin x\sqrt{3}\pi^{-2}L7r^2m83^{-2} \\
& + 4/27\ln(3)F^{-3}\sin x\sqrt{3}\pi^{-2}L6r^2m83^{-2} - 8/81\ln(3)F^{-3}\sin x\sqrt{3}\pi^{-2}L5r^2m83^{-2} \\
& + 4/27\ln(3)F^{-3}\sin x\sqrt{3}\pi^{-2}L4r^2m83^{-2} + 176/9\ln(3)F^{-3}\sin x^2\cos x\pi^{-2}L8r^2m83^{-2} \\
& + 1600/27\ln(3)F^{-3}\sin x^2\cos x\pi^{-2}L7r^2m83^{-2} + 16/27\ln(3)F^{-3}\sin x^2\cos x\pi^{-2}L6r^2m83^{-2} \\
& - 8/27\ln(3)F^{-3}\sin x^2\cos x\pi^{-2}L5r^2m83^{-2} - 40/27\ln(3)F^{-3}\sin x^2\cos x\pi^{-2}L4r^2m83^{-2} \\
& + 1376/81\ln(3)F^{-3}\sin x^4\cos x\pi^{-2}L8r^2m83^{-2} + 1408/27\ln(3)F^{-3}\sin x^4\cos x\pi^{-2}L7r^2m83^{-2} \\
& - 32/27\ln(3)F^{-3}\sin x^4\cos x\pi^{-2}L6r^2m83^{-2} + 16/81\ln(3)F^{-3}\sin x^4\cos x\pi^{-2}L5r^2m83^{-2} \\
& + 16/27\ln(3)F^{-3}\sin x^4\cos x\pi^{-2}L4r^2m83^{-2} - 1280/27\ln(3)F^{-3}\sin x^6\cos x\pi^{-2}L8r^2m83^{-2} \\
& - 1280/9\ln(3)F^{-3}\sin x^6\cos x\pi^{-2}L7r^2m83^{-2} + 1/3888\ln(3)^2F^{-3}\sin x\sqrt{3}\pi^{-4}m83^{-2} \\
& - 43/7776\ln(3)^2F^{-3}\sin x^2\cos x\pi^{-4}m83^{-2} - 19/1296\ln(3)^2F^{-3}\sin x^4\cos x\pi^{-4}m83^{-2} \\
& + 5/486\ln(3)^2F^{-3}\sin x^6\cos x\pi^{-4}m83^{-2} + 1/81\ln(3)^2F^{-3}\sin x^8\cos x\pi^{-4}m83^{-2} \\
& + 19/20736\ln(3)\ln(4)F^{-3}\cos x\pi^{-4}m83^{-2} + 5/3888\ln(3)\ln(4)F^{-3}\sin x\sqrt{3}\pi^{-4}m83^{-2} \\
& - 23/1296\ln(3)\ln(4)F^{-3}\sin x^2\cos x\pi^{-4}m83^{-2} - 43/2592\ln(3)\ln(4)F^{-3}\sin x^3\sqrt{3}\pi^{-4}m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 4^*m83^{-2} - 19/1296*\ln(3)*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} + 31/3888*\ln(3)*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& + 5/108*\ln(3)*\ln(4)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} + 1/108*\ln(3)*\ln(4)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 19/20736*\ln(3)*\ln(6)*F^{-3*\cos x*\pi^{-4}*m83^{-2}} + 11/7776*\ln(3)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 23/1296*\ln(3)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 43/2592*\ln(3)*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 19/1296*\ln(3)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} - 31/3888*\ln(3)*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& + 5/108*\ln(3)*\ln(6)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} - 1/108*\ln(3)*\ln(6)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& + 1/864*\ln(3)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} - 19/1296*\ln(3)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} \\
& + 5/648*\ln(3)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} - 2/81*\ln(3)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} \\
& + 10/243*\ln(3)*\ln(8)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} - 2/81*\ln(3)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} \\
& - 16/9*\ln(4)*F^{-3*\cos x*\pi^{-2}*L8r*m83^{-2}} - 40/9*\ln(4)*F^{-3*\cos x*\pi^{-2}*L7r*m83^{-2}} \\
& - 1/3*\ln(4)*F^{-3*\cos x*\pi^{-2}*L6r*m83^{-2}} - 1/27*\ln(4)*F^{-3*\cos x*\pi^{-2}*L5r*m83^{-2}} + 5/18*\ln(4)*F^{-3*\cos x*\pi^{-2}*L4r*m83^{-2}} \\
& + 8/81*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} - 40/27*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} \\
& + 7/9*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2}} + 1/27*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2}} \\
& - 35/54*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2}} + 944/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2}} \\
& + 928/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2}} + 16/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2}} \\
& - 8/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2}} - 8/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2}} \\
& + 2096/81*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} + 2144/27*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} \\
& - 16/9*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2}} + 8/9*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2}} \\
& - 512/9*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2}} - 512/3*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2}} \\
& - 256/9*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} - 256/3*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} \\
& - 47/41472*\ln(4)^2*F^{-3*\cos x*\pi^{-4}*m83^{-2}} - 47/41472*\ln(4)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} \\
& - 5/216*\ln(4)^2*F^{-3*\cos x*\pi^{-4}*m83^{-2}} + 1/36*\ln(4)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} \\
& + 1/36*\ln(4)^2*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} - 1/1152*\ln(4)*\ln(6)*F^{-3*\cos x*\pi^{-4}*m83^{-2}} \\
& + 49/20736*\ln(4)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} - 1/72*\ln(4)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} \\
& + 1/18*\ln(4)*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} + 1/648*\ln(4)*\ln(8)*F^{-3*\cos x*\pi^{-4}*m83^{-2}} \\
& - 109/62208*\ln(4)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} - 37/1296*\ln(4)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} \\
& - 127/7776*\ln(4)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} + 115/1296*\ln(4)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} \\
& + 113/3888*\ln(4)*\ln(8)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} - 5/108*\ln(4)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} \\
& - 1/108*\ln(4)*\ln(8)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2}} + 16/9*\ln(6)*F^{-3*\cos x*\pi^{-2}*L8r*m83^{-2}} \\
& + 40/9*\ln(6)*F^{-3*\cos x*\pi^{-2}*L7r*m83^{-2}} + 1/3*\ln(6)*F^{-3*\cos x*\pi^{-2}*L6r*m83^{-2}} \\
& - 1/27*\ln(6)*F^{-3*\cos x*\pi^{-2}*L5r*m83^{-2}} - 5/18*\ln(6)*F^{-3*\cos x*\pi^{-2}*L4r*m83^{-2}} \\
& - 136/27*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} - 40/3*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} \\
& - 1/9*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2}} - 7/27*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2}} \\
& + 61/54*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2}} + 944/27*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}}
\end{aligned}$$

$$\begin{aligned}
& 2^*L8r^*m83^{\wedge}-2 + 928/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-2*L7r^*m83^{\wedge}-2 + \\
& 16/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-2*L6r^*m83^{\wedge}-2 - 8/27*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}- \\
& 2^*L5r^*m83^{\wedge}-2 - 8/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-2*L4r^*m83^{\wedge}-2 - 2096/81*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}3*\sqrt{3}^*pi^{\wedge}-2*L8r^*m83^{\wedge}-2 - 2144/27*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}^*pi^{\wedge}- \\
& 2^*L7r^*m83^{\wedge}-2 + 16/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}^*pi^{\wedge}-2*L6r^*m83^{\wedge}-2 - 8/27*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}3*\sqrt{3}^*pi^{\wedge}-2*L5r^*m83^{\wedge}-2 - 8/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}^*pi^{\wedge}- \\
& 2^*L4r^*m83^{\wedge}-2 - 512/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}-2*L8r^*m83^{\wedge}-2 - 512/3*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}-2*L7r^*m83^{\wedge}-2 + 256/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}5*\sqrt{3}^*pi^{\wedge}- \\
& 2^*L8r^*m83^{\wedge}-2 + 256/3*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}5*\sqrt{3}^*pi^{\wedge}-2*L7r^*m83^{\wedge}-2 - \\
& 1/864*\ln(6)^{\wedge}2*F^{\wedge}-3*\cosx^*pi^{\wedge}-4*m83^{\wedge}-2 + 149/41472*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^*sqrt{3}^*pi^{\wedge}- \\
& 4*m83^{\wedge}-2 - 5/216*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-4*m83^{\wedge}-2 + 2/81*\ln(6)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^{\wedge}3*\sqrt{3}^*pi^{\wedge}-4*m83^{\wedge}-2 + 1/36*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}-4*m83^{\wedge}-2 \\
& - 1/36*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}5*\sqrt{3}^*pi^{\wedge}-4*m83^{\wedge}-2 - 1/648*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\cosx^*pi^{\wedge}-4*m83^{\wedge}-2 + 323/62208*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^*sqrt{3}^*pi^{\wedge}-4*m83^{\wedge}-2 \\
& - 37/1296*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-4*m83^{\wedge}-2 + 127/7776*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}3*\sqrt{3}^*pi^{\wedge}-4*m83^{\wedge}-2 + 115/1296*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}- \\
& 4*m83^{\wedge}-2 - 113/3888*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}5*\sqrt{3}^*pi^{\wedge}-4*m83^{\wedge}-2 - 5/108*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}6*\cosx^*pi^{\wedge}-4*m83^{\wedge}-2 + 1/108*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}7*\sqrt{3}^*pi^{\wedge}- \\
& 4*m83^{\wedge}-2 - 136/81*\ln(8)*F^{\wedge}-3*\sinx^*sqrt{3}^*pi^{\wedge}-2*L8r^*m83^{\wedge}-2 - 16/3*\ln(8)*F^{\wedge}- \\
& 3*\sinx^*sqrt{3}^*pi^{\wedge}-2*L7r^*m83^{\wedge}-2 + 8/27*\ln(8)*F^{\wedge}-3*\sinx^*sqrt{3}^*pi^{\wedge}-2*L6r^*m83^{\wedge}- \\
& 2 - 4/81*\ln(8)*F^{\wedge}-3*\sinx^*sqrt{3}^*pi^{\wedge}-2*L5r^*m83^{\wedge}-2 + 2/27*\ln(8)*F^{\wedge}- \\
& 3*\sinx^*sqrt{3}^*pi^{\wedge}-2*L4r^*m83^{\wedge}-2 + 2704/81*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}- \\
& 2*L8r^*m83^{\wedge}-2 + 2624/27*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-2*L7r^*m83^{\wedge}-2 + \\
& 16/9*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-2*L6r^*m83^{\wedge}-2 - 8/81*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}- \\
& 2*L5r^*m83^{\wedge}-2 + 8/27*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-2*L4r^*m83^{\wedge}-2 - 7520/81*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}-2*L8r^*m83^{\wedge}-2 - 7552/27*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}- \\
& 2*L7r^*m83^{\wedge}-2 + 32/27*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}-2*L6r^*m83^{\wedge}-2 - 16/81*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}-2*L5r^*m83^{\wedge}-2 - 16/27*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}- \\
& 2*L4r^*m83^{\wedge}-2 + 1280/27*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}6*\cosx^*pi^{\wedge}-2*L8r^*m83^{\wedge}-2 + \\
& 1280/9*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}6*\cosx^*pi^{\wedge}-2*L7r^*m83^{\wedge}-2 + 7/15552*\ln(8)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^*sqrt{3}^*pi^{\wedge}-4*m83^{\wedge}-2 - 115/7776*\ln(8)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-4*m83^{\wedge}- \\
& 2 + 73/1296*\ln(8)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}-4*m83^{\wedge}-2 - 25/486*\ln(8)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^{\wedge}6*\cosx^*pi^{\wedge}-4*m83^{\wedge}-2 + 1/81*\ln(8)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}8*\cosx^*pi^{\wedge}-4*m83^{\wedge}-2 \\
& + 113/77760/(mass(3))*\ln(3)^{\wedge}2*F^{\wedge}-3*\sinx^*sqrt{3}^*pi^{\wedge}-4*m83^{\wedge}-1 - 211/19440/(mass(3))*\ln(3)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-4*m83^{\wedge}-1 + 1/243/(mass(3))*\ln(3)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}- \\
& 4*m83^{\wedge}-1 + 479/110592/(mass(4))*\ln(4)^{\wedge}2*F^{\wedge}-3*\cosx^*pi^{\wedge}-4*m83^{\wedge}-1 - \\
& 481/36864/(mass(4))*\ln(4)^{\wedge}2*F^{\wedge}-3*\sinx^*sqrt{3}^*pi^{\wedge}-4*m83^{\wedge}-1 - 61/6912/(mass(4))*\ln(4)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-4*m83^{\wedge}-1 + 11/768/(mass(4))*\ln(4)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}^*pi^{\wedge}- \\
& 4*m83^{\wedge}-1 + 503/110592/(mass(5))*\ln(4)^{\wedge}2*F^{\wedge}-3*\cosx^*pi^{\wedge}-4*m83^{\wedge}-1 - \\
& 163/12288/(mass(5))*\ln(4)^{\wedge}2*F^{\wedge}-3*\sinx^*sqrt{3}^*pi^{\wedge}-4*m83^{\wedge}-1 - 61/6912/(mass(5))*\ln(4)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-4*m83^{\wedge}-1 + 11/768/(mass(5))*\ln(4)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}^*pi^{\wedge}- \\
& 4*m83^{\wedge}-1 - 479/110592/(mass(6))*\ln(6)^{\wedge}2*F^{\wedge}-3*\cosx^*pi^{\wedge}-4*m83^{\wedge}-1 + \\
& 2221/184320/(mass(6))*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^*sqrt{3}^*pi^{\wedge}-4*m83^{\wedge}-1 - 61/6912/(mass(6))*\ln(6)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-4*m83^{\wedge}-1 - 11/768/(mass(6))*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}3*\sqrt{3}^*pi^{\wedge}- \\
& 4*m83^{\wedge}-1 - 503/110592/(mass(7))*\ln(6)^{\wedge}2*F^{\wedge}-3*\cosx^*pi^{\wedge}-4*m83^{\wedge}-1 + \\
& 269/20480/(mass(7))*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^*sqrt{3}^*pi^{\wedge}-4*m83^{\wedge}-1 - 61/6912/(mass(7))*\ln(6)^{\wedge}2*F^{\wedge}-
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^2 * \cos x * \pi^{\wedge-4} * m83^{\wedge-1} - 11/768 / (\text{mass}(7)) * \ln(6)^{\wedge 2} * F^{\wedge-3} * \sin x^3 * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-1} \\
& - 1/972 / (\text{mass}(8)) * \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-1} - 209/19440 / (\text{mass}(8)) * \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^2 * \cos x * \pi^{\wedge-4} * m83^{\wedge-1} \\
& - 1/243 / (\text{mass}(8)) * \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^4 * \cos x * \pi^{\wedge-4} * m83^{\wedge-1}) \\
& + \text{mud} * \text{mpp}2 * \text{mkp}2^{\wedge 3} * (- 1/11664 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-2} \\
& - 1/729 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge-3} * \sin x^2 * \cos x * \pi^{\wedge-4} * m83^{\wedge-2} - 1/1728 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge-3} * \cos x * \pi^{\wedge-4} * m83^{\wedge-2} \\
& + 5/5184 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-2} + 1/1728 / (\text{mass}(6)) * \ln(6)^{\wedge 2} * F^{\wedge-3} * \cos x * \pi^{\wedge-4} * m83^{\wedge-2} \\
& - 7/5184 / (\text{mass}(6)) * \ln(6)^{\wedge 2} * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-2} - 1/5832 / (\text{mass}(8)) * \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-2} \\
& + 1/729 / (\text{mass}(8)) * \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^2 * \cos x * \pi^{\wedge-4} * m83^{\wedge-2}) \\
& + \text{mud} * \text{mpp}2^{\wedge 2} * (- 1063/4976640 * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-1} + 443/7464960 * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * m83^{\wedge-1} \\
& - 8/27 * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L8r * m83^{\wedge-1} - 2/27 * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L7r * m83^{\wedge-1} - 5/27 * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L6r * m83^{\wedge-1} \\
& + 11/81 * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L5r * m83^{\wedge-1} + 5/54 * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L4r * m83^{\wedge-1} + 7/432 * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L3r * m83^{\wedge-1} \\
& - 2176/27 * F^{\wedge-3} * \sin x * \sqrt{3} * L5r * L8r * m83^{\wedge-1} - 2176/9 * F^{\wedge-3} * \sin x * \sqrt{3} * L5r * L7r * m83^{\wedge-1} + 128/9 * F^{\wedge-3} * \sin x * \sqrt{3} * L4r * L8r * m83^{\wedge-1} \\
& + 128/3 * F^{\wedge-3} * \sin x * \sqrt{3} * L4r * L7r * m83^{\wedge-1} + 128/9 * F^{\wedge-3} * \sin x * \sqrt{3} * CC33 * m83^{\wedge-1} + 64/9 * F^{\wedge-3} * \sin x * \sqrt{3} * CC32 * m83^{\wedge-1} \\
& + 64/9 * F^{\wedge-3} * \sin x * \sqrt{3} * CC31 * m83^{\wedge-1} + 64/9 * F^{\wedge-3} * \sin x * \sqrt{3} * CC20 * m83^{\wedge-1} + 32/3 * F^{\wedge-3} * \sin x * \sqrt{3} * CC19 * m83^{\wedge-1} \\
& - 224/9 * F^{\wedge-3} * \sin x * \sqrt{3} * CC18 * m83^{\wedge-1} - 224/27 * F^{\wedge-3} * \sin x * \sqrt{3} * CC17 * m83^{\wedge-1} - 224/27 * F^{\wedge-3} * \sin x * \sqrt{3} * CC14 * m83^{\wedge-1} \\
& - 125/62208 * C * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-1} + 2/27 * C * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L8r * m83^{\wedge-1} + 8/9 * C * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L7r * m83^{\wedge-1} \\
& + 2/9 * C * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L5r * m83^{\wedge-1} + 23/34560 * C^{\wedge 2} * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-1} - 7/11520 * C * \ln(1) * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-1} \\
& - 1/288 * C * \ln(1) * F^{\wedge-3} * \sin x^2 * \cos x * \pi^{\wedge-4} * m83^{\wedge-1} - 13/8640 * C * \ln(3) * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-1} - 1/864 * C * \ln(3) * F^{\wedge-3} * \sin x^2 * \cos x * \pi^{\wedge-4} * m83^{\wedge-1} \\
& + 1/432 * C * \ln(3) * F^{\wedge-3} * \sin x^4 * \cos x * \pi^{\wedge-4} * m83^{\wedge-1} - 1/2304 * C * \ln(4) * F^{\wedge-3} * \cos x * \pi^{\wedge-4} * m83^{\wedge-1} - 1/2304 * C * \ln(4) * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-1} \\
& + 1/576 * C * \ln(4) * F^{\wedge-3} * \sin x^2 * \cos x * \pi^{\wedge-4} * m83^{\wedge-1} + 1/1728 * C * \ln(4) * F^{\wedge-3} * \sin x^3 * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-1} + 1/2304 * C * \ln(6) * F^{\wedge-3} * \cos x * \pi^{\wedge-4} * m83^{\wedge-1} \\
& - 23/34560 * C * \ln(6) * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-1} + 1/576 * C * \ln(6) * F^{\wedge-3} * \sin x^2 * \cos x * \pi^{\wedge-4} * m83^{\wedge-1} - 1/1728 * C * \ln(6) * F^{\wedge-3} * \sin x^3 * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-1} \\
& - 5/5184 * C * \ln(8) * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-1} + 1/864 * C * \ln(8) * F^{\wedge-3} * \sin x^2 * \cos x * \pi^{\wedge-4} * m83^{\wedge-1} - 1/432 * C * \ln(8) * F^{\wedge-3} * \sin x^4 * \cos x * \pi^{\wedge-4} * m83^{\wedge-1} \\
& + 61/82944 * \ln(1) * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-4} * m83^{\wedge-1} + 4/27 * \ln(1) * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L8r * m38^{\wedge-1} - 17/27 * \ln(1) * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L8r * m83^{\wedge-1} \\
& + 4/9 * \ln(1) * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L7r * m38^{\wedge-1} - 1/4/3 * \ln(1) * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L7r * m83^{\wedge-1} + 1/9 * \ln(1) * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L6r * m38^{\wedge-1} \\
& - 1/9 * \ln(1) * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L6r * m83^{\wedge-1} + 5/36 * \ln(1) * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L5r * m83^{\wedge-1} - 1/18 * \ln(1) * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L4r * m38^{\wedge-1} \\
& + 1/36 * \ln(1) * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L4r * m83^{\wedge-1} + 1/12 * \ln(1) * F^{\wedge-3} * \sin x * \sqrt{3} * \pi^{\wedge-2} * L3r * m83^{\wedge-1} - 49/20736 * \ln(1) * F^{\wedge-3} * \sin x^2 * \cos x * \pi^{\wedge-4} * m83^{\wedge-1} \\
& - 4/3 * \ln(1) * F^{\wedge-3} * \sin x^2 * \cos x * \pi^{\wedge-2} * L8r * m38^{\wedge-1} - 104/27 * \ln(1) * F^{\wedge-3} * \sin x^2 * \cos x * \pi^{\wedge-2} * L8r * m83^{\wedge-1} - 104/27 * \ln(1) * F^{\wedge-3} * \sin x^2 * \cos x * \pi^{\wedge-2} * L8r * m38^{\wedge-1} - 104/27 * \ln(1) * F^{\wedge-3} * \sin x^2 * \cos x * \pi^{\wedge-2} * L8r * m83^{\wedge-1})
\end{aligned}$$

$$\begin{aligned}
& 3^2 \sin^2 \cos^2 \pi^{-2} L_{8r} m_{83}^{-1} - 32/9 \ln(1) F^{-3} \sin^2 \cos^2 \pi^{-2} L_{7r} m_{38}^{-1} - 88/9 \ln(1) F^{-3} \sin^2 \cos^2 \pi^{-2} L_{7r} m_{83}^{-1} - 4/9 \ln(1) F^{-3} \sin^2 \cos^2 \pi^{-2} L_{6r} m_{38}^{-1} + 20/9 \ln(1) F^{-3} \sin^2 \cos^2 \pi^{-2} L_{6r} m_{83}^{-1} + 2/27 \ln(1) F^{-3} \sin^2 \cos^2 \pi^{-2} L_{5r} m_{38}^{-1} + 17/27 \ln(1) F^{-3} \sin^2 \cos^2 \pi^{-2} L_{5r} m_{83}^{-1} + 2/9 \ln(1) F^{-3} \sin^2 \cos^2 \pi^{-2} L_{4r} m_{38}^{-1} - 7/9 \ln(1) F^{-3} \sin^2 \cos^2 \pi^{-2} L_{4r} m_{83}^{-1} - 1/6 \ln(1) F^{-3} \sin^2 \cos^2 \pi^{-2} L_{3r} m_{83}^{-1} - 1/324 \ln(1) F^{-3} \sin^4 \cos^2 \pi^{-2} L_{8r} m_{38}^{-1} - 32/9 \ln(1) F^{-3} \sin^4 \cos^2 \pi^{-2} L_{8r} m_{83}^{-1} + 64/9 \ln(1) F^{-3} \sin^4 \cos^2 \pi^{-2} L_{7r} m_{38}^{-1} - 32/3 \ln(1) F^{-3} \sin^4 \cos^2 \pi^{-2} L_{7r} m_{83}^{-1} + 23/34560 \ln(1)^2 F^{-3} \sin^2 \sqrt{3} \pi^{-4} m_{83}^{-1} - 1/1728 \ln(1)^2 F^{-3} \sin^2 \cos^2 \pi^{-4} m_{83}^{-1} - 5/41472 \ln(1) \ln(3) F^{-3} \sin^2 \sqrt{3} \pi^{-4} m_{38}^{-1} - 1/5120 \ln(1) \ln(3) F^{-3} \sin^2 \sqrt{3} \pi^{-4} m_{83}^{-1} + 7/6912 \ln(1) \ln(3) F^{-3} \sin^2 \cos^2 \pi^{-4} m_{38}^{-1} - 449/207360 \ln(1) \ln(3) F^{-3} \sin^2 \cos^2 \pi^{-4} m_{83}^{-1} - 1/1296 \ln(1) \ln(3) F^{-3} \sin^4 \cos^2 \pi^{-4} m_{38}^{-1} - 29/5184 \ln(1) \ln(3) F^{-3} \sin^4 \cos^2 \pi^{-4} m_{83}^{-1} - 1/1296 \ln(1) \ln(3) F^{-3} \sin^6 \cos^2 \pi^{-4} m_{38}^{-1} + 17/2592 \ln(1) \ln(3) F^{-3} \sin^6 \cos^2 \pi^{-4} m_{83}^{-1} - 1/9216 \ln(1) \ln(4) F^{-3} \cos^2 \pi^{-4} m_{38}^{-1} - 29/55296 \ln(1) \ln(4) F^{-3} \cos^2 \pi^{-4} m_{83}^{-1} + 5/9216 \ln(1) \ln(4) F^{-3} \sin^2 \sqrt{3} \pi^{-4} m_{38}^{-1} + 107/165888 \ln(1) \ln(4) F^{-3} \sin^2 \sqrt{3} \pi^{-4} m_{83}^{-1} + 1/1152 \ln(1) \ln(4) F^{-3} \sin^2 \cos^2 \pi^{-4} m_{38}^{-1} - 1/1152 \ln(1) \ln(4) F^{-3} \sin^2 \cos^2 \pi^{-4} m_{83}^{-1} - 1/576 \ln(1) \ln(4) F^{-3} \sin^3 \sqrt{3} \pi^{-4} m_{38}^{-1} + 11/20736 \ln(1) \ln(4) F^{-3} \sin^3 \sqrt{3} \pi^{-4} m_{83}^{-1} - 1/432 \ln(1) \ln(4) F^{-3} \sin^4 \cos^2 \pi^{-4} m_{38}^{-1} + 1/288 \ln(1) \ln(4) F^{-3} \sin^4 \cos^2 \pi^{-4} m_{83}^{-1} + 1/864 \ln(1) \ln(4) F^{-3} \sin^5 \sqrt{3} \pi^{-4} m_{38}^{-1} - 1/576 \ln(1) \ln(4) F^{-3} \sin^5 \sqrt{3} \pi^{-4} m_{83}^{-1} + 1/9216 \ln(1) \ln(6) F^{-3} \cos^2 \pi^{-4} m_{38}^{-1} + 29/55296 \ln(1) \ln(6) F^{-3} \cos^2 \pi^{-4} m_{83}^{-1} - 23/27648 \ln(1) \ln(6) F^{-3} \sin^2 \sqrt{3} \pi^{-4} m_{38}^{-1} - 1663/829440 \ln(1) \ln(6) F^{-3} \sin^2 \sqrt{3} \pi^{-4} m_{83}^{-1} + 1/1152 \ln(1) \ln(6) F^{-3} \sin^2 \cos^2 \pi^{-4} m_{38}^{-1} - 1/1152 \ln(1) \ln(6) F^{-3} \sin^2 \cos^2 \pi^{-4} m_{83}^{-1} + 1/576 \ln(1) \ln(6) F^{-3} \sin^3 \sqrt{3} \pi^{-4} m_{38}^{-1} - 11/20736 \ln(1) \ln(6) F^{-3} \sin^3 \sqrt{3} \pi^{-4} m_{83}^{-1} - 1/432 \ln(1) \ln(6) F^{-3} \sin^4 \cos^2 \pi^{-4} m_{38}^{-1} + 1/288 \ln(1) \ln(6) F^{-3} \sin^4 \cos^2 \pi^{-4} m_{83}^{-1} - 1/864 \ln(1) \ln(6) F^{-3} \sin^5 \sqrt{3} \pi^{-4} m_{38}^{-1} - 5/41472 \ln(1) \ln(8) F^{-3} \sin^2 \sqrt{3} \pi^{-4} m_{38}^{-1} + 19/20736 \ln(1) \ln(8) F^{-3} \sin^2 \cos^2 \pi^{-4} m_{38}^{-1} - 871/207360 \ln(1) \ln(8) F^{-3} \sin^2 \cos^2 \pi^{-4} m_{83}^{-1} - 1/432 \ln(1) \ln(8) F^{-3} \sin^4 \cos^2 \pi^{-4} m_{38}^{-1} + 53/5184 \ln(1) \ln(8) F^{-3} \sin^4 \cos^2 \pi^{-4} m_{83}^{-1} + 1/1296 \ln(1) \ln(8) F^{-3} \sin^6 \cos^2 \pi^{-4} m_{38}^{-1} - 17/2592 \ln(1) \ln(8) F^{-3} \sin^6 \cos^2 \pi^{-4} m_{83}^{-1} - 139/162 \ln(3) F^{-3} \sin^2 \sqrt{3} \pi^{-2} L_{8r} m_{83}^{-1} - 46/27 \ln(3) F^{-3} \sin^2 \sqrt{3} \pi^{-2} L_{7r} m_{83}^{-1} - 1/27 \ln(3) F^{-3} \sin^2 \sqrt{3} \pi^{-2} L_{6r} m_{83}^{-1} + 161/648 \ln(3) F^{-3} \sin^2 \sqrt{3} \pi^{-2} L_{5r} m_{83}^{-1} + 1/72 \ln(3) F^{-3} \sin^2 \sqrt{3} \pi^{-2} L_{4r} m_{83}^{-1} + 1/1296 \ln(3) F^{-3} \sin^2 \cos^2 \pi^{-4} m_{83}^{-1} + 4/3 \ln(3) F^{-3} \sin^2 \cos^2 \pi^{-2} L_{8r} m_{83}^{-1} + 16/9 \ln(3) F^{-3} \sin^2 \cos^2 \pi^{-2} L_{7r} m_{83}^{-1} + 8/9 \ln(3) F^{-3} \sin^2 \cos^2 \pi^{-2} L_{6r} m_{83}^{-1} - 7/27 \ln(3) F^{-3} \sin^2 \cos^2 \pi^{-2} L_{5r} m_{83}^{-1} - 1/3 \ln(3) F^{-3} \sin^2 \cos^2 \pi^{-2} L_{4r} m_{83}^{-1} - 1/648 \ln(3) F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^{\sin x^4 \cos x \pi^{-4} m 83^{-1}} + 184/27 \ln(3) F^{-3 \sin x^4 \cos x \pi^{-2} L 8 r^* m 83^{-1}} \\
& 1 + 224/9 \ln(3) F^{-3 \sin x^4 \cos x \pi^{-2} L 7 r^* m 83^{-1}} - 16/9 \ln(3) F^{-3 \sin x^4 \cos x \pi^{-2} L 6 r^* m 83^{-1}} \\
& + 14/27 \ln(3) F^{-3 \sin x^4 \cos x \pi^{-2} L 5 r^* m 83^{-1}} + 2/3 \ln(3) F^{-3 \sin x^4 \cos x \pi^{-2} L 4 r^* m 83^{-1}} - 256/27 \ln(3) F^{-3 \sin x^6 \cos x \pi^{-2} L 8 r^* m 83^{-1}} \\
& - 256/9 \ln(3) F^{-3 \sin x^6 \cos x \pi^{-2} L 7 r^* m 83^{-1}} + 85/248832 \ln(3)^2 F^{-3 \sin x \sqrt{3} \pi^{-4} m 83^{-1}} - 67/82944 \ln(3)^2 F^{-3 \sin x^2 \cos x \pi^{-4} m 83^{-1}} \\
& - 23/5184 \ln(3)^2 F^{-3 \sin x^4 \cos x \pi^{-4} m 83^{-1}} + 31/5184 \ln(3)^2 F^{-3 \sin x^6 \cos x \pi^{-4} m 83^{-1}} + 1/18432 \ln(3) \ln(4) F^{-3 \cos x \pi^{-4} m 38^{-1}} \\
& - 479/829440 \ln(3) \ln(4) F^{-3 \cos x \pi^{-4} m 38^{-1}} + 7/55296 \ln(3) \ln(4) F^{-3 \sin x \sqrt{3} \pi^{-4} m 38^{-1}} + 1181/829440 \ln(3) \ln(4) F^{-3 \sin x \sqrt{3} \pi^{-4} m 83^{-1}} \\
& - 7/13824 \ln(3) \ln(4) F^{-3 \sin x^2 \cos x \pi^{-4} m 83^{-1}} + 929/414720 \ln(3) \ln(4) F^{-3 \sin x^2 \cos x \pi^{-4} m 38^{-1}} \\
& - 41/41472 \ln(3) \ln(4) F^{-3 \sin x^3 \sqrt{3} \pi^{-4} m 38^{-1}} - 361/414720 \ln(3) \ln(4) F^{-3 \sin x^3 \sqrt{3} \pi^{-4} m 83^{-1}} + 1/2592 \ln(3) \ln(4) F^{-3 \sin x^4 \cos x \pi^{-4} m 38^{-1}} \\
& - 91/10368 \ln(3) \ln(4) F^{-3 \sin x^4 \cos x \pi^{-4} m 83^{-1}} + 7/5184 \ln(3) \ln(4) F^{-3 \sin x^5 \sqrt{3} \pi^{-4} m 38^{-1}} - 1/864 \ln(3) \ln(4) F^{-3 \sin x^5 \sqrt{3} \pi^{-4} m 83^{-1}} \\
& + 1/2592 \ln(3) \ln(4) F^{-3 \sin x^6 \cos x \pi^{-4} m 38^{-1}} + 31/5184 \ln(3) \ln(4) F^{-3 \sin x^6 \cos x \pi^{-4} m 83^{-1}} - 1/2592 \ln(3) \ln(4) F^{-3 \sin x^7 \sqrt{3} \pi^{-4} m 38^{-1}} \\
& - 1/18432 \ln(3) \ln(4) F^{-3 \sin x^7 \sqrt{3} \pi^{-4} m 83^{-1}} - 1/18432 \ln(3) \ln(6) F^{-3 \cos x \pi^{-4} m 38^{-1}} + 479/829440 \ln(3) \ln(6) F^{-3 \cos x \pi^{-4} m 83^{-1}} \\
& - 1/165888 \ln(3) \ln(6) F^{-3 \sin x \sqrt{3} \pi^{-4} m 38^{-1}} - 647/276480 \ln(3) \ln(6) F^{-3 \sin x \sqrt{3} \pi^{-4} m 83^{-1}} - 7/13824 \ln(3) \ln(6) F^{-3 \sin x^2 \cos x \pi^{-4} m 38^{-1}} \\
& + 929/414720 \ln(3) \ln(6) F^{-3 \sin x^2 \cos x \pi^{-4} m 83^{-1}} + 41/41472 \ln(3) \ln(6) F^{-3 \sin x^3 \sqrt{3} \pi^{-4} m 38^{-1}} + 361/414720 \ln(3) \ln(6) F^{-3 \sin x^3 \sqrt{3} \pi^{-4} m 83^{-1}} \\
& + 1/2592 \ln(3) \ln(6) F^{-3 \sin x^4 \cos x \pi^{-4} m 38^{-1}} - 91/10368 \ln(3) \ln(6) F^{-3 \sin x^4 \cos x \pi^{-4} m 83^{-1}} + 7/5184 \ln(3) \ln(6) F^{-3 \sin x^5 \sqrt{3} \pi^{-4} m 38^{-1}} \\
& + 1/864 \ln(3) \ln(6) F^{-3 \sin x^5 \sqrt{3} \pi^{-4} m 83^{-1}} + 1/2592 \ln(3) \ln(6) F^{-3 \sin x^6 \cos x \pi^{-4} m 38^{-1}} + 31/5184 \ln(3) \ln(6) F^{-3 \sin x^6 \cos x \pi^{-4} m 83^{-1}} \\
& - 1/2592 \ln(3) \ln(6) F^{-3 \sin x^7 \sqrt{3} \pi^{-4} m 38^{-1}} - 1/31104 \ln(3) \ln(8) F^{-3 \sin x \sqrt{3} \pi^{-4} m 83^{-1}} + 11/41472 \ln(3) \ln(8) F^{-3 \sin x^2 \cos x \pi^{-4} m 83^{-1}} \\
& + 1/1296 \ln(3) \ln(8) F^{-3 \sin x^4 \cos x \pi^{-4} m 83^{-1}} + 1/2592 \ln(3) \ln(8) F^{-3 \sin x^6 \cos x \pi^{-4} m 83^{-1}} - 1/1728 \ln(4) F^{-3 \cos x \pi^{-4} m 83^{-1}} \\
& - 1/108 \ln(4) F^{-3 \cos x \pi^{-2} L 8 r^* m 38^{-1}} - 113/108 \ln(4) F^{-3 \cos x \pi^{-2} L 8 r^* m 83^{-1}} - 22/9 \ln(4) F^{-3 \cos x \pi^{-2} L 7 r^* m 83^{-1}} - 1/36 \ln(4) F^{-3 \cos x \pi^{-2} L 6 r^* m 38^{-1}} \\
& + 11/36 \ln(4) F^{-3 \cos x \pi^{-2} L 6 r^* m 83^{-1}} + 1/216 \ln(4) F^{-3 \cos x \pi^{-2} L 5 r^* m 38^{-1}} + 17/108 \ln(4) F^{-3 \cos x \pi^{-2} L 5 r^* m 83^{-1}} + 1/72 \ln(4) F^{-3 \cos x \pi^{-2} L 4 r^* m 38^{-1}} \\
& - 1/9 \ln(4) F^{-3 \cos x \pi^{-2} L 4 r^* m 83^{-1}} - 1/48 \ln(4) F^{-3 \cos x \pi^{-2} L 3 r^* m 83^{-1}} + 1/1296 \ln(4) F^{-3 \sin x \sqrt{3} \pi^{-4} m 83^{-1}} - 17/108 \ln(4) F^{-3 \sin x \sqrt{3} \pi^{-2} L 8 r^* m 38^{-1}} \\
& + 109/36 \ln(4) F^{-3 \sin x \sqrt{3} \pi^{-2} L 8 r^* m 83^{-1}} - 4/9 \ln(4) F^{-3 \sin x \sqrt{3} \pi^{-2} L 7 r^* m 38^{-1}} + 52/9 \ln(4) F^{-3 \sin x \sqrt{3} \pi^{-2} L 7 r^* m 83^{-1}} \\
& - 1/36 \ln(4) F^{-3 \sin x \sqrt{3} \pi^{-2} L 6 r^* m 38^{-1}} + 11/36 \ln(4) F^{-3 \sin x \sqrt{3} \pi^{-2} L 6 r^* m 83^{-1}} + 1/216 \ln(4) F^{-3 \sin x \sqrt{3} \pi^{-2} L 5 r^* m 38^{-1}} \\
& - 55/108 \ln(4) F^{-3 \sin x \sqrt{3} \pi^{-2} L 5 r^* m 83^{-1}} + 1/72 \ln(4) F^{-3 \sin x \sqrt{3} \pi^{-2} L 4 r^* m 38^{-1}} - 1/9 \ln(4) F^{-3 \sin x \sqrt{3} \pi^{-2} L 4 r^* m 83^{-1}}
\end{aligned}$$

$$\begin{aligned}
& 1 - 1/48*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} + 49/41472*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 2/3*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m38^{-1} + 52/27*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1} + 16/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m38^{-1} + 44/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1} + 2/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m38^{-1} - 10/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1} - 1/27*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m38^{-1} - 17/54*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1} - 1/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m38^{-1} + 7/18*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1} + 1/12*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r*m83^{-1} - 91/41472*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 32/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m38^{-1} - 14/3*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} + 32/9*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m38^{-1} - 92/9*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} - 4/9*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} + 31/54*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} + 1/6*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} + 1/36*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} + 1/648*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 32/27*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m38^{-1} + 16/9*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1} - 32/9*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m38^{-1} + 16/3*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1} + 1/648*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} - 32/27*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m38^{-1} + 16/9*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} - 32/9*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m38^{-1} + 16/3*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} + 1/27648*\ln(4)^2*F^{-3}*\cos x*\pi^{-4}*m38^{-1} - 1/55296*\ln(4)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} - 5/27648*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1} + 1/6144*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/1152*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m38^{-1} + 5/6912*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 1/3456*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1} + 11/20736*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/576*\ln(4)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m38^{-1} - 1/384*\ln(4)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 1/1728*\ln(4)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m38^{-1} - 1/1152*\ln(4)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/13824*\ln(4)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1} + 5/82944*\ln(4)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/1152*\ln(4)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 1/864*\ln(4)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m38^{-1} - 1/576*\ln(4)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 5/165888*\ln(4)*\ln(8)*F^{-3}*\cos x*\pi^{-4}*m38^{-1} - 691/829440*\ln(4)*\ln(8)*F^{-3}*\cos x*\pi^{-4}*m83^{-1} + 5/55296*\ln(4)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1} + 1409/829440*\ln(4)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 19/41472*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m38^{-1} + 391/414720*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 23/41472*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1} - 31/46080*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/864*\ln(4)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m38^{-1} + 67/10368*\ln(4)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 1/5184*\ln(4)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m38^{-1} - 1/864*\ln(4)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/2592*\ln(4)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m38^{-1} - 31/5184*\ln(4)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} + 1/2592*\ln(4)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m38^{-1} - 1/5184*\ln(4)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/1728*\ln(6)*F^{-3}*\cos x*\pi^{-4}*m83^{-1} + 1/108*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L8r*m38^{-1} + 113/108*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L8r*m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& + 22/9*\ln(6)*F^{-3*\cos x*\pi^{-2}*L7r*m83^{-1}} + 1/36*\ln(6)*F^{-3*\cos x*\pi^{-2}*L6r*m38^{-1}} - 11/36*\ln(6)*F^{-3*\cos x*\pi^{-2}*L6r*m83^{-1}} - 1/216*\ln(6)*F^{-3*\cos x*\pi^{-2}*L5r*m38^{-1}} - 17/108*\ln(6)*F^{-3*\cos x*\pi^{-2}*L5r*m83^{-1}} \\
& - 1/72*\ln(6)*F^{-3*\cos x*\pi^{-2}*L4r*m38^{-1}} + 1/9*\ln(6)*F^{-3*\cos x*\pi^{-2}*L4r*m83^{-1}} + 1/48*\ln(6)*F^{-3*\cos x*\pi^{-2}*L3r*m83^{-1}} - 37/41472*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} + 1/108*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m38^{-1}} \\
& - 31/12*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-1}} - 34/9*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1}} - 1/12*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m38^{-1}} - 5/12*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-1}} - 1/216*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m38^{-1}} + 77/108*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1}} \\
& + 1/24*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m38^{-1}} + 1/6*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-1}} + 5/144*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L3r*m83^{-1}} + 49/41472*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + 2/3*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m38^{-1}} + 52/27*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1}} \\
& + 16/9*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m38^{-1}} + 44/9*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1}} + 2/9*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m38^{-1}} - 10/9*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1}} - 1/27*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m38^{-1}} - 17/54*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1}} \\
& - 1/9*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m38^{-1}} + 7/18*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1}} + 1/12*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L3r*m83^{-1}} + 91/41472*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} - 32/27*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m38^{-1}} + 14/3*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-1}} \\
& - 32/9*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m38^{-1}} + 92/9*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-1}} + 4/9*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-1}} - 31/54*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-1}} - 1/6*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-1}} - 1/36*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L3r*m83^{-1}} \\
& + 1/648*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} - 32/27*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m38^{-1}} + 16/9*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1}} - 32/9*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m38^{-1}} + 16/3*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1}} - 1/648*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1}} - 16/9*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m38^{-1}} - 16/9*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m38^{-1}} - 1/27648*\ln(6)^2*F^{-3*\cos x*\pi^{-4}*m38^{-1}} + 1/55296*\ln(6)^2*F^{-3*\cos x*\pi^{-4}*m83^{-1}} + 11/27648*\ln(6)^2*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1}} - 85/165888*\ln(6)^2*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} - 1/1152*\ln(6)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m38^{-1}} + 5/6912*\ln(6)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + 1/3456*\ln(6)^2*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1}} - 11/20736*\ln(6)^2*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} + 1/576*\ln(6)^2*F^{-3*\sin x^4*\cos x*\pi^{-4}*m38^{-1}} - 1/384*\ln(6)^2*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} - 1/1728*\ln(6)^2*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m38^{-1}} + 1/1152*\ln(6)^2*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1}} + 5/165888*\ln(6)*\ln(8)*F^{-3*\cos x*\pi^{-4}*m38^{-1}} + 691/829440*\ln(6)*\ln(8)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} + 5/165888*\ln(6)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1}} - 523/276480*\ln(6)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} - 19/41472*\ln(6)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m38^{-1}} + 391/414720*\ln(6)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + 23/41472*\ln(6)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1}} + 31/46080*\ln(6)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^3 * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + 1/864 * \ln(6) * \ln(8) * F^{\wedge -3} * \sin x^4 * \cos x * \pi^{\wedge -} \\
& 4^* m38^{\wedge -1} + 67/10368 * \ln(6) * \ln(8) * F^{\wedge -3} * \sin x^4 * \cos x * \pi^{\wedge -4} * m83^{\wedge -1} - 1/5184 * \ln(6) * \ln(8) * F^{\wedge -} \\
& 3^* \sin x^5 * \sqrt{3} * \pi^{\wedge -4} * m38^{\wedge -1} + 1/864 * \ln(6) * \ln(8) * F^{\wedge -3} * \sin x^5 * \sqrt{3} * \pi^{\wedge -} \\
& 4^* m83^{\wedge -1} - 1/2592 * \ln(6) * \ln(8) * F^{\wedge -3} * \sin x^6 * \cos x * \pi^{\wedge -4} * m38^{\wedge -1} - 31/5184 * \ln(6) * \ln(8) * F^{\wedge -} \\
& 3^* \sin x^6 * \cos x * \pi^{\wedge -4} * m83^{\wedge -1} - 1/2592 * \ln(6) * \ln(8) * F^{\wedge -3} * \sin x^7 * \sqrt{3} * \pi^{\wedge -} \\
& 4^* m38^{\wedge -1} + 1/5184 * \ln(6) * \ln(8) * F^{\wedge -3} * \sin x^7 * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} - 1/3888 * \ln(8) * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + 7/18 * \ln(8) * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -2} * L8r * m83^{\wedge -1} + \\
& 8/9 * \ln(8) * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -2} * L7r * m83^{\wedge -1} - 1/9 * \ln(8) * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -} \\
& 2^* L6r * m83^{\wedge -1} + 11/648 * \ln(8) * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -2} * L5r * m83^{\wedge -1} + \\
& 1/24 * \ln(8) * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -2} * L4r * m83^{\wedge -1} - 1/1296 * \ln(8) * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -} \\
& 4^* m83^{\wedge -1} - 4/3 * \ln(8) * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -2} * L8r * m83^{\wedge -1} - 16/9 * \ln(8) * F^{\wedge -} \\
& 3^* \sin x^2 * \cos x * \pi^{\wedge -2} * L7r * m83^{\wedge -1} - 8/9 * \ln(8) * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -2} * L6r * m83^{\wedge -} \\
& 1 + 7/27 * \ln(8) * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -2} * L5r * m83^{\wedge -1} + 1/3 * \ln(8) * F^{\wedge -} \\
& 3^* \sin x^2 * \cos x * \pi^{\wedge -2} * L4r * m83^{\wedge -1} + 1/648 * \ln(8) * F^{\wedge -3} * \sin x^4 * \cos x * \pi^{\wedge -} \\
& 4^* m83^{\wedge -1} - 184/27 * \ln(8) * F^{\wedge -3} * \sin x^4 * \cos x * \pi^{\wedge -2} * L8r * m83^{\wedge -1} - 224/9 * \ln(8) * F^{\wedge -} \\
& 3^* \sin x^4 * \cos x * \pi^{\wedge -2} * L7r * m83^{\wedge -1} + 16/9 * \ln(8) * F^{\wedge -3} * \sin x^4 * \cos x * \pi^{\wedge -} \\
& 2^* L6r * m83^{\wedge -1} - 14/27 * \ln(8) * F^{\wedge -3} * \sin x^4 * \cos x * \pi^{\wedge -2} * L5r * m83^{\wedge -1} - 2/3 * \ln(8) * F^{\wedge -} \\
& 3^* \sin x^4 * \cos x * \pi^{\wedge -2} * L4r * m83^{\wedge -1} + 256/27 * \ln(8) * F^{\wedge -3} * \sin x^6 * \cos x * \pi^{\wedge -} \\
& 2^* L8r * m83^{\wedge -1} + 256/9 * \ln(8) * F^{\wedge -3} * \sin x^6 * \cos x * \pi^{\wedge -2} * L7r * m83^{\wedge -1} - 25/248832 * \ln(8)^2 * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + 5/9216 * \ln(8)^2 * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -4} * m83^{\wedge -1} - \\
& 1/192 * \ln(8)^2 * F^{\wedge -3} * \sin x^4 * \cos x * \pi^{\wedge -4} * m83^{\wedge -1} - 11/1728 * \ln(8)^2 * F^{\wedge -} \\
& 3^* \sin x^6 * \cos x * \pi^{\wedge -4} * m83^{\wedge -1} - 1/4096 / (\text{mass}(1)) * \ln(1)^2 * F^{\wedge -3} * \cos x * \pi^{\wedge -4} - \\
& 17/73728 / (\text{mass}(1)) * \ln(1)^2 * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -4} - 1/3840 / (\text{mass}(1)) * \ln(1)^2 * F^{\wedge -} \\
& 3^* \sin x^2 * \cos x * \pi^{\wedge -4} - 1/4096 / (\text{mass}(2)) * \ln(1)^2 * F^{\wedge -3} * \cos x * \pi^{\wedge -4} - 1/8192 / (\text{mass}(2)) * \ln(1)^2 * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -4} - 1/23040 / (\text{mass}(2)) * \ln(1)^2 * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -4} + \\
& 95/221184 / (\text{mass}(3)) * \ln(3)^2 * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -4} - 1/4320 / (\text{mass}(3)) * \ln(3)^2 * F^{\wedge -} \\
& 3^* \sin x^2 * \cos x * \pi^{\wedge -4} + 1/2160 / (\text{mass}(3)) * \ln(3)^2 * F^{\wedge -3} * \sin x^4 * \cos x * \pi^{\wedge -4} - \\
& 1/40960 / (\text{mass}(4)) * \ln(4)^2 * F^{\wedge -3} * \cos x * \pi^{\wedge -4} - 11/122880 / (\text{mass}(4)) * \ln(4)^2 * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -4} + 1/7680 / (\text{mass}(4)) * \ln(4)^2 * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -4} + \\
& 1/9216 / (\text{mass}(4)) * \ln(4)^2 * F^{\wedge -3} * \sin x^3 * \sqrt{3} * \pi^{\wedge -4} + 11/368640 / (\text{mass}(5)) * \ln(4)^2 * F^{\wedge -} \\
& 3^* \cos x * \pi^{\wedge -4} - 31/122880 / (\text{mass}(5)) * \ln(4)^2 * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -4} + \\
& 1/46080 / (\text{mass}(5)) * \ln(4)^2 * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -4} + 1/3456 / (\text{mass}(5)) * \ln(4)^2 * F^{\wedge -} \\
& 3^* \sin x^3 * \sqrt{3} * \pi^{\wedge -4} + 1/40960 / (\text{mass}(6)) * \ln(6)^2 * F^{\wedge -3} * \cos x * \pi^{\wedge -4} + \\
& 47/368640 / (\text{mass}(6)) * \ln(6)^2 * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -4} + 1/7680 / (\text{mass}(6)) * \ln(6)^2 * F^{\wedge -} \\
& 3^* \sin x^2 * \cos x * \pi^{\wedge -4} - 1/9216 / (\text{mass}(6)) * \ln(6)^2 * F^{\wedge -3} * \sin x^3 * \sqrt{3} * \pi^{\wedge -4} - \\
& 11/368640 / (\text{mass}(7)) * \ln(6)^2 * F^{\wedge -3} * \cos x * \pi^{\wedge -4} + 361/1105920 / (\text{mass}(7)) * \ln(6)^2 * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -4} + 1/46080 / (\text{mass}(7)) * \ln(6)^2 * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -4} - \\
& 1/3456 / (\text{mass}(7)) * \ln(6)^2 * F^{\wedge -3} * \sin x^3 * \sqrt{3} * \pi^{\wedge -4} - 1/12288 / (\text{mass}(8)) * \ln(8)^2 * F^{\wedge -} \\
& 3^* \cos x * \pi^{\wedge -4} - 539/3317760 / (\text{mass}(8)) * \ln(8)^2 * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -4} + \\
& 1/4320 / (\text{mass}(8)) * \ln(8)^2 * F^{\wedge -3} * \sin x^2 * \cos x * \pi^{\wedge -4} - 1/2160 / (\text{mass}(8)) * \ln(8)^2 * F^{\wedge -} \\
& 3^* \sin x^4 * \cos x * \pi^{\wedge -4}) \\
& + \text{mud} * \text{mpp}2^2 * \text{mkp}2 * (+ 5/1728 * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + \\
& 5/10368 * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -2} * m83^{\wedge -2} - 39424/27 * F^{\wedge -3} * \sin x * \sqrt{3} * L8r^2 * m83^{\wedge -} \\
& 2 - 24064/3 * F^{\wedge -3} * \sin x * \sqrt{3} * L7r * L8r * m83^{\wedge -2} - 32768/3 * F^{\wedge -3} * \sin x * \sqrt{3} * L7r^2 * m83^{\wedge -} \\
& 2 - 512/9 * F^{\wedge -3} * \sin x * \sqrt{3} * L6r * L8r * m83^{\wedge -2} - 512/3 * F^{\wedge -3} * \sin x * \sqrt{3} * L6r * L7r * m83^{\wedge -}
\end{aligned}$$

$$\begin{aligned}
& 2 - 2816/27F^{-3}\sin x \sqrt{3} L5r L8r m83^{-2} - 2816/9F^{-3}\sin x \sqrt{3} L5r L7r m83^{-2} \\
& + 256/9F^{-3}\sin x \sqrt{3} L4r L8r m83^{-2} + 256/3F^{-3}\sin x \sqrt{3} L4r L7r m83^{-2} \\
& + 57344/3F^{-3}\sin x^2 \cos x L8r^2 m83^{-2} + 1040384/9F^{-3}\sin x^2 \cos x L7r L8r m83^{-2} \\
& + 524288/3F^{-3}\sin x^2 \cos x L7r^2 m83^{-2} - 8192/9F^{-3}\sin x^2 \cos x L6r L8r m83^{-2} \\
& - 8192/3F^{-3}\sin x^2 \cos x L6r L7r m83^{-2} + 4096/27F^{-3}\sin x^2 \cos x L5r L8r m83^{-2} \\
& + 4096/9F^{-3}\sin x^2 \cos x L5r L7r m83^{-2} + 4096/9F^{-3}\sin x^2 \cos x L4r L8r m83^{-2} \\
& + 4096/3F^{-3}\sin x^2 \cos x L4r L7r m83^{-2} - 262144/9F^{-3}\sin x^4 \cos x L8r^2 m83^{-2} \\
& - 524288/3F^{-3}\sin x^4 \cos x L7r L8r m83^{-2} - 262144F^{-3}\sin x^4 \cos x L7r^2 m83^{-2} \\
& + 16/9C^*F^{-3}\sin x \sqrt{3} \pi^{-2} L8r m83^{-2} + 16/3C^*F^{-3}\sin x \sqrt{3} \pi^{-2} L7r m83^{-2} \\
& + 1/648C^*\ln(1)F^{-3}\sin x \sqrt{3} \pi^{-4} m83^{-2} - 5/5184C^*\ln(3)F^{-3}\sin x \sqrt{3} \pi^{-4} m83^{-2} \\
& + 1/324C^*\ln(3)F^{-3}\sin x^2 \cos x \pi^{-4} m83^{-2} - 1/1728C^*\ln(4)F^{-3}\cos x \pi^{-4} m83^{-2} \\
& + 5/5184C^*\ln(4)F^{-3}\sin x \sqrt{3} \pi^{-4} m83^{-2} + 1/1728C^*\ln(6)F^{-3}\cos x \pi^{-4} m83^{-2} \\
& - 31/5184C^*\ln(6)F^{-3}\sin x \sqrt{3} \pi^{-4} m83^{-2} - 7/5184C^*\ln(8)F^{-3}\sin x \sqrt{3} \pi^{-4} m83^{-2} \\
& - 1/324C^*\ln(8)F^{-3}\sin x^2 \cos x \pi^{-4} m83^{-2} + 22/81\ln(1)F^{-3}\sin x \sqrt{3} \pi^{-2} L8r m83^{-2} \\
& + 34/27\ln(1)F^{-3}\sin x \sqrt{3} \pi^{-2} L7r m83^{-2} - 2/9\ln(1)F^{-3}\sin x \sqrt{3} \pi^{-2} L6r m83^{-2} \\
& - 7/27\ln(1)F^{-3}\sin x \sqrt{3} \pi^{-2} L4r m83^{-2} - 496/27\ln(1)F^{-3}\sin x^2 \cos x \pi^{-2} L8r m83^{-2} \\
& - 160/3\ln(1)F^{-3}\sin x^2 \cos x \pi^{-2} L7r m83^{-2} - 16/9\ln(1)F^{-3}\sin x^2 \cos x \pi^{-2} L6r m83^{-2} \\
& + 8/27\ln(1)F^{-3}\sin x^2 \cos x \pi^{-2} L5r m83^{-2} + 8/9\ln(1)F^{-3}\sin x^2 \cos x \pi^{-2} L4r m83^{-2} \\
& + 128/9\ln(1)F^{-3}\sin x^4 \cos x \pi^{-2} L8r m83^{-2} + 128/3\ln(1)F^{-3}\sin x^4 \cos x \pi^{-2} L7r m83^{-2} \\
& + 1/2592\ln(1)^2 F^{-3}\sin x \sqrt{3} \pi^{-4} m83^{-2} - 1/5184\ln(1)^2 \ln(3)F^{-3}\sin x \sqrt{3} \pi^{-4} m83^{-2} \\
& + 1/162\ln(1)^2 \ln(3)F^{-3}\sin x^2 \cos x \pi^{-4} m83^{-2} + 11/648\ln(1)^2 \ln(3)F^{-3}\sin x^4 \cos x \pi^{-4} m83^{-2} \\
& - 1/54\ln(1)^2 \ln(3)F^{-3}\sin x^6 \cos x \pi^{-4} m83^{-2} - 7/13824\ln(1)^2 \ln(4)F^{-3}\cos x \pi^{-4} m83^{-2} \\
& - 13/4608\ln(1)^2 \ln(4)F^{-3}\sin x \sqrt{3} \pi^{-4} m83^{-2} + 7/432\ln(1)^2 \ln(4)F^{-3}\sin x^2 \cos x \pi^{-4} m83^{-2} \\
& + 7/432\ln(1)^2 \ln(4)F^{-3}\sin x^3 \sqrt{3} \pi^{-4} m83^{-2} - 1/72\ln(1)^2 \ln(4)F^{-3}\sin x^4 \cos x \pi^{-4} m83^{-2} \\
& - 1/72\ln(1)^2 \ln(4)F^{-3}\sin x^5 \sqrt{3} \pi^{-4} m83^{-2} + 7/13824\ln(1)^2 \ln(6)F^{-3}\cos x \pi^{-4} m83^{-2} \\
& + 59/41472\ln(1)^2 \ln(6)F^{-3}\sin x \sqrt{3} \pi^{-4} m83^{-2} + 7/432\ln(1)^2 \ln(6)F^{-3}\sin x^2 \cos x \pi^{-4} m83^{-2} \\
& - 7/432\ln(1)^2 \ln(6)F^{-3}\sin x^3 \sqrt{3} \pi^{-4} m83^{-2} + 1/72\ln(1)^2 \ln(6)F^{-3}\sin x^4 \cos x \pi^{-4} m83^{-2} \\
& + 1/15552\ln(1)^2 \ln(8)F^{-3}\sin x \sqrt{3} \pi^{-4} m83^{-2} + 1/54\ln(1)^2 \ln(8)F^{-3}\sin x^2 \cos x \pi^{-4} m83^{-2} \\
& - 23/648\ln(1)^2 \ln(8)F^{-3}\sin x^4 \cos x \pi^{-4} m83^{-2} + 1/54\ln(1)^2 \ln(8)F^{-3}\sin x^6 \cos x \pi^{-4} m83^{-2} \\
& + 127/81\ln(3)F^{-3}\sin x \sqrt{3} \pi^{-2} L8r m83^{-2} + 13/3\ln(3)F^{-3}\sin x \sqrt{3} \pi^{-2} L7r m83^{-2} \\
& - 1/27\ln(3)F^{-3}\sin x \sqrt{3} \pi^{-2} L6r m83^{-2} + 2/27\ln(3)F^{-3}\sin x \sqrt{3} \pi^{-2} L5r m83^{-2} \\
& - 1/54\ln(3)F^{-3}\sin x \sqrt{3} \pi^{-2} L4r m83^{-2} - 208/9\ln(3)F^{-3}\sin x^2 \cos x \pi^{-2} L8r m83^{-2} \\
& - 1840/27\ln(3)F^{-3}\sin x^2 \cos x \pi^{-2} L7r m83^{-2} - 16/27\ln(3)F^{-3}\sin x^2 \cos x \pi^{-2} L6r m83^{-2} \\
& - 8/27\ln(3)F^{-3}\sin x^2 \cos x \pi^{-2} L4r m83^{-2} + 1312/81\ln(3)F^{-3}\sin x^4 \cos x \pi^{-2} L8r m83^{-2} \\
& + 1280/27\ln(3)F^{-3}\sin x^4 \cos x \pi^{-2} L7r m83^{-2} + 32/27\ln(3)F^{-3}\sin x^4 \cos x \pi^{-2} L6r m83^{-2} \\
& - 16/81\ln(3)F^{-3}\sin x^4 \cos x \pi^{-2} L5r m83^{-2} - 16/27\ln(3)F^{-3}\sin x^4 \cos x \pi^{-2} L4r m83^{-2} \\
& + 512/27\ln(3)F^{-3}\sin x^4 \cos x \pi^{-2} L4r m83^{-2} + 512/27\ln(3)F^{-3}\sin x^4 \cos x \pi^{-2} L4r m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^6 * \cos x * \pi^{-2} * L8r * m83^{-2} + 512/9 * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^{-} \\
& 2 * L7r * m83^{-2} - 7/15552 * \ln(3)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} + 49/7776 * \ln(3)^2 * F^{-} \\
& 3 * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 1/162 * \ln(3)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-} \\
& 2 - 11/486 * \ln(3)^2 * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} + 1/162 * \ln(3)^2 * F^{-} \\
& 3 * \sin x^8 * \cos x * \pi^{-4} * m83^{-2} - 37/27648 * \ln(3) * \ln(4) * F^{-3} * \cos x * \pi^{-4} * m83^{-2} \\
& + 313/248832 * \ln(3) * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} + 11/576 * \ln(3) * \ln(4) * F^{-} \\
& 3 * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 47/5184 * \ln(3) * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-} \\
& 4 * m83^{-2} - 5/216 * \ln(3) * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} - 41/1944 * \ln(3) * \ln(4) * F^{-} \\
& 3 * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/108 * \ln(3) * \ln(4) * F^{-3} * \sin x^6 * \cos x * \pi^{-} \\
& 4 * m83^{-2} + 1/108 * \ln(3) * \ln(4) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-2} + 37/27648 * \ln(3) * \ln(6) * F^{-} \\
& 3 * \cos x * \pi^{-4} * m83^{-2} - 967/248832 * \ln(3) * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& + 11/576 * \ln(3) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 47/5184 * \ln(3) * \ln(6) * F^{-} \\
& 3 * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} - 5/216 * \ln(3) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-} \\
& 4 * m83^{-2} + 41/1944 * \ln(3) * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/108 * \ln(3) * \ln(6) * F^{-} \\
& 3 * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} - 1/108 * \ln(3) * \ln(6) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-} \\
& 4 * m83^{-2} - 35/31104 * \ln(3) * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} + 23/1296 * \ln(3) * \ln(8) * F^{-} \\
& 3 * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 11/324 * \ln(3) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-} \\
& 4 * m83^{-2} + 5/243 * \ln(3) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} - 1/81 * \ln(3) * \ln(8) * F^{-} \\
& 3 * \sin x^8 * \cos x * \pi^{-4} * m83^{-2} + 95/54 * \ln(4) * F^{-3} * \cos x * \pi^{-2} * L8r * m83^{-2} \\
& + 16/3 * \ln(4) * F^{-3} * \cos x * \pi^{-2} * L7r * m83^{-2} - 1/6 * \ln(4) * F^{-3} * \cos x * \pi^{-} \\
& 2 * L6r * m83^{-2} + 5/108 * \ln(4) * F^{-3} * \cos x * \pi^{-2} * L5r * m83^{-2} + 7/36 * \ln(4) * F^{-} \\
& 3 * \cos x * \pi^{-2} * L4r * m83^{-2} - 127/54 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} - \\
& 20/3 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} - 1/18 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-} \\
& 2 * L6r * m83^{-2} - 5/108 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L5r * m83^{-2} - 1/108 * \ln(4) * F^{-} \\
& 3 * \sin x * \sqrt{3} * \pi^{-2} * L4r * m83^{-2} - 784/27 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-} \\
& 2 * L8r * m83^{-2} - 800/9 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-2} + 16/9 * \ln(4) * F^{-} \\
& 3 * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-2} - 8/27 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-} \\
& 2 * L5r * m83^{-2} - 8/9 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-2} - 224/81 * \ln(4) * F^{-} \\
& 3 * \sin x^3 * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} - 224/27 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-} \\
& 2 * L7r * m83^{-2} + 448/9 * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-2} + \\
& 448/3 * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-2} + 64/9 * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-} \\
& 2 * L8r * m83^{-2} + 64/3 * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} - 11/6912 * \ln(4)^2 * F^{-} \\
& 3 * \cos x * \pi^{-4} * m83^{-2} + 173/41472 * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& + 7/432 * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 7/1296 * \ln(4)^2 * F^{-} \\
& 3 * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/36 * \ln(4)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} \\
& - 1/6912 * \ln(4) * \ln(6) * F^{-3} * \cos x * \pi^{-4} * m83^{-2} - 25/20736 * \ln(4) * \ln(6) * F^{-} \\
& 3 * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} + 5/432 * \ln(4) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-} \\
& 4 * m83^{-2} - 1/36 * \ln(4) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} - 73/82944 * \ln(4) * \ln(8) * F^{-} \\
& 3 * \cos x * \pi^{-4} * m83^{-2} + 455/248832 * \ln(4) * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-} \\
& 2 + 31/1728 * \ln(4) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 85/15552 * \ln(4) * \ln(8) * F^{-} \\
& 3 * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/24 * \ln(4) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-} \\
& 4 * m83^{-2} + 23/1944 * \ln(4) * \ln(8) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} + \\
& 1/108 * \ln(4) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} - 1/108 * \ln(4) * \ln(8) * F^{-} \\
& 3 * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-2} - 95/54 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L8r * m83^{-2} \\
& - 16/3 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L7r * m83^{-2} + 1/6 * \ln(6) * F^{-3} * \cos x * \pi^{-} \\
& 2 * L6r * m83^{-2} - 5/108 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L5r * m83^{-2} - 7/36 * \ln(6) * F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^* \cos x^* \pi^{\wedge -2} * L4r^* m83^{\wedge -2} + 1171/162 * \ln(6)^* F^{\wedge -3} * \sin x^* \sqrt{3}^* \pi^{\wedge -2} * L8r^* m83^{\wedge -} \\
& 2 + 524/27 * \ln(6)^* F^{\wedge -3} * \sin x^* \sqrt{3}^* \pi^{\wedge -2} * L7r^* m83^{\wedge -2} + 7/18 * \ln(6)^* F^{\wedge -} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge -2} * L6r^* m83^{\wedge -2} + 1/4 * \ln(6)^* F^{\wedge -3} * \sin x^* \sqrt{3}^* \pi^{\wedge -2} * L5r^* m83^{\wedge -} \\
& 2 + 23/108 * \ln(6)^* F^{\wedge -3} * \sin x^* \sqrt{3}^* \pi^{\wedge -2} * L4r^* m83^{\wedge -2} - 784/27 * \ln(6)^* F^{\wedge -} \\
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L8r^* m83^{\wedge -2} - 800/9 * \ln(6)^* F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 2 * L7r^* m83^{\wedge -2} + 16/9 * \ln(6)^* F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L6r^* m83^{\wedge -2} - 8/27 * \ln(6)^* F^{\wedge -} \\
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L5r^* m83^{\wedge -2} - 8/9 * \ln(6)^* F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L4r^* m83^{\wedge -} \\
& 2 + 224/81 * \ln(6)^* F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge -2} * L8r^* m83^{\wedge -2} + 224/27 * \ln(6)^* F^{\wedge -} \\
& 3^* \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge -2} * L7r^* m83^{\wedge -2} + 448/9 * \ln(6)^* F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -} \\
& 2 * L8r^* m83^{\wedge -2} + 448/3 * \ln(6)^* F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L7r^* m83^{\wedge -2} - 64/9 * \ln(6)^* F^{\wedge -} \\
& 3^* \sin x^{\wedge 5} * \sqrt{3}^* \pi^{\wedge -2} * L8r^* m83^{\wedge -2} - 64/3 * \ln(6)^* F^{\wedge -3} * \sin x^{\wedge 5} * \sqrt{3}^* \pi^{\wedge -2} * L7r^* m83^{\wedge -2} + 1/576 * \ln(6)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 89/13824 * \ln(6)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge -4} * m83^{\wedge -2} + 7/432 * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} \\
& + 7/1296 * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge -4} * m83^{\wedge -2} - 1/36 * \ln(6)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 73/82944 * \ln(6)^* \ln(8)^* F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} \\
& - 1417/248832 * \ln(6)^* \ln(8)^* F^{\wedge -3} * \sin x^* \sqrt{3}^* \pi^{\wedge -4} * m83^{\wedge -2} + 31/1728 * \ln(6)^* \ln(8)^* F^{\wedge -} \\
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 85/15552 * \ln(6)^* \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge -} \\
& 4 * m83^{\wedge -2} - 1/24 * \ln(6)^* \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 23/1944 * \ln(6)^* \ln(8)^* F^{\wedge -} \\
& 3^* \sin x^{\wedge 5} * \sqrt{3}^* \pi^{\wedge -4} * m83^{\wedge -2} + 1/108 * \ln(6)^* \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -} \\
& 4 * m83^{\wedge -2} + 1/108 * \ln(6)^* \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 7} * \sqrt{3}^* \pi^{\wedge -4} * m83^{\wedge -2} + 61/27 * \ln(8)^* F^{\wedge -} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge -2} * L8r^* m83^{\wedge -2} + 167/27 * \ln(8)^* F^{\wedge -3} * \sin x^* \sqrt{3}^* \pi^{\wedge -} \\
& 2 * L7r^* m83^{\wedge -2} + 1/9 * \ln(8)^* F^{\wedge -3} * \sin x^* \sqrt{3}^* \pi^{\wedge -2} * L6r^* m83^{\wedge -2} + 5/81 * \ln(8)^* F^{\wedge -} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge -2} * L5r^* m83^{\wedge -2} - 1/54 * \ln(8)^* F^{\wedge -3} * \sin x^* \sqrt{3}^* \pi^{\wedge -2} * L4r^* m83^{\wedge -} \\
& 2 - 2128/81 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L8r^* m83^{\wedge -2} - 2192/27 * \ln(8)^* F^{\wedge -} \\
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L7r^* m83^{\wedge -2} + 16/9 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 2 * L6r^* m83^{\wedge -2} - 16/81 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L5r^* m83^{\wedge -2} - 8/27 * \ln(8)^* F^{\wedge -} \\
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L4r^* m83^{\wedge -2} + 4832/81 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -} \\
& 2 * L8r^* m83^{\wedge -2} + 4864/27 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L7r^* m83^{\wedge -2} \\
& - 32/27 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L6r^* m83^{\wedge -2} + 16/81 * \ln(8)^* F^{\wedge -} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L5r^* m83^{\wedge -2} + 16/27 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -} \\
& 2 * L4r^* m83^{\wedge -2} - 512/27 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -2} * L8r^* m83^{\wedge -2} - 512/9 * \ln(8)^* F^{\wedge -} \\
& 3^* \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -2} * L7r^* m83^{\wedge -2} - 29/31104 * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^* \sqrt{3}^* \pi^{\wedge -} \\
& 4 * m83^{\wedge -2} + 61/7776 * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 7/324 * \ln(8)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 1/486 * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -} \\
& 2 + 1/162 * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 8} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 23/46080 / (\text{mass}(1)) * \ln(1)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge -4} * m83^{\wedge -1} + 5/2304 / (\text{mass}(1)) * \ln(1)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 4 * m83^{\wedge -1} + 23/46080 / (\text{mass}(2)) * \ln(1)^{\wedge 2} * F^{\wedge -3} * \sin x^* \sqrt{3}^* \pi^{\wedge -4} * m83^{\wedge -1} + \\
& 5/2304 / (\text{mass}(2)) * \ln(1)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 223/622080 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge -4} * m83^{\wedge -1} - 91/38880 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 4 * m83^{\wedge -1} - 1/243 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - \\
& 347/221184 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 1681/221184 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge -4} * m83^{\wedge -1} - 19/3456 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 4 * m83^{\wedge -1} - 61/6912 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge -4} * m83^{\wedge -1} - \\
& 347/221184 / (\text{mass}(5)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 1681/221184 / (\text{mass}(5)) * \ln(4)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge -4} * m83^{\wedge -1} - 19/3456 / (\text{mass}(5)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 4 * m83^{\wedge -1} - 61/6912 / (\text{mass}(5)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge -4} * m83^{\wedge -1} +
\end{aligned}$$

$$\begin{aligned}
& 347/221184/(\text{mass}(6))^{\ln(6)^2 F^{-3} \cos x \pi^{-4} m83^{-1}} - 1103/122880/(\text{mass}(6))^{\ln(6)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1}} - 19/3456/(\text{mass}(6))^{\ln(6)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1}} + 61/6912/(\text{mass}(6))^{\ln(6)^2 F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-1}} + \\
& 347/221184/(\text{mass}(7))^{\ln(6)^2 F^{-3} \cos x \pi^{-4} m83^{-1}} - 3469/368640/(\text{mass}(7))^{\ln(6)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1}} - 19/3456/(\text{mass}(7))^{\ln(6)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1}} + 61/6912/(\text{mass}(7))^{\ln(6)^2 F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-1}} - \\
& 1397/622080/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1}} - 329/38880/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1}} + 1/243/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-1}} \\
& + \text{mud}^* \text{mpp}2^2 \text{mkp}2^2 * (- 1/5184/(\text{mass}(1))^{\ln(1)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2}} + 31/31104/(\text{mass}(3))^{\ln(3)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2}} - \\
& 5/1944/(\text{mass}(3))^{\ln(3)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2}} + 1/3456/(\text{mass}(4))^{\ln(4)^2 F^{-3} \cos x \pi^{-4} m83^{-2}} - 5/10368/(\text{mass}(4))^{\ln(4)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2}} - 1/3456/(\text{mass}(6))^{\ln(6)^2 F^{-3} \cos x \pi^{-4} m83^{-2}} + 49/10368/(\text{mass}(6))^{\ln(6)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2}} + 17/31104/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2}} + 5/1944/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2}}) \\
& + \text{mud}^* \text{mpp}2^3 * (- 5/2592 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 5/15552 F^{-3} \sin x \sqrt{3} \pi^{-2} m83^{-2} + 14848/27 F^{-3} \sin x \sqrt{3} L8r^2 m83^{-2} + 77312/27 F^{-3} \sin x \sqrt{3} L7r^* L8r^* m83^{-2} + 32768/9 F^{-3} \sin x \sqrt{3} L7r^2 m83^{-2} + 2560/27 F^{-3} \sin x \sqrt{3} L6r^* L8r^* m83^{-2} + 2560/9 F^{-3} \sin x \sqrt{3} L6r^* L7r^* m83^{-2} + 3328/81 F^{-3} \sin x \sqrt{3} L5r^* L8r^* m83^{-2} + 3328/27 F^{-3} \sin x \sqrt{3} L5r^* L7r^* m83^{-2} + 1792/27 F^{-3} \sin x \sqrt{3} L4r^* L8r^* m83^{-2} + 1792/9 F^{-3} \sin x \sqrt{3} L4r^* L7r^* m83^{-2} - 57344/9 F^{-3} \sin x^2 \cos x L8r^2 m83^{-2} - 1040384/27 F^{-3} \sin x^2 \cos x L7r^* L8r^* m83^{-2} - 524288/9 F^{-3} \sin x^2 \cos x L7r^2 m83^{-2} + 8192/27 F^{-3} \sin x^2 \cos x L6r^* L8r^* m83^{-2} + 8192/9 F^{-3} \sin x^2 \cos x L6r^* L7r^* m83^{-2} - 4096/81 F^{-3} \sin x^2 \cos x L5r^* L8r^* m83^{-2} - 4096/27 F^{-3} \sin x^2 \cos x L5r^* L7r^* m83^{-2} - 4096/27 F^{-3} \sin x^2 \cos x L4r^* L8r^* m83^{-2} - 4096/9 F^{-3} \sin x^2 \cos x L4r^* L7r^* m83^{-2} + 262144/27 F^{-3} \sin x^4 \cos x L8r^2 m83^{-2} + 524288/9 F^{-3} \sin x^4 \cos x L7r^* L8r^* m83^{-2} + 262144/3 F^{-3} \sin x^4 \cos x L7r^2 m83^{-2} - 32/27 C^* F^{-3} \sin x \sqrt{3} \pi^{-2} L8r^* m83^{-2} - 32/9 C^* F^{-3} \sin x \sqrt{3} \pi^{-2} L7r^* m83^{-2} + 1/648 C^* \ln(1)^* F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} + 5/7776 C^* \ln(3)^* F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 1/972 C^* \ln(3)^* F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} + 1/1296 C^* \ln(6)^* F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} + 7/7776 C^* \ln(8)^* F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} + 1/972 C^* \ln(8)^* F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} - 65/81 \ln(1)^* F^{-3} \sin x \sqrt{3} \pi^{-2} L8r^* m83^{-2} - 50/27 \ln(1)^* F^{-3} \sin x \sqrt{3} \pi^{-2} L7r^* m83^{-2} - 1/9 \ln(1)^* F^{-3} \sin x \sqrt{3} \pi^{-2} L6r^* m83^{-2} - 1/18 \ln(1)^* F^{-3} \sin x \sqrt{3} \pi^{-2} L5r^* m83^{-2} - 5/54 \ln(1)^* F^{-3} \sin x \sqrt{3} \pi^{-2} L4r^* m83^{-2} + 344/27 \ln(1)^* F^{-3} \sin x^2 \cos x \pi^{-2} L8r^* m83^{-2} + 352/9 \ln(1)^* F^{-3} \sin x^2 \cos x \pi^{-2} L7r^* m83^{-2} - 8/9 \ln(1)^* F^{-3} \sin x^2 \cos x \pi^{-2} L6r^* m83^{-2} + 4/27 \ln(1)^* F^{-3} \sin x^2 \cos x \pi^{-2} L5r^* m83^{-2} + 4/9 \ln(1)^* F^{-3} \sin x^2 \cos x \pi^{-2} L4r^* m83^{-2} - 128/9 \ln(1)^* F^{-3} \sin x^4 \cos x \pi^{-2} L8r^* m83^{-2} - 128/3 \ln(1)^* F^{-3} \sin x^4 \cos x \pi^{-2} L7r^* m83^{-2} + 1/20736 \ln(1)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 1/432 \ln(1)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} + 1/2304 \ln(1)^* \ln(3)^* F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 77/10368 \ln(1)^* \ln(3)^* F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} + 11/2592 \ln(1)^* \ln(3)^* F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-2} + 1/216 \ln(1)^* \ln(3)^* F^{-3} \sin x^6 \cos x \pi^{-4} m83^{-2} + 19/13824 \ln(1)^* \ln(4)^* F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^* \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 47/41472 * \ln(1) * \ln(4) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - \\
& 19/1728 * \ln(1) * \ln(4) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 1/576 * \ln(1) * \ln(4) * F^{\wedge -} \\
& 3^* \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + 1/72 * \ln(1) * \ln(4) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} - 19/13824 * \ln(1) * \ln(6) * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 95/41472 * \ln(1) * \ln(6) * F^{\wedge -} \\
& 3^* \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - 19/1728 * \ln(1) * \ln(6) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} - 1/576 * \ln(1) * \ln(6) * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + 1/72 * \ln(1) * \ln(6) * F^{\wedge -} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 41/62208 * \ln(1) * \ln(8) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} - 91/10368 * \ln(1) * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 37/2592 * \ln(1) * \ln(8) * F^{\wedge -} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 1/216 * \ln(1) * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} - 301/486 * \ln(3) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -2} * L8r * m83^{\wedge -2} - 131/81 * \ln(3) * F^{\wedge -} \\
& 3^* \sin x^* \sqrt{3} * \pi^{\wedge -2} * L7r * m83^{\wedge -2} - 13/162 * \ln(3) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -2} * L6r * m83^{\wedge -} \\
& 2 - 13/972 * \ln(3) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -2} * L5r * m83^{\wedge -2} - 5/108 * \ln(3) * F^{\wedge -} \\
& 3^* \sin x^* \sqrt{3} * \pi^{\wedge -2} * L4r * m83^{\wedge -2} + 236/27 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 2 * L8r * m83^{\wedge -2} + 2128/81 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L7r * m83^{\wedge -2} \\
& - 20/81 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L6r * m83^{\wedge -2} + 2/27 * \ln(3) * F^{\wedge -} \\
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L5r * m83^{\wedge -2} + 26/81 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 2 * L4r * m83^{\wedge -2} - 3928/243 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L8r * m83^{\wedge -2} - \\
& 3968/81 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L7r * m83^{\wedge -2} + 40/81 * \ln(3) * F^{\wedge -} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L6r * m83^{\wedge -2} - 20/243 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -} \\
& 2 * L5r * m83^{\wedge -2} - 20/81 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L4r * m83^{\wedge -2} + 256/81 * \ln(3) * F^{\wedge -} \\
& 3^* \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -2} * L8r * m83^{\wedge -2} + 256/27 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -} \\
& 2 * L7r * m83^{\wedge -2} + 139/746496 * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - \\
& 259/93312 * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 77/15552 * \ln(3)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 1/729 * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -} \\
& 2 - 1/486 * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 8} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 101/248832 * \ln(3) * \ln(4) * F^{\wedge -} \\
& 3^* \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 769/746496 * \ln(3) * \ln(4) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} \\
& - 319/62208 * \ln(3) * \ln(4) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 175/62208 * \ln(3) * \ln(4) * F^{\wedge -} \\
& 3^* \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + 55/3888 * \ln(3) * \ln(4) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} - 1/1458 * \ln(3) * \ln(4) * F^{\wedge -3} * \sin x^{\wedge 5} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - 7/1296 * \ln(3) * \ln(4) * F^{\wedge -} \\
& 3^* \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 1/1296 * \ln(3) * \ln(4) * F^{\wedge -3} * \sin x^{\wedge 7} * \sqrt{3} * \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} - 101/248832 * \ln(3) * \ln(6) * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 1237/746496 * \ln(3) * \ln(6) * F^{\wedge -} \\
& 3^* \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - 319/62208 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} - 175/62208 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + \\
& 55/3888 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 1/1458 * \ln(3) * \ln(6) * F^{\wedge -} \\
& 3^* \sin x^{\wedge 5} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - 7/1296 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} + 1/1296 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^{\wedge 7} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + 175/373248 * \ln(3) * \ln(8) * F^{\wedge -} \\
& 3^* \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - 89/15552 * \ln(3) * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} + 85/7776 * \ln(3) * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 5/729 * \ln(3) * \ln(8) * F^{\wedge -} \\
& 3^* \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 1/243 * \ln(3) * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 8} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} - 115/162 * \ln(4) * F^{\wedge -3} * \cos x^* \pi^{\wedge -2} * L8r * m83^{\wedge -2} - 56/27 * \ln(4) * F^{\wedge -} \\
& 3^* \cos x^* \pi^{\wedge -2} * L7r * m83^{\wedge -2} - 1/18 * \ln(4) * F^{\wedge -3} * \cos x^* \pi^{\wedge -2} * L6r * m83^{\wedge -2} + \\
& 1/108 * \ln(4) * F^{\wedge -3} * \cos x^* \pi^{\wedge -2} * L5r * m83^{\wedge -2} + 1/36 * \ln(4) * F^{\wedge -3} * \cos x^* \pi^{\wedge -} \\
& 2 * L4r * m83^{\wedge -2} + 635/486 * \ln(4) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -2} * L8r * m83^{\wedge -2} + \\
& 328/81 * \ln(4) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -2} * L7r * m83^{\wedge -2} - 7/54 * \ln(4) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -} \\
& 2 * L6r * m83^{\wedge -2} + 7/324 * \ln(4) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -2} * L5r * m83^{\wedge -2} + 7/108 * \ln(4) * F^{\wedge -} \\
& 3^* \sin x^* \sqrt{3} * \pi^{\wedge -2} * L4r * m83^{\wedge -2} + 172/27 * \ln(4) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -}
\end{aligned}$$

$$\begin{aligned}
& 2^*L8r^*m83^{\wedge}2 + 512/27*\ln(4)*F^{\wedge}3*\sinx^2*\cosx*\pi^{\wedge}2*L7r^*m83^{\wedge}2 + \\
& 4/27*\ln(4)*F^{\wedge}3*\sinx^2*\cosx*\pi^{\wedge}2*L6r^*m83^{\wedge}2 - 2/81*\ln(4)*F^{\wedge}3*\sinx^2*\cosx*\pi^{\wedge}2 \\
& 2^*L5r^*m83^{\wedge}2 - 2/27*\ln(4)*F^{\wedge}3*\sinx^2*\cosx*\pi^{\wedge}2*L4r^*m83^{\wedge}2 - 1012/243*\ln(4)*F^{\wedge}3 \\
& 3*\sinx^3*\sqrt{3}*\pi^{\wedge}2*L8r^*m83^{\wedge}2 - 1024/81*\ln(4)*F^{\wedge}3*\sinx^3*\sqrt{3}*\pi^{\wedge}2 \\
& 2^*L7r^*m83^{\wedge}2 + 4/27*\ln(4)*F^{\wedge}3*\sinx^3*\sqrt{3}*\pi^{\wedge}2*L6r^*m83^{\wedge}2 - 2/81*\ln(4)*F^{\wedge}3 \\
& 3*\sinx^3*\sqrt{3}*\pi^{\wedge}2*L5r^*m83^{\wedge}2 - 2/27*\ln(4)*F^{\wedge}3*\sinx^3*\sqrt{3}*\pi^{\wedge}2 \\
& 2^*L4r^*m83^{\wedge}2 - 320/27*\ln(4)*F^{\wedge}3*\sinx^4*\cosx*\pi^{\wedge}2*L8r^*m83^{\wedge}2 - 320/9*\ln(4)*F^{\wedge}3 \\
& 3*\sinx^4*\cosx*\pi^{\wedge}2*L7r^*m83^{\wedge}2 + 64/27*\ln(4)*F^{\wedge}3*\sinx^5*\sqrt{3}*\pi^{\wedge}2 \\
& 2^*L8r^*m83^{\wedge}2 + 64/9*\ln(4)*F^{\wedge}3*\sinx^5*\sqrt{3}*\pi^{\wedge}2*L7r^*m83^{\wedge}2 - 1/20736*\ln(4)^2 * F^{\wedge}3 \\
& 3*\cosx*\pi^{\wedge}4 * m83^{\wedge}2 - 113/124416*\ln(4)^2 * F^{\wedge}3*\sinx*\sqrt{3}*\pi^{\wedge}4 * m83^{\wedge}2 \\
& + 1/2592*\ln(4)^2 * F^{\wedge}3*\sinx^2*\cosx*\pi^{\wedge}4 * m83^{\wedge}2 + 13/3888*\ln(4)^2 * F^{\wedge}3 \\
& 3*\sinx^3*\sqrt{3}*\pi^{\wedge}4 * m83^{\wedge}2 + 1/432*\ln(4)^2 * F^{\wedge}3*\sinx^4*\cosx*\pi^{\wedge}4 * m83^{\wedge}2 \\
& - 1/432*\ln(4)^2 * F^{\wedge}3*\sinx^5*\sqrt{3}*\pi^{\wedge}4 * m83^{\wedge}2 + 1/6912*\ln(4)*\ln(6)*F^{\wedge}3 \\
& 3*\sinx*\sqrt{3}*\pi^{\wedge}4 * m83^{\wedge}2 - 5/2592*\ln(4)*\ln(6)*F^{\wedge}3*\sinx^2*\cosx*\pi^{\wedge}4 \\
& 4 * m83^{\wedge}2 + 1/216*\ln(4)*\ln(6)*F^{\wedge}3*\sinx^4*\cosx*\pi^{\wedge}4 * m83^{\wedge}2 + 5/9216*\ln(4)*\ln(8)*F^{\wedge}3 \\
& 3*\cosx*\pi^{\wedge}4 * m83^{\wedge}2 - 17/27648*\ln(4)*\ln(8)*F^{\wedge}3*\sinx*\sqrt{3}*\pi^{\wedge}4 * m83^{\wedge}2 - \\
& 67/20736*\ln(4)*\ln(8)*F^{\wedge}3*\sinx^2*\cosx*\pi^{\wedge}4 * m83^{\wedge}2 + 475/186624*\ln(4)*\ln(8)*F^{\wedge}3 \\
& 3*\sinx^3*\sqrt{3}*\pi^{\wedge}4 * m83^{\wedge}2 + 5/3888*\ln(4)*\ln(8)*F^{\wedge}3*\sinx^4*\cosx*\pi^{\wedge}4 \\
& 4 * m83^{\wedge}2 - 7/2916*\ln(4)*\ln(8)*F^{\wedge}3*\sinx^5*\sqrt{3}*\pi^{\wedge}4 * m83^{\wedge}2 + 7/1296*\ln(4)*\ln(8)*F^{\wedge}3 \\
& 3*\sinx^6*\cosx*\pi^{\wedge}4 * m83^{\wedge}2 + 1/1296*\ln(4)*\ln(8)*F^{\wedge}3*\sinx^7*\sqrt{3}*\pi^{\wedge}4 \\
& 4 * m83^{\wedge}2 + 115/162*\ln(6)*F^{\wedge}3*\cosx*\pi^{\wedge}2 * L8r^*m83^{\wedge}2 + 56/27*\ln(6)*F^{\wedge}3 \\
& 3*\cosx*\pi^{\wedge}2 * L7r^*m83^{\wedge}2 + 1/18*\ln(6)*F^{\wedge}3*\cosx*\pi^{\wedge}2 * L6r^*m83^{\wedge}2 - \\
& 1/108*\ln(6)*F^{\wedge}3*\cosx*\pi^{\wedge}2 * L5r^*m83^{\wedge}2 - 1/36*\ln(6)*F^{\wedge}3*\cosx*\pi^{\wedge}2 * \\
& 2^*L4r^*m83^{\wedge}2 - 1163/486*\ln(6)*F^{\wedge}3*\sinx*\sqrt{3}*\pi^{\wedge}2 * L8r^*m83^{\wedge}2 - \\
& 568/81*\ln(6)*F^{\wedge}3*\sinx*\sqrt{3}*\pi^{\wedge}2 * L7r^*m83^{\wedge}2 + 1/18*\ln(6)*F^{\wedge}3*\sinx*\sqrt{3}*\pi^{\wedge}2 \\
& 2^*L6r^*m83^{\wedge}2 - 5/108*\ln(6)*F^{\wedge}3*\sinx*\sqrt{3}*\pi^{\wedge}2 * L5r^*m83^{\wedge}2 - 11/108*\ln(6)*F^{\wedge}3 \\
& 3*\sinx*\sqrt{3}*\pi^{\wedge}2 * L4r^*m83^{\wedge}2 + 172/27*\ln(6)*F^{\wedge}3*\sinx^2*\cosx*\pi^{\wedge}2 \\
& 2^*L8r^*m83^{\wedge}2 + 512/27*\ln(6)*F^{\wedge}3*\sinx^2*\cosx*\pi^{\wedge}2 * L7r^*m83^{\wedge}2 + \\
& 4/27*\ln(6)*F^{\wedge}3*\sinx^2*\cosx*\pi^{\wedge}2 * L6r^*m83^{\wedge}2 - 2/81*\ln(6)*F^{\wedge}3*\sinx^2*\cosx*\pi^{\wedge}2 \\
& 2^*L5r^*m83^{\wedge}2 - 2/27*\ln(6)*F^{\wedge}3*\sinx^2*\cosx*\pi^{\wedge}2 * L4r^*m83^{\wedge}2 + 1012/243*\ln(6)*F^{\wedge}3 \\
& 3*\sinx^3*\sqrt{3}*\pi^{\wedge}2 * L8r^*m83^{\wedge}2 + 1024/81*\ln(6)*F^{\wedge}3*\sinx^3*\sqrt{3}*\pi^{\wedge}2 \\
& 2^*L7r^*m83^{\wedge}2 - 2/27*\ln(6)*F^{\wedge}3*\sinx^3*\sqrt{3}*\pi^{\wedge}2 * L6r^*m83^{\wedge}2 + 2/81*\ln(6)*F^{\wedge}3 \\
& 3*\sinx^3*\sqrt{3}*\pi^{\wedge}2 * L5r^*m83^{\wedge}2 + 2/27*\ln(6)*F^{\wedge}3*\sinx^3*\sqrt{3}*\pi^{\wedge}2 \\
& 2^*L4r^*m83^{\wedge}2 - 320/27*\ln(6)*F^{\wedge}3*\sinx^4*\cosx*\pi^{\wedge}2 * L8r^*m83^{\wedge}2 - 320/9*\ln(6)*F^{\wedge}3 \\
& 3*\sinx^4*\cosx*\pi^{\wedge}2 * L7r^*m83^{\wedge}2 - 64/27*\ln(6)*F^{\wedge}3*\sinx^5*\sqrt{3}*\pi^{\wedge}2 \\
& 2^*L8r^*m83^{\wedge}2 - 64/9*\ln(6)*F^{\wedge}3*\sinx^5*\sqrt{3}*\pi^{\wedge}2 * L7r^*m83^{\wedge}2 + 1/20736*\ln(6)^2 * F^{\wedge}3 \\
& 3*\cosx*\pi^{\wedge}4 * m83^{\wedge}2 + 143/124416*\ln(6)^2 * F^{\wedge}3*\sinx*\sqrt{3}*\pi^{\wedge}4 * m83^{\wedge}2 \\
& + 1/2592*\ln(6)^2 * F^{\wedge}3*\sinx^2*\cosx*\pi^{\wedge}4 * m83^{\wedge}2 - 13/3888*\ln(6)^2 * F^{\wedge}3 \\
& 3*\sinx^3*\sqrt{3}*\pi^{\wedge}4 * m83^{\wedge}2 + 1/432*\ln(6)^2 * F^{\wedge}3*\sinx^4*\cosx*\pi^{\wedge}4 * m83^{\wedge}2 \\
& - 1/432*\ln(6)^2 * F^{\wedge}3*\sinx^5*\sqrt{3}*\pi^{\wedge}4 * m83^{\wedge}2 - 5/9216*\ln(6)*\ln(8)*F^{\wedge}3 \\
& 3*\cosx*\pi^{\wedge}4 * m83^{\wedge}2 + 119/82944*\ln(6)*\ln(8)*F^{\wedge}3*\sinx*\sqrt{3}*\pi^{\wedge}4 * m83^{\wedge}2 \\
& - 67/20736*\ln(6)*\ln(8)*F^{\wedge}3*\sinx^2*\cosx*\pi^{\wedge}4 * m83^{\wedge}2 - 475/186624*\ln(6)*\ln(8)*F^{\wedge}3 \\
& 3*\sinx^3*\sqrt{3}*\pi^{\wedge}4 * m83^{\wedge}2 + 5/3888*\ln(6)*\ln(8)*F^{\wedge}3*\sinx^4*\cosx*\pi^{\wedge}4 \\
& 4 * m83^{\wedge}2 + 7/2916*\ln(6)*\ln(8)*F^{\wedge}3*\sinx^5*\sqrt{3}*\pi^{\wedge}4 * m83^{\wedge}2 + 7/1296*\ln(6)*\ln(8)*F^{\wedge}3 \\
& 3*\sinx^6*\cosx*\pi^{\wedge}4 * m83^{\wedge}2 - 1/1296*\ln(6)*\ln(8)*F^{\wedge}3*\sinx^7*\sqrt{3}*\pi^{\wedge}4 \\
& 4 * m83^{\wedge}2 - 415/486*\ln(8)*F^{\wedge}3*\sinx*\sqrt{3}*\pi^{\wedge}2 * L8r^*m83^{\wedge}2 - 181/81*\ln(8)*F^{\wedge}3
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L7r^* m83^{\wedge-2} - 7/162 * \ln(8)^* F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L6r^* m83^{\wedge-} \\
& 2 - 13/324 * \ln(8)^* F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L5r^* m83^{\wedge-2} - 13/324 * \ln(8)^* F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L4r^* m83^{\wedge-2} + 1876/243 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 2 * L8r^* m83^{\wedge-2} + 1904/81 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-2} - \\
& 4/27 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L6r^* m83^{\wedge-2} - 2/243 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 2 * L5r^* m83^{\wedge-2} - 10/81 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L4r^* m83^{\wedge-2} - 2216/243 * \ln(8)^* F^{\wedge-} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-2} - 2176/81 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-} \\
& 2 * L7r^* m83^{\wedge-2} - 40/81 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-2} * L6r^* m83^{\wedge-2} + 20/243 * \ln(8)^* F^{\wedge-} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-2} * L5r^* m83^{\wedge-2} + 20/81 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-} \\
& 2 * L4r^* m83^{\wedge-2} - 256/81 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-2} - 256/27 * \ln(8)^* F^{\wedge-} \\
& 3^* \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-2} + 247/746496 * \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 199/93312 * \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 1/1728 * \ln(8)^{\wedge 2} * F^{\wedge-} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 4/729 * \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-} \\
& 2 - 1/486 * \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 8} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - 1/5760 / (\text{mass}(1))^* \ln(1)^{\wedge 2} * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} - 7/2304 / (\text{mass}(1))^* \ln(1)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-1} - 1/5760 / (\text{mass}(2))^* \ln(1)^{\wedge 2} * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} - \\
& 7/2304 / (\text{mass}(2))^* \ln(1)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} - 611/1866240 / (\text{mass}(3))^* \ln(3)^{\wedge 2} * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} + 271/116640 / (\text{mass}(3))^* \ln(3)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-1} - 5/2916 / (\text{mass}(3))^* \ln(3)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} - \\
& 1/8192 / (\text{mass}(4))^* \ln(4)^{\wedge 2} * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} - 461/663552 / (\text{mass}(4))^* \ln(4)^{\wedge 2} * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} + 31/10368 / (\text{mass}(4))^* \ln(4)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-1} + 5/5184 / (\text{mass}(4))^* \ln(4)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} - \\
& 1/8192 / (\text{mass}(5))^* \ln(4)^{\wedge 2} * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} - 461/663552 / (\text{mass}(5))^* \ln(4)^{\wedge 2} * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} + 31/10368 / (\text{mass}(5))^* \ln(4)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-1} + 5/5184 / (\text{mass}(5))^* \ln(4)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} + \\
& 1/8192 / (\text{mass}(6))^* \ln(6)^{\wedge 2} * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} + 91/73728 / (\text{mass}(6))^* \ln(6)^{\wedge 2} * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} + 31/10368 / (\text{mass}(6))^* \ln(6)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-1} - 5/5184 / (\text{mass}(6))^* \ln(6)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} + \\
& 1/8192 / (\text{mass}(7))^* \ln(6)^{\wedge 2} * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} + 91/73728 / (\text{mass}(7))^* \ln(6)^{\wedge 2} * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} + 31/10368 / (\text{mass}(7))^* \ln(6)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-1} - 5/5184 / (\text{mass}(7))^* \ln(6)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-} \\
& 1 + 2327/1866240 / (\text{mass}(8))^* \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} + \\
& 149/116640 / (\text{mass}(8))^* \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} + 5/2916 / (\text{mass}(8))^* \ln(8)^{\wedge 2} * F^{\wedge-} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1}) \\
& + \text{mud}^* \text{mpp}2^{\wedge 3} * \text{mkp}2 * (- 1/1296 / (\text{mass}(1))^* \ln(1)^{\wedge 2} * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 71/93312 / (\text{mass}(3))^* \ln(3)^{\wedge 2} * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} + \\
& 1/5832 / (\text{mass}(3))^* \ln(3)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - 1/1296 / (\text{mass}(6))^* \ln(6)^{\wedge 2} * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} + 47/93312 / (\text{mass}(8))^* \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 1/5832 / (\text{mass}(8))^* \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2}) \\
& + \text{mud}^* \text{mpp}2^{\wedge 4} * (- 1/1296 / (\text{mass}(1))^* \ln(1)^{\wedge 2} * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} + 1/46656 / (\text{mass}(3))^* \ln(3)^{\wedge 2} * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} + \\
& 1/2916 / (\text{mass}(3))^* \ln(3)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - 25/46656 / (\text{mass}(8))^* \ln(8)^{\wedge 2} * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 1/2916 / (\text{mass}(8))^* \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2})
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}^2 * (+ 1307/1474560 * F^{-3} \cos x * \pi^{-4} + 61/276480 * F^{-3} \cos x * \pi^{-2} \\
& - 5/24 * F^{-3} \cos x * \pi^{-2} * L8r - 1/4 * F^{-3} \cos x * \pi^{-2} * L6r + 5/48 * F^{-3} \cos x * \pi^{-2} * L5r \\
& + 1/8 * F^{-3} \cos x * \pi^{-2} * L4r - 127/1728 * F^{-3} \cos x * \pi^{-2} * L3r - 31/144 * F^{-3} \cos x * \pi^{-2} * L2r \\
& - 1/24 * F^{-3} \cos x * \pi^{-2} * L1r - 8/3 * F^{-3} \cos x * L5r^2 - 8 * F^{-3} \cos x * L4r^2 + 24 * F^{-3} \cos x * CC18 + 32/3 * F^{-3} \cos x * CC17 \\
& + 24 * F^{-3} \cos x * CC16 + 32/3 * F^{-3} \cos x * CC14 - 91/2211840 * F^{-3} \sin x * \sqrt{3} * \pi^{-4} - 169/3317760 * F^{-3} \sin x * \sqrt{3} * \pi^{-2} \\
& + 17/72 * F^{-3} \sin x * \sqrt{3} * \pi^{-2} * L8r + 1/4 * F^{-3} \sin x * \sqrt{3} * \pi^{-2} * L6r - 17/144 * F^{-3} \sin x * \sqrt{3} * \pi^{-2} * L5r \\
& - 1/8 * F^{-3} \sin x * \sqrt{3} * \pi^{-2} * L4r + 1/1728 * F^{-3} \sin x * \sqrt{3} * \pi^{-2} * L3r + 1/72 * F^{-3} \sin x * \sqrt{3} * \pi^{-2} * L2r \\
& + 1/36 * F^{-3} \sin x * \sqrt{3} * \pi^{-2} * L1r + 16/9 * F^{-3} \sin x * \sqrt{3} * L5r^2 + 16/3 * F^{-3} \sin x * \sqrt{3} * L4r * L5r \\
& + 8/3 * F^{-3} \sin x * \sqrt{3} * CC18 - 8/9 * F^{-3} \sin x * \sqrt{3} * CC17 - 8/3 * F^{-3} \sin x * \sqrt{3} * CC15 - 8/9 * F^{-3} \sin x * \sqrt{3} * CC14 \\
& + 89/276480 * F^{-3} \sin x^2 * \cos x * \pi^{-4} + 7/51840 * F^{-3} \sin x^2 * \cos x * \pi^{-2} - 1/9 * F^{-3} \sin x^2 * \cos x * \pi^{-2} * L8r \\
& + 1/18 * F^{-3} \sin x^2 * \cos x * \pi^{-2} * L5r + 1/72 * F^{-3} \sin x^2 * \cos x * \pi^{-2} * L3r - 64/3 * F^{-3} \sin x^2 * \cos x * CC18 \\
& - 64/9 * F^{-3} \sin x^2 * \cos x * CC17 - 64/9 * F^{-3} \sin x^2 * \cos x * CC14 + 125/165888 * C * F^{-3} \cos x * \pi^{-4} + 1/12 * C * F^{-3} \cos x * \pi^{-2} * L8r \\
& - 1/12 * C * F^{-3} \cos x * \pi^{-2} * L5r - 125/497664 * C * F^{-3} \sin x * \sqrt{3} * \pi^{-4} - 1/36 * C * F^{-3} \sin x * \sqrt{3} * \pi^{-2} * L8r \\
& + 1/36 * C * F^{-3} \sin x * \sqrt{3} * \pi^{-2} * L5r - 125/62208 * C * F^{-3} \sin x^2 * \cos x * \pi^{-4} - 2/9 * C * F^{-3} \sin x^2 * \cos x * \pi^{-2} * L8r \\
& + 2/9 * C * F^{-3} \sin x^2 * \cos x * \pi^{-2} * L5r - 23/92160 * C^2 * F^{-3} \cos x * \pi^{-4} + 23/276480 * C^2 * F^{-3} \sin x * \sqrt{3} * \pi^{-4} \\
& + 23/34560 * C^2 * F^{-3} \sin x^2 * \cos x * \pi^{-4} + 1/2560 * C * \ln(3) * F^{-3} \cos x * \pi^{-4} - 1/3840 * C * \ln(3) * F^{-3} \sin x * \sqrt{3} * \pi^{-4} \\
& - 1/480 * C * \ln(3) * F^{-3} \sin x^4 * \cos x * \pi^{-4} + 1/11520 * C * \ln(4) * F^{-3} \cos x * \pi^{-4} + 19/138240 * C * \ln(4) * F^{-3} \sin x * \sqrt{3} * \pi^{-4} \\
& - 13/23040 * C * \ln(4) * F^{-3} \sin x^2 * \cos x * \pi^{-4} - 23/69120 * C * \ln(4) * F^{-3} \sin x^3 * \sqrt{3} * \pi^{-4} + 31/92160 * C * \ln(6) * F^{-3} \cos x * \pi^{-4} \\
& - 77/276480 * C * \ln(6) * F^{-3} \sin x * \sqrt{3} * \pi^{-4} - 13/23040 * C * \ln(6) * F^{-3} \sin x^2 * \cos x * \pi^{-4} + 23/69120 * C * \ln(6) * F^{-3} \sin x^3 * \sqrt{3} * \pi^{-4} \\
& + 1/2560 * C * \ln(8) * F^{-3} \cos x * \pi^{-4} - 1/480 * C * \ln(8) * F^{-3} \sin x^2 * \cos x * \pi^{-4} + 1/480 * C * \ln(8) * F^{-3} \sin x^4 * \cos x * \pi^{-4} \\
& - 5/18432 * \ln(3) * F^{-3} \cos x * \pi^{-4} - 1/12 * \ln(3) * F^{-3} \cos x * \pi^{-2} * L5r - 1/12 * \ln(3) * F^{-3} \cos x * \pi^{-2} * L4r \\
& + 1/8 * \ln(3) * F^{-3} \cos x * \pi^{-2} * L3r + 1/4 * \ln(3) * F^{-3} \cos x * \pi^{-2} * L2r + 1/4 * \ln(3) * F^{-3} \cos x * \pi^{-2} * L1r \\
& + 11/27648 * \ln(3) * F^{-3} \sin x * \sqrt{3} * \pi^{-4} + 1/27 * \ln(3) * F^{-3} \sin x * \sqrt{3} * \pi^{-2} * L5r + 1/18 * \ln(3) * F^{-3} \sin x * \sqrt{3} * \pi^{-2} * L4r \\
& - 1/12 * \ln(3) * F^{-3} \sin x * \sqrt{3} * \pi^{-2} * L3r - 1/6 * \ln(3) * F^{-3} \sin x * \sqrt{3} * \pi^{-2} * L2r - 1/6 * \ln(3) * F^{-3} \sin x * \sqrt{3} * \pi^{-2} * L1r \\
& - 1/2304 * \ln(3) * F^{-3} \sin x^2 * \cos x * \pi^{-4} + 1/27 * \ln(3) * F^{-3} \sin x^2 * \cos x * \pi^{-2} * L5r - 1/3456 * \ln(3) * F^{-3} \sin x^4 * \cos x * \pi^{-4} \\
& + 2/27 * \ln(3) * F^{-3} \sin x^4 * \cos x * \pi^{-2} * L5r + 13/110592 * \ln(3) * \ln(4) * F^{-3} \cos x * \pi^{-4} - 151/1658880 * \ln(3) * \ln(4) * F^{-3} \sin x * \sqrt{3} * \pi^{-4} \\
& - 1/4608 * \ln(3) * \ln(4) * F^{-3} \sin x^2 * \cos x * \pi^{-4} + 7/69120 * \ln(3) * \ln(4) * F^{-3} \sin x^3 * \sqrt{3} * \pi^{-4} + 1/34560 * \ln(3) * \ln(4) * F^{-3} \sin x^4 * \cos x * \pi^{-4} \\
& + 1/103680 * \ln(3) * \ln(4) * F^{-3} \sin x^5 * \sqrt{3} * \pi^{-4} - 251/552960 * \ln(3) * \ln(6) * F^{-3} \cos x * \pi^{-4} + 883/1658880 * \ln(3) * \ln(6) * F^{-3} \sin x * \sqrt{3} * \pi^{-4} \\
& - 1/4608 * \ln(3) * \ln(6) * F^{-3} \sin x^2 * \cos x * \pi^{-4} - 7/69120 * \ln(3) * \ln(6) * F^{-3} \sin x^3 * \sqrt{3} * \pi^{-4} + 1/34560 * \ln(3) * \ln(6) * F^{-3} \sin x^4 * \cos x * \pi^{-4} \\
& - 1/103680 * \ln(3) * \ln(6) * F^{-3} \sin x^5 * \sqrt{3} * \pi^{-4} + 1/24576 * \ln(4) * F^{-3} \cos x * \pi^{-4} - 1/24 * \ln(4) * F^{-3} \cos x * \pi^{-2} * L6r \\
& - 1/288 * \ln(4) * F^{-3} \cos x * \pi^{-2} * L5r +
\end{aligned}$$

$$\begin{aligned}
& 1/32*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L4r - 17/73728*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& + 1/36*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r + 5/72*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2} \\
& *L6r - 7/864*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r - 5/96*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2} \\
& *L4r - 1/48*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r + 1/3072*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& - 1/18*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r + 1/36*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2} \\
& *L5r + 1/24*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r + 1/2304*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& - 1/18*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r - 1/9*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2} \\
& *L6r + 1/54*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r + 1/12*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2} \\
& *L4r + 1/24*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L3r + 5/73728*\ln(4)^2*F^{-3}*\cos x*\pi^{-4} - 1/7680*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& + 1/8640*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 13/69120*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/4608*\ln(4)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 11/184320*\ln(4)*\ln(6)*F^{-3}*\cos x*\pi^{-4} + 13/276480*\ln(4)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 1/17280*\ln(4)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/2304*\ln(4)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 11/110592*\ln(4)*\ln(8)*F^{-3}*\cos x*\pi^{-4} + 77/1658880*\ln(4)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 17/69120*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/41472*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/34560*\ln(4)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 1/103680*\ln(4)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 11/24576*\ln(6)*F^{-3}*\cos x*\pi^{-4} - 5/24*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L8r - 5/24*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L6r + 13/288*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L5r - 11/32*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L4r + 9/32*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L3r + 1/4*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L2r + \ln(6)*F^{-3}*\cos x*\pi^{-2}*L1r - 31/73728*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 5/24*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r + 13/72*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r - 113/864*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r - 13/96*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r - 1/32*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r + 1/3072*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/18*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r + 1/36*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r + 1/24*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r - 1/2304*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/18*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r + 1/9*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r - 1/54*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r - 1/12*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r - 1/24*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L3r - 3/40960*\ln(6)^2*F^{-3}*\cos x*\pi^{-4} + 29/276480*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 1/8640*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 13/69120*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/4608*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 71/552960*\ln(6)*\ln(8)*F^{-3}*\cos x*\pi^{-4} + 103/1658880*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 17/69120*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/41472*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/34560*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 1/103680*\ln(6)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} - 1/6144*\ln(8)*F^{-3}*\cos x*\pi^{-4} - 1/36*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L5r - 7/36*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L4r + 7/72*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L3r + 7/72*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L2r + 7/18*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L1r + 1/9216*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 1/54*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r - 1/18*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r + 1/36*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r + 1/36*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L2r + 1/9*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L1r + 1/6912*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r + 1/3456*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 2/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r + 1/3*Hb(1,2,3,p1ext.p1ext)*F^{-3}*\cos x*m83^{-1} - 2/9*Hb(1,2,3,p1ext.p1ext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 4/9*Hb(1,2,3,p1ext.p1ext)*F^{-3}*\sin x^4*\cos x*m83^{-1} - 1/6*Hb(1,2,3,1,p1ext.p1ext)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\cos x + 2/9^*\text{Hb}(1,2,3,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2*\cos x - 2/9^*\text{Hb}(1,2,3,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4*\cos x - 1/9^*\text{Hb}(1,2,8,\text{plext.plext})^*\text{F}^{-3^*}\cos x^*\text{m83}^{-1} - 4/27^*\text{Hb}(1,2,8,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3}^*\text{m83}^{-1} + 4/9^*\text{Hb}(1,2,8,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2*\cos x^*\text{m83}^{-1} \\
& + 4/9^*\text{Hb}(1,2,8,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4*\cos x^*\text{m83}^{-1} + 1/9^*\text{Hb}(1,2,8,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} + 2/9^*\text{Hb}(1,2,8,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4*\cos x - 1/9^*\text{Hb}(1,5,6,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3}^*\text{m83}^{-1} + 2/9^*\text{Hb}(1,5,6,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2*\cos x^*\text{m83}^{-1} \\
& + 2/9^*\text{Hb}(1,5,6,\text{plext.plext})^*\text{F}^{-3^*}\sin x^3*\sqrt{3}^*\text{m83}^{-1} + 1/4^*\text{Hb}(1,5,6,1,\text{plext.plext})^*\text{F}^{-3^*}\cos x - 1/18^*\text{Hb}(1,5,6,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} + 1/9^*\text{Hb}(1,5,6,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2*\cos x + 1/9^*\text{Hb}(1,5,6,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^3*\sqrt{3} - 1/9^*\text{Hb}(2,4,7,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3}^*\text{m83}^{-1} + 2/9^*\text{Hb}(2,4,7,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2*\cos x^*\text{m83}^{-1} \\
& + 2/9^*\text{Hb}(2,4,7,\text{plext.plext})^*\text{F}^{-3^*}\sin x^3*\sqrt{3}^*\text{m83}^{-1} + 1/4^*\text{Hb}(2,4,7,1,\text{plext.plext})^*\text{F}^{-3^*}\cos x - 1/18^*\text{Hb}(2,4,7,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} + 1/9^*\text{Hb}(2,4,7,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2*\cos x + 1/9^*\text{Hb}(2,4,7,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^3*\sqrt{3} - 1/12^*\text{Hb}(3,1,2,\text{plext.plext})^*\text{F}^{-3^*}\cos x^*\text{m83}^{-1} + 1/18^*\text{Hb}(3,1,2,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3}^*\text{m83}^{-1} + 1/9^*\text{Hb}(3,1,2,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4*\cos x^*\text{m83}^{-1} + 1/24^*\text{Hb}(3,1,2,1,\text{plext.plext})^*\text{F}^{-3^*}\cos x - 1/18^*\text{Hb}(3,1,2,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2*\cos x + 1/18^*\text{Hb}(3,1,2,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4*\cos x - 2/81^*\text{Hb}(3,3,3,\text{plext.plext})^*\text{F}^{-3^*}\cos x^*\text{m83}^{-1} + 2/243^*\text{Hb}(3,3,3,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3}^*\text{m83}^{-1} + 4/243^*\text{Hb}(3,3,3,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2*\cos x^*\text{m83}^{-1} + 88/243^*\text{Hb}(3,3,3,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4*\cos x^*\text{m83}^{-1} - 64/81^*\text{Hb}(3,3,3,\text{plext.plext})^*\text{F}^{-3^*}\sin x^6*\cos x^*\text{m83}^{-1} + 128/243^*\text{Hb}(3,3,3,\text{plext.plext})^*\text{F}^{-3^*}\sin x^8*\cos x^*\text{m83}^{-1} + 4/81^*\text{Hb}(3,3,3,1,\text{plext.plext})^*\text{F}^{-3^*}\cos x - 16/243^*\text{Hb}(3,3,3,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2*\cos x + 32/81^*\text{Hb}(3,3,3,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4*\cos x - 128/243^*\text{Hb}(3,3,3,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^6*\cos x + 64/243^*\text{Hb}(3,3,3,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^8*\cos x + 2/81^*\text{Hb}(3,3,8,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3}^*\text{m83}^{-1} - 4/81^*\text{Hb}(3,3,8,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2*\cos x^*\text{m83}^{-1} - 56/81^*\text{Hb}(3,3,8,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4*\cos x^*\text{m83}^{-1} + 64/27^*\text{Hb}(3,3,8,\text{plext.plext})^*\text{F}^{-3^*}\sin x^6*\cos x^*\text{m83}^{-1} - 128/81^*\text{Hb}(3,3,8,\text{plext.plext})^*\text{F}^{-3^*}\sin x^8*\cos x^*\text{m83}^{-1} + 8/81^*\text{Hb}(3,3,8,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2*\cos x - 8/9^*\text{Hb}(3,3,8,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4*\cos x + 128/81^*\text{Hb}(3,3,8,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^6*\cos x - 64/81^*\text{Hb}(3,3,8,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^8*\cos x + 25/216^*\text{Hb}(3,4,5,\text{plext.plext})^*\text{F}^{-3^*}\cos x^*\text{m83}^{-1} - 109/1296^*\text{Hb}(3,4,5,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3}^*\text{m83}^{-1} + 5/27^*\text{Hb}(3,4,5,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2*\cos x^*\text{m83}^{-1} - 41/324^*\text{Hb}(3,4,5,\text{plext.plext})^*\text{F}^{-3^*}\sin x^3*\sqrt{3}^*\text{m83}^{-1} + 1/54^*\text{Hb}(3,4,5,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4*\cos x^*\text{m83}^{-1} + 23/288^*\text{Hb}(3,4,5,1,\text{plext.plext})^*\text{F}^{-3^*}\cos x + 25/432^*\text{Hb}(3,4,5,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} + 5/36^*\text{Hb}(3,4,5,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2*\cos x - 5/72^*\text{Hb}(3,4,5,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^3*\sqrt{3} + 1/108^*\text{Hb}(3,4,5,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4*\cos x + 1/108^*\text{Hb}(3,4,5,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^5*\sqrt{3} - 7/216^*\text{Hb}(3,6,7,\text{plext.plext})^*\text{F}^{-3^*}\cos x^*\text{m83}^{-1} - 59/1296^*\text{Hb}(3,6,7,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3}^*\text{m83}^{-1} + 5/27^*\text{Hb}(3,6,7,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2*\cos x^*\text{m83}^{-1} + 41/324^*\text{Hb}(3,6,7,\text{plext.plext})^*\text{F}^{-3^*}\sin x^3*\sqrt{3}^*\text{m83}^{-1} + 1/54^*\text{Hb}(3,6,7,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4*\cos x^*\text{m83}^{-1} - 1/54^*\text{Hb}(3,6,7,\text{plext.plext})^*\text{F}^{-3^*}\sin x^5*\sqrt{3}^*\text{m83}^{-1} + 25/96^*\text{Hb}(3,6,7,1,\text{plext.plext})^*\text{F}^{-3^*}\cos x - 37/144^*\text{Hb}(3,6,7,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} + 5/36^*\text{Hb}(3,6,7,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2*\cos x + 5/72^*\text{Hb}(3,6,7,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^3*\sqrt{3} + 1/108^*\text{Hb}(3,6,7,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4*\cos x - 1/108^*\text{Hb}(3,6,7,1,\text{plext.plext})^*\text{F}^{-3^*}\sin x^5*\sqrt{3} - 2/81^*\text{Hb}(3,8,8,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3}^*\text{m83}^{-1} + 4/81^*\text{Hb}(3,8,8,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2*\cos x^*\text{m83}^{-1} + 56/81^*\text{Hb}(3,8,8,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4*\cos x^*\text{m83}^{-1} - 64/27^*\text{Hb}(3,8,8,\text{plext.plext})^*\text{F}^{-3^*}\sin x^6*\cos x^*\text{m83}^{-1} - 64/27^*\text{Hb}(3,8,8,\text{plext.plext})^*\text{F}^{-3^*}\sin x^8*\cos x^*\text{m83}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 3*\sin^6*\cos^*m83^{-1} + 128/81*\text{Hb}(3,8,8,\text{plext.plect})*F^{-3}*\sin^8*\cos^*m83^{-} \\
& 1 + 64/81*\text{Hb}(3,8,8,1,\text{plext.plect})*F^{-3}*\sin^4*\cos - 128/81*\text{Hb}(3,8,8,1,\text{plext.plect})*F^{-} \\
& 3*\sin^6*\cos + 64/81*\text{Hb}(3,8,8,1,\text{plext.plect})*F^{-3}*\sin^8*\cos + 1/48*\text{Hb}(4,2,7,\text{plext.plect})*F^{-} \\
& 3*\cos^*m83^{-1} - 5/144*\text{Hb}(4,2,7,\text{plext.plect})*F^{-3}*\sin^*\sqrt{3}^*m83^{-1} + \\
& 1/18*\text{Hb}(4,2,7,\text{plext.plect})*F^{-3}*\sin^3*\sqrt{3}^*m83^{-1} + 1/96*\text{Hb}(4,2,7,1,\text{plext.plect})*F^{-} \\
& 3*\cos - 5/288*\text{Hb}(4,2,7,1,\text{plext.plect})*F^{-3}*\sin^*\sqrt{3} + 1/36*\text{Hb}(4,2,7,1,\text{plext.plect})*F^{-} \\
& 3*\sin^3*\sqrt{3} - 5/27*\text{Hb}(4,5,8,\text{plext.plect})*F^{-3}*\cos^*m83^{-1} + 85/324*\text{Hb}(4,5,8,\text{plext.plect})*F^{-} \\
& 3*\sin^*\sqrt{3}^*m83^{-1} - 2/27*\text{Hb}(4,5,8,\text{plext.plect})*F^{-3}*\sin^2*\cos^*m83^{-1} \\
& + 17/81*\text{Hb}(4,5,8,\text{plext.plect})*F^{-3}*\sin^3*\sqrt{3}^*m83^{-1} + 10/27*\text{Hb}(4,5,8,\text{plext.plect})*F^{-} \\
& 3*\sin^4*\cos^*m83^{-1} - 2/9*\text{Hb}(4,5,8,\text{plext.plect})*F^{-3}*\sin^5*\sqrt{3}^*m83^{-1} \\
& + 1/24*\text{Hb}(4,5,8,1,\text{plext.plect})*F^{-3}*\cos + 7/108*\text{Hb}(4,5,8,1,\text{plext.plect})*F^{-} \\
& 3*\sin^*\sqrt{3} - 2/27*\text{Hb}(4,5,8,1,\text{plext.plect})*F^{-3}*\sin^2*\cos + 7/54*\text{Hb}(4,5,8,1,\text{plext.plect})*F^{-} \\
& 3*\sin^3*\sqrt{3} + 5/27*\text{Hb}(4,5,8,1,\text{plext.plect})*F^{-3}*\sin^4*\cos - 1/9*\text{Hb}(4,5,8,1,\text{plext.plect})*F^{-} \\
& 3*\sin^5*\sqrt{3} + 1/48*\text{Hb}(5,1,6,\text{plext.plect})*F^{-3}*\cos^*m83^{-1} - 5/144*\text{Hb}(5,1,6,\text{plext.plect})*F^{-} \\
& 3*\sin^*\sqrt{3}^*m83^{-1} + 1/18*\text{Hb}(5,1,6,\text{plext.plect})*F^{-3}*\sin^3*\sqrt{3}^*m83^{-} \\
& 1 + 1/96*\text{Hb}(5,1,6,1,\text{plext.plect})*F^{-3}*\cos - 5/288*\text{Hb}(5,1,6,1,\text{plext.plect})*F^{-} \\
& 3*\sin^*\sqrt{3} + 1/36*\text{Hb}(5,1,6,1,\text{plext.plect})*F^{-3}*\sin^3*\sqrt{3} - 1/48*\text{Hb}(6,1,5,\text{plext.plect})*F^{-} \\
& 3*\cos^*m83^{-1} + 5/144*\text{Hb}(6,1,5,\text{plext.plect})*F^{-3}*\sin^*\sqrt{3}^*m83^{-1} - \\
& 1/18*\text{Hb}(6,1,5,\text{plext.plect})*F^{-3}*\sin^3*\sqrt{3}^*m83^{-1} - 7/96*\text{Hb}(6,1,5,1,\text{plext.plect})*F^{-} \\
& 3*\cos + 5/288*\text{Hb}(6,1,5,1,\text{plext.plect})*F^{-3}*\sin^*\sqrt{3} - 1/36*\text{Hb}(6,1,5,1,\text{plext.plect})*F^{-} \\
& 3*\sin^3*\sqrt{3} - 1/27*\text{Hb}(6,7,8,\text{plext.plect})*F^{-3}*\cos^*m83^{-1} + 23/324*\text{Hb}(6,7,8,\text{plext.plect})*F^{-} \\
& 3*\sin^*\sqrt{3}^*m83^{-1} - 2/27*\text{Hb}(6,7,8,\text{plext.plect})*F^{-3}*\sin^2*\cos^*m83^{-1} - \\
& 17/81*\text{Hb}(6,7,8,\text{plext.plect})*F^{-3}*\sin^3*\sqrt{3}^*m83^{-1} + 10/27*\text{Hb}(6,7,8,\text{plext.plect})*F^{-} \\
& 3*\sin^4*\cos^*m83^{-1} + 2/9*\text{Hb}(6,7,8,\text{plext.plect})*F^{-3}*\sin^5*\sqrt{3}^*m83^{-} \\
& 1 - 1/72*\text{Hb}(6,7,8,1,\text{plext.plect})*F^{-3}*\cos + 5/108*\text{Hb}(6,7,8,1,\text{plext.plect})*F^{-} \\
& 3*\sin^*\sqrt{3} - 2/27*\text{Hb}(6,7,8,1,\text{plext.plect})*F^{-3}*\sin^2*\cos - 7/54*\text{Hb}(6,7,8,1,\text{plext.plect})*F^{-} \\
& 3*\sin^3*\sqrt{3} + 5/27*\text{Hb}(6,7,8,1,\text{plext.plect})*F^{-3}*\sin^4*\cos + 1/9*\text{Hb}(6,7,8,1,\text{plext.plect})*F^{-} \\
& 3*\sin^5*\sqrt{3} - 1/48*\text{Hb}(7,2,4,\text{plext.plect})*F^{-3}*\cos^*m83^{-1} + 5/144*\text{Hb}(7,2,4,\text{plext.plect})*F^{-} \\
& 3*\sin^*\sqrt{3}^*m83^{-1} - 1/18*\text{Hb}(7,2,4,\text{plext.plect})*F^{-3}*\sin^3*\sqrt{3}^*m83^{-1} \\
& - 7/96*\text{Hb}(7,2,4,1,\text{plext.plect})*F^{-3}*\cos + 5/288*\text{Hb}(7,2,4,1,\text{plext.plect})*F^{-} \\
& 3*\sin^*\sqrt{3} - 1/36*\text{Hb}(7,2,4,1,\text{plext.plect})*F^{-3}*\sin^3*\sqrt{3} + 1/12*\text{Hb}(8,1,2,\text{plext.plect})*F^{-} \\
& 3*\cos^*m83^{-1} - 1/18*\text{Hb}(8,1,2,\text{plext.plect})*F^{-3}*\sin^*\sqrt{3}^*m83^{-1} - \\
& 1/9*\text{Hb}(8,1,2,\text{plext.plect})*F^{-3}*\sin^4*\cos^*m83^{-1} - 1/24*\text{Hb}(8,1,2,1,\text{plext.plect})*F^{-} \\
& 3*\cos + 1/18*\text{Hb}(8,1,2,1,\text{plext.plect})*F^{-3}*\sin^2*\cos - 1/18*\text{Hb}(8,1,2,1,\text{plext.plect})*F^{-} \\
& 3*\sin^4*\cos - 1/12*\text{Hb}(8,4,5,\text{plext.plect})*F^{-3}*\cos^*m83^{-1} + 11/144*\text{Hb}(8,4,5,\text{plext.plect})*F^{-} \\
& 3*\sin^*\sqrt{3}^*m83^{-1} - 1/12*\text{Hb}(8,4,5,\text{plext.plect})*F^{-3}*\sin^3*\sqrt{3}^*m83^{-1} \\
& + 1/18*\text{Hb}(8,4,5,\text{plext.plect})*F^{-3}*\sin^4*\cos^*m83^{-1} + 1/18*\text{Hb}(8,4,5,\text{plext.plect})*F^{-} \\
& 3*\sin^5*\sqrt{3}^*m83^{-1} - 1/32*\text{Hb}(8,4,5,1,\text{plext.plect})*F^{-3}*\cos + 1/72*\text{Hb}(8,4,5,1,\text{plext.plect})*F^{-} \\
& 3*\sin^*\sqrt{3} - 1/36*\text{Hb}(8,4,5,1,\text{plext.plect})*F^{-3}*\sin^2*\cos - 1/24*\text{Hb}(8,4,5,1,\text{plext.plect})*F^{-} \\
& 3*\sin^3*\sqrt{3} + 1/36*\text{Hb}(8,4,5,1,\text{plext.plect})*F^{-3}*\sin^4*\cos + 1/36*\text{Hb}(8,4,5,1,\text{plext.plect})*F^{-} \\
& 3*\sin^5*\sqrt{3} - 1/48*\text{Hb}(8,6,7,\text{plext.plect})*F^{-3}*\sin^*\sqrt{3}^*m83^{-1} + \\
& 1/12*\text{Hb}(8,6,7,\text{plext.plect})*F^{-3}*\sin^3*\sqrt{3}^*m83^{-1} + 1/18*\text{Hb}(8,6,7,\text{plext.plect})*F^{-} \\
& 3*\sin^4*\cos^*m83^{-1} - 1/18*\text{Hb}(8,6,7,\text{plext.plect})*F^{-3}*\sin^5*\sqrt{3}^*m83^{-} \\
& 1 + 1/96*\text{Hb}(8,6,7,1,\text{plext.plect})*F^{-3}*\cos - 1/72*\text{Hb}(8,6,7,1,\text{plext.plect})*F^{-} \\
& 3*\sin^*\sqrt{3} - 1/36*\text{Hb}(8,6,7,1,\text{plext.plect})*F^{-3}*\sin^2*\cos + 1/24*\text{Hb}(8,6,7,1,\text{plext.plect})*F^{-} \\
& 3*\sin^3*\sqrt{3} + 1/36*\text{Hb}(8,6,7,1,\text{plext.plect})*F^{-3}*\sin^4*\cos - 1/36*\text{Hb}(8,6,7,1,\text{plext.plect})*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^5*\sqrt{3} - 2/81*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 2/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 28/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& - 88/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 64/81*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x^6*\cos x*m83^{-1} - 128/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x^8*\cos x*m83^{-1} \\
& + 1/324*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\cos x + 8/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 8/27*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 128/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^6*\cos x \\
& - 64/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^8*\cos x + 1/4*\text{H21b}(1,5,6,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 1/4*\text{H21b}(1,5,6,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 1/6*\text{H21b}(1,5,6,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& + 1/16*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-3}*\cos x - 1/12*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/12*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/4*\text{H21b}(2,4,7,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} \\
& - 1/4*\text{H21b}(2,4,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 1/6*\text{H21b}(2,4,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/16*\text{H21b}(2,4,7,1,\text{plext.plext})*F^{-3}*\cos x - 1/12*\text{H21b}(2,4,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/12*\text{H21b}(2,4,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/4*\text{H21b}(3,1,2,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 1/6*\text{H21b}(3,1,2,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 1/3*\text{H21b}(3,1,2,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/8*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3}*\cos x - 1/6*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/6*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 1/8*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 1/48*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 1/12*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/6*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - 1/6*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 1/32*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\cos x + 1/16*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/12*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/24*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/12*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 1/12*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} + 1/8*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 7/48*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 1/12*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/6*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/6*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 1/6*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 13/32*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3}*\cos x - 7/16*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/12*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/24*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/12*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 1/12*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} - 1/4*\text{H21b}(4,2,7,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 5/24*\text{H21b}(4,2,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 1/12*\text{H21b}(4,2,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/12*\text{H21b}(4,2,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/8*\text{H21b}(4,2,7,1,\text{plext.plext})*F^{-3}*\cos x - 1/8*\text{H21b}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/24*\text{H21b}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/24*\text{H21b}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/4*\text{H21b}(5,1,6,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 5/24*\text{H21b}(5,1,6,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 1/12*\text{H21b}(5,1,6,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/12*\text{H21b}(5,1,6,1,\text{plext.plext})*F^{-3}*\cos x - 1/8*\text{H21b}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/24*\text{H21b}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/24*\text{H21b}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + 1/24*\text{H21b}(6,1,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 1/12*\text{H21b}(6,1,5,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/12*\text{H21b}(6,1,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/12*\text{H21b}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/24*\text{H21b}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/24*\text{H21b}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + 1/24*\text{H21b}(7,2,4,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 1/12*\text{H21b}(7,2,4,\text{plext.plext})*F^{-3}*\sin x^2*\cos x
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^2*\cos x*m83^{-1} - 1/12*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-} \\
& 1 + 1/12*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 1/24*H21b(7,2,4,1,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x - 1/24*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 1/4*H21b(8,1,2,plext.plext)*F^{-} \\
& 3^*\cos x*m83^{-1} + 1/3*H21b(8,1,2,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 1/3*H21b(8,1,2,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/3*H21b(8,1,2,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x*m83^{-1} + 1/8*H21b(8,1,2,1,plext.plext)*F^{-3}*\cos x - 1/12*H21b(8,1,2,1,plext.plext)*F^{-} \\
& 3^*\sin x*\sqrt{3} - 1/6*H21b(8,1,2,1,plext.plext)*F^{-3}*\sin x^4*\cos x + 3/8*H21b(8,4,5,plext.plext)*F^{-} \\
& 3^*\cos x*m83^{-1} - 19/48*H21b(8,4,5,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + \\
& 1/6*H21b(8,4,5,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/12*H21b(8,4,5,plext.plext)*F^{-} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} + 1/6*H21b(8,4,5,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-} \\
& 1 + 1/6*H21b(8,4,5,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 3/32*H21b(8,4,5,1,plext.plext)*F^{-} \\
& 3^*\cos x - 1/16*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 1/24*H21b(8,4,5,1,plext.plext)*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 1/12*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin x^4*\cos x + \\
& 1/12*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} - 1/8*H21b(8,6,7,plext.plext)*F^{-} \\
& 3^*\cos x*m83^{-1} + 1/16*H21b(8,6,7,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + \\
& 1/6*H21b(8,6,7,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/12*H21b(8,6,7,plext.plext)*F^{-} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} + 1/6*H21b(8,6,7,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-} \\
& 1 - 1/6*H21b(8,6,7,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - 1/32*H21b(8,6,7,1,plext.plext)*F^{-} \\
& 3^*\cos x + 1/48*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 1/24*H21b(8,6,7,1,plext.plext)*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 1/12*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin x^4*\cos x - \\
& 1/12*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} - 5/9*HH1b(1,2,3,plext.plext)*F^{-} \\
& 3^*\cos x*m83^{-1} + 11/27*HH1b(1,2,3,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 2/27*HH1b(1,2,3,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 8/9*HH1b(1,2,3,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x*m83^{-1} + 1/3*HH1b(1,2,3,1,plext.plext)*F^{-3}*\cos x - \\
& 4/9*HH1b(1,2,3,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 4/9*HH1b(1,2,3,1,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x + 1/9*HH1b(1,2,8,plext.plext)*F^{-3}*\cos x*m83^{-1} + 1/9*HH1b(1,2,8,plext.plext)*F^{-} \\
& 3^*\sin x*\sqrt{3}*m83^{-1} - 10/27*HH1b(1,2,8,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-} \\
& 1 - 8/9*HH1b(1,2,8,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} - 1/9*HH1b(1,2,8,1,plext.plext)*F^{-} \\
& 3^*\sin x*\sqrt{3} + 2/9*HH1b(1,2,8,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 4/9*HH1b(1,2,8,1,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x - 1/3*HH1b(1,5,6,plext.plext)*F^{-3}*\cos x*m83^{-1} + 2/9*HH1b(1,5,6,plext.plext)*F^{-} \\
& 3^*\sin x*\sqrt{3}*m83^{-1} + 2/9*HH1b(1,5,6,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-} \\
& 1 - 2/9*HH1b(1,5,6,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/3*HH1b(1,5,6,1,plext.plext)*F^{-} \\
& 3^*\cos x + 1/6*HH1b(1,5,6,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 1/9*HH1b(1,5,6,1,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x - 1/9*HH1b(1,5,6,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 5/9*HH1b(2,1,3,plext.plext)*F^{-} \\
& 3^*\cos x*m83^{-1} + 11/27*HH1b(2,1,3,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 2/27*HH1b(2,1,3,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 8/9*HH1b(2,1,3,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x*m83^{-1} + 1/3*HH1b(2,1,3,1,plext.plext)*F^{-3}*\cos x - \\
& 4/9*HH1b(2,1,3,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 4/9*HH1b(2,1,3,1,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x + 1/9*HH1b(2,1,8,plext.plext)*F^{-3}*\cos x*m83^{-1} + 1/9*HH1b(2,1,8,plext.plext)*F^{-} \\
& 3^*\sin x*\sqrt{3}*m83^{-1} - 10/27*HH1b(2,1,8,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-} \\
& 1 - 8/9*HH1b(2,1,8,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} - 1/9*HH1b(2,1,8,1,plext.plext)*F^{-} \\
& 3^*\sin x*\sqrt{3} + 2/9*HH1b(2,1,8,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 4/9*HH1b(2,1,8,1,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x - 1/3*HH1b(2,4,7,plext.plext)*F^{-3}*\cos x*m83^{-1} + 2/9*HH1b(2,4,7,plext.plext)*F^{-} \\
& 3^*\sin x*\sqrt{3}*m83^{-1} + 2/9*HH1b(2,4,7,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-} \\
& 1 - 2/9*HH1b(2,4,7,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/3*HH1b(2,4,7,1,plext.plext)*F^{-} \\
& 3^*\cos x + 1/6*HH1b(2,4,7,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 1/9*HH1b(2,4,7,1,plext.plext)*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^2*\cos x - 1/9*\text{HH1b}(2,4,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 2/9*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 1/9*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 1/27*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/9*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 4/9*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - \\
& 1 + 4/27*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - 1/6*\text{HH1b}(3,4,5,1,\text{plext.plext})*F^{-3}*\cos x - 1/12*\text{HH1b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/27*\text{HH1b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - \\
& 2/9*\text{HH1b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 2/27*\text{HH1b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} + 2/27*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 1/27*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - \\
& 1 - 1/9*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 4/9*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - 4/27*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - \\
& 1 - 1/2*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\cos x + 19/36*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/27*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 2/9*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - \\
& 2/27*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} + 2/9*\text{HH1b}(4,2,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 4/9*\text{HH1b}(4,2,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/3*\text{HH1b}(4,2,7,1,\text{plext.plext})*F^{-3}*\cos x + \\
& 2/9*\text{HH1b}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 2/9*\text{HH1b}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + 2/9*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 8/27*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 5/27*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - \\
& 1 - 1/9*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 4/9*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 4/27*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - \\
& 1 - 1/12*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/9*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 2/27*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - \\
& 2/9*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 2/27*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} + 2/9*\text{HH1b}(5,1,6,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 4/9*\text{HH1b}(5,1,6,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/3*\text{HH1b}(5,1,6,1,\text{plext.plext})*F^{-3}*\cos x + 2/9*\text{HH1b}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 2/9*\text{HH1b}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + 2/9*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 8/27*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 5/27*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - \\
& 1 - 1/9*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 4/9*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 4/27*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - \\
& 1 - 1/12*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/9*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 2/27*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - \\
& 2/9*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 2/27*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} - 1/27*\text{HH1b}(6,7,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + \\
& 5/27*\text{HH1b}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/9*\text{HH1b}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 4/9*\text{HH1b}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - \\
& 1 - 4/27*\text{HH1b}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - 1/36*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/9*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 2/27*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 2/9*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 2/27*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} - 1/27*\text{HH1b}(7,6,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + \\
& 5/27*\text{HH1b}(7,6,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/9*\text{HH1b}(7,6,8,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 4/9*\text{HH1b}(7,6,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - \\
& 1 - 4/27*\text{HH1b}(7,6,8,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - 1/36*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/9*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 2/27*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 2/9*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 2/27*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}
\end{aligned}$$

$$\begin{aligned}
& 3^{\text{sinx}^5 \sqrt{3}}) \\
& + \text{mud}^2 \text{mkp}^2 * (+ 1253/331776 * F^{-3 \text{cosx} \pi^{-4} \text{m}83^{-1}} + 293/497664 * F^{-3 \text{cosx} \pi^{-2} \text{m}83^{-1}} + 5/9 * F^{-3 \text{cosx} \pi^{-2} \text{L}8\text{r} \text{m}83^{-1}} + 2/9 * F^{-3 \text{cosx} \pi^{-2} \text{L}7\text{r} \text{m}83^{-1}} + 5/9 * F^{-3 \text{cosx} \pi^{-2} \text{L}6\text{r} \text{m}83^{-1}} - 13/54 * F^{-3 \text{cosx} \pi^{-2} \text{L}5\text{r} \text{m}83^{-1}} - 5/18 * F^{-3 \text{cosx} \pi^{-2} \text{L}4\text{r} \text{m}83^{-1}} - 1/144 * F^{-3 \text{cosx} \pi^{-2} \text{L}3\text{r} \text{m}83^{-1}} - 128/9 * F^{-3 \text{cosx} \text{L}5\text{r} \text{L}8\text{r} \text{m}83^{-1}} - 128/3 * F^{-3 \text{cosx} \text{L}5\text{r} \text{L}7\text{r} \text{m}83^{-1}} - 128/3 * F^{-3 \text{cosx} \text{L}4\text{r} \text{L}8\text{r} \text{m}83^{-1}} - 128 * F^{-3 \text{cosx} \text{L}4\text{r} \text{L}7\text{r} \text{m}83^{-1}} - 128/3 * F^{-3 \text{cosx} \text{CC}33 \text{m}83^{-1}} - 64/3 * F^{-3 \text{cosx} \text{CC}32 \text{m}83^{-1}} - 64/3 * F^{-3 \text{cosx} \text{CC}31 \text{m}83^{-1}} - 64/3 * F^{-3 \text{cosx} \text{CC}20 \text{m}83^{-1}} - 32 * F^{-3 \text{cosx} \text{CC}19 \text{m}83^{-1}} + 32/3 * F^{-3 \text{cosx} \text{CC}18 \text{m}83^{-1}} + 32/9 * F^{-3 \text{cosx} \text{CC}17 \text{m}83^{-1}} + 32/9 * F^{-3 \text{cosx} \text{CC}14 \text{m}83^{-1}} - 4433/1244160 * F^{-3 \text{sinx} \sqrt{3} \pi^{-4} \text{m}83^{-1}} - 2419/3732480 * F^{-3 \text{sinx} \sqrt{3} \pi^{-2} \text{m}83^{-1}} - 7/27 * F^{-3 \text{sinx} \sqrt{3} \pi^{-2} \text{L}8\text{r} \text{m}83^{-1}} - 4/27 * F^{-3 \text{sinx} \sqrt{3} \pi^{-2} \text{L}7\text{r} \text{m}83^{-1}} - 10/27 * F^{-3 \text{sinx} \sqrt{3} \pi^{-2} \text{L}6\text{r} \text{m}83^{-1}} + 17/162 * F^{-3 \text{sinx} \sqrt{3} \pi^{-2} \text{L}5\text{r} \text{m}83^{-1}} + 5/27 * F^{-3 \text{sinx} \sqrt{3} \pi^{-2} \text{L}4\text{r} \text{m}83^{-1}} - 1/108 * F^{-3 \text{sinx} \sqrt{3} \pi^{-2} \text{L}3\text{r} \text{m}83^{-1}} + 2560/27 * F^{-3 \text{sinx} \sqrt{3} \text{L}5\text{r} \text{L}8\text{r} \text{m}83^{-1}} + 2560/9 * F^{-3 \text{sinx} \sqrt{3} \text{L}5\text{r} \text{L}7\text{r} \text{m}83^{-1}} + 256/9 * F^{-3 \text{sinx} \sqrt{3} \text{L}4\text{r} \text{L}8\text{r} \text{m}83^{-1}} + 256/3 * F^{-3 \text{sinx} \sqrt{3} \text{L}4\text{r} \text{L}7\text{r} \text{m}83^{-1}} + 256/9 * F^{-3 \text{sinx} \sqrt{3} \text{CC}33 \text{m}83^{-1}} + 128/9 * F^{-3 \text{sinx} \sqrt{3} \text{CC}32 \text{m}83^{-1}} + 128/9 * F^{-3 \text{sinx} \sqrt{3} \text{CC}31 \text{m}83^{-1}} + 128/9 * F^{-3 \text{sinx} \sqrt{3} \text{CC}20 \text{m}83^{-1}} + 64/3 * F^{-3 \text{sinx} \sqrt{3} \text{CC}19 \text{m}83^{-1}} + 128/9 * F^{-3 \text{sinx} \sqrt{3} \text{CC}18 \text{m}83^{-1}} + 128/27 * F^{-3 \text{sinx} \sqrt{3} \text{CC}17 \text{m}83^{-1}} + 128/27 * F^{-3 \text{sinx} \sqrt{3} \text{CC}14 \text{m}83^{-1}} - 1253/41472 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} \text{m}83^{-1}} - 293/62208 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} \text{m}83^{-1}} - 40/9 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} \text{L}8\text{r} \text{m}83^{-1}} - 16/9 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} \text{L}7\text{r} \text{m}83^{-1}} - 40/9 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} \text{L}6\text{r} \text{m}83^{-1}} + 52/27 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} \text{L}5\text{r} \text{m}83^{-1}} + 20/9 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} \text{L}4\text{r} \text{m}83^{-1}} + 1/18 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} \text{L}3\text{r} \text{m}83^{-1}} + 1024/9 * F^{-3 \text{sinx}^2 \text{cosx} \text{L}5\text{r} \text{L}8\text{r} \text{m}83^{-1}} + 1024/3 * F^{-3 \text{sinx}^2 \text{cosx} \text{L}5\text{r} \text{L}7\text{r} \text{m}83^{-1}} + 1024/3 * F^{-3 \text{sinx}^2 \text{cosx} \text{L}4\text{r} \text{L}8\text{r} \text{m}83^{-1}} + 1024 * F^{-3 \text{sinx}^2 \text{cosx} \text{L}4\text{r} \text{L}7\text{r} \text{m}83^{-1}} + 1024/3 * F^{-3 \text{sinx}^2 \text{cosx} \text{CC}33 \text{m}83^{-1}} + 512/3 * F^{-3 \text{sinx}^2 \text{cosx} \text{CC}32 \text{m}83^{-1}} + 512/3 * F^{-3 \text{sinx}^2 \text{cosx} \text{CC}31 \text{m}83^{-1}} + 512/3 * F^{-3 \text{sinx}^2 \text{cosx} \text{CC}20 \text{m}83^{-1}} + 256 * F^{-3 \text{sinx}^2 \text{cosx} \text{CC}19 \text{m}83^{-1}} - 256/3 * F^{-3 \text{sinx}^2 \text{cosx} \text{CC}18 \text{m}83^{-1}} - 256/9 * F^{-3 \text{sinx}^2 \text{cosx} \text{CC}17 \text{m}83^{-1}} - 256/9 * F^{-3 \text{sinx}^2 \text{cosx} \text{CC}14 \text{m}83^{-1}} + 4/9 * C * F^{-3 \text{cosx} \pi^{-2} \text{L}8\text{r} \text{m}83^{-1}} + 4/3 * C * F^{-3 \text{cosx} \pi^{-2} \text{L}7\text{r} \text{m}83^{-1}} + 125/62208 * C * F^{-3 \text{sinx} \sqrt{3} \pi^{-4} \text{m}83^{-1}} - 14/27 * C * F^{-3 \text{sinx} \sqrt{3} \pi^{-2} \text{L}8\text{r} \text{m}83^{-1}} - 20/9 * C * F^{-3 \text{sinx} \sqrt{3} \pi^{-2} \text{L}7\text{r} \text{m}83^{-1}} - 2/9 * C * F^{-3 \text{sinx} \sqrt{3} \pi^{-2} \text{L}5\text{r} \text{m}83^{-1}} - 32/9 * C * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} \text{L}8\text{r} \text{m}83^{-1}} - 32/3 * C * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} \text{L}7\text{r} \text{m}83^{-1}} - 23/34560 * C^2 * F^{-3 \text{sinx} \sqrt{3} \pi^{-4} \text{m}83^{-1}} + 13/34560 * C * \ln(3) * F^{-3 \text{cosx} \pi^{-4} \text{m}83^{-1}} + 11/8640 * C * \ln(3) * F^{-3 \text{sinx} \sqrt{3} \pi^{-4} \text{m}83^{-1}} - 23/4320 * C * \ln(3) * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} \text{m}83^{-1}} + 1/216 * C * \ln(3) * F^{-3 \text{sinx}^4 \text{cosx} \pi^{-4} \text{m}83^{-1}} + 1/576 * C * \ln(4) * F^{-3 \text{cosx} \pi^{-4} \text{m}83^{-1}} - 31/17280 * C * \ln(4) * F^{-3 \text{sinx} \sqrt{3} \pi^{-4} \text{m}83^{-1}} + 1/288 * C * \ln(4) * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} \text{m}83^{-1}} + 1/288 * C * \ln(4) * F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-4} \text{m}83^{-1}} - 1/384 * C * \ln(6) * F^{-3 \text{cosx} \pi^{-4} \text{m}83^{-1}} + 151/34560 * C * \ln(6) * F^{-3 \text{sinx} \sqrt{3} \pi^{-4} \text{m}83^{-1}} + 1/288 * C * \ln(6) * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} \text{m}83^{-1}}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 1/288 * C * \ln(6) * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} \\
& - 11/11520 * C * \ln(8) * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 23/12960 * C * \ln(8) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} \\
& + 43/4320 * C * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 1/216 * C * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} \\
& + 5/20736 * \ln(3) * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 23/27 * \ln(3) * F^{\wedge -3} * \cos x^* \pi^{\wedge -2} * L8r * m83^{\wedge -1} \\
& + 5/3 * \ln(3) * F^{\wedge -3} * \cos x^* \pi^{\wedge -2} * L7r * m83^{\wedge -1} + 2/9 * \ln(3) * F^{\wedge -3} * \cos x^* \pi^{\wedge -2} * L6r * m83^{\wedge -1} \\
& - 1/6 * \ln(3) * F^{\wedge -3} * \cos x^* \pi^{\wedge -2} * L5r * m83^{\wedge -1} - 1/12 * \ln(3) * F^{\wedge -3} * \cos x^* \pi^{\wedge -2} * L4r * m83^{\wedge -1} \\
& - 1/5184 * \ln(3) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} - 4/81 * \ln(3) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -2} * L8r * m83^{\wedge -1} \\
& + 4/27 * \ln(3) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -2} * L7r * m83^{\wedge -1} - 8/27 * \ln(3) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -2} * L6r * m83^{\wedge -1} \\
& - 4/81 * \ln(3) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -2} * L5r * m83^{\wedge -1} + 1/9 * \ln(3) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -2} * L4r * m83^{\wedge -1} \\
& - 1/2592 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 88/27 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L8r * m83^{\wedge -1} \\
& - 64/9 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L7r * m83^{\wedge -1} + 22/27 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L5r * m83^{\wedge -1} \\
& - 1/324 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 272/27 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L8r * m83^{\wedge -1} \\
& - 64/3 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L7r * m83^{\wedge -1} - 32/9 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L6r * m83^{\wedge -1} \\
& + 28/27 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L5r * m83^{\wedge -1} + 4/3 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L4r * m83^{\wedge -1} \\
& + 128/27 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 128/9 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -2} * L8r * m83^{\wedge -1} \\
& + 128/9 * \ln(3) * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -2} * L7r * m83^{\wedge -1} - 11/27648 * \ln(3)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} \\
& + 19/124416 * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + 47/41472 * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} \\
& + 7/2592 * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 17/2592 * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} \\
& - 1/162 * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 8} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 1/3456 * \ln(3) * \ln(4) * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m38^{\wedge -1} \\
& + 839/829440 * \ln(3) * \ln(4) * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 1/5184 * \ln(3) * \ln(4) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m38^{\wedge -1} \\
& - 17/34560 * \ln(3) * \ln(4) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} - 43/34560 * \ln(3) * \ln(4) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} \\
& - 1/3456 * \ln(3) * \ln(4) * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m38^{\wedge -1} - 263/103680 * \ln(3) * \ln(4) * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} \\
& + 1/648 * \ln(3) * \ln(4) * F^{\wedge -3} * \sin x^{\wedge 5} * \sqrt{3} * \pi^{\wedge -4} * m38^{\wedge -1} + 11/2592 * \ln(3) * \ln(4) * F^{\wedge -3} * \sin x^{\wedge 5} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} \\
& - 1/216 * \ln(3) * \ln(4) * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 1/648 * \ln(3) * \ln(4) * F^{\wedge -3} * \sin x^{\wedge 7} * \sqrt{3} * \pi^{\wedge -4} * m38^{\wedge -1} \\
& - 1/3456 * \ln(3) * \ln(6) * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m38^{\wedge -1} - 281/829440 * \ln(3) * \ln(6) * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} \\
& + 1/5184 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m38^{\wedge -1} + 11/25920 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} \\
& - 43/34560 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 1/3456 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m38^{\wedge -1} \\
& + 263/103680 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} - 1/648 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^{\wedge 5} * \sqrt{3} * \pi^{\wedge -4} * m38^{\wedge -1} \\
& - 1/2592 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^{\wedge 5} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} - 1/216 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} \\
& + 1/648 * \ln(3) * \ln(6) * F^{\wedge -3} * \sin x^{\wedge 7} * \sqrt{3} * \pi^{\wedge -4} * m38^{\wedge -1} - 1/41472 * \ln(3) * \ln(8) * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} \\
& - 7/62208 * \ln(3) * \ln(8) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + 1/2304 * \ln(3) * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} \\
& + 1/162 * \ln(3) * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 25/1296 * \ln(3) * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} \\
& + 1/81 * \ln(3) * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 8} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 83/55296 * \ln(4) * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} \\
& - 5/27 * \ln(4) * F^{\wedge -3} * \cos x^* \pi^{\wedge -2} * L8r * m38^{\wedge -1} + 50/27 * \ln(4) * F^{\wedge -3} * \cos x^* \pi^{\wedge -2} * L8r * m83^{\wedge -1} \\
& - 1/3 * \ln(4) * F^{\wedge -3} * \cos x^* \pi^{\wedge -2} * L7r * m38^{\wedge -1} + 65/18 * \ln(4) * F^{\wedge -3} * \cos x^* \pi^{\wedge -2} * L7r * m83^{\wedge -1} + 1/9 * \ln(4) * F^{\wedge -3} * \cos x^* \pi^{\wedge -2} * L7r * m83^{\wedge -1}
\end{aligned}$$

$$\begin{aligned}
& 2^*L6r^*m38^{\wedge}-1 - 2/9*\ln(4)*F^{\wedge}-3*\cosx*\pi^{\wedge}-2*L6r^*m83^{\wedge}-1 + 1/27*\ln(4)*F^{\wedge}- \\
& 3*\cosx*\pi^{\wedge}-2*L5r^*m38^{\wedge}-1 - 109/216*\ln(4)*F^{\wedge}-3*\cosx*\pi^{\wedge}-2*L5r^*m83^{\wedge}-1 \\
& - 1/18*\ln(4)*F^{\wedge}-3*\cosx*\pi^{\wedge}-2*L4r^*m38^{\wedge}-1 + 5/72*\ln(4)*F^{\wedge}-3*\cosx*\pi^{\wedge}- \\
& 2*L4r^*m83^{\wedge}-1 + 1/48*\ln(4)*F^{\wedge}-3*\cosx*\pi^{\wedge}-2*L3r^*m83^{\wedge}-1 - 331/165888*\ln(4)*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 + 1/6*\ln(4)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L8r^*m38^{\wedge}-1 - \\
& 8/9*\ln(4)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 + 4/9*\ln(4)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}- \\
& 2*L7r^*m38^{\wedge}-1 - 25/9*\ln(4)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L7r^*m83^{\wedge}-1 - 1/6*\ln(4)*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L6r^*m38^{\wedge}-1 + 19/18*\ln(4)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L6r^*m83^{\wedge}- \\
& 1 - 1/108*\ln(4)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L5r^*m38^{\wedge}-1 + 13/72*\ln(4)*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L5r^*m83^{\wedge}-1 + 1/12*\ln(4)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L4r^*m38^{\wedge}- \\
& 1 - 3/8*\ln(4)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L4r^*m83^{\wedge}-1 - 13/144*\ln(4)*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*\pi^{\wedge}-2*L3r^*m83^{\wedge}-1 - 1/2304*\ln(4)*F^{\wedge}-3*\sinx^2*\cosx*\pi^{\wedge}- \\
& 4*m83^{\wedge}-1 - 68/9*\ln(4)*F^{\wedge}-3*\sinx^2*\cosx*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 - 12*\ln(4)*F^{\wedge}- \\
& 3*\sinx^2*\cosx*\pi^{\wedge}-2*L7r^*m83^{\wedge}-1 - 8/3*\ln(4)*F^{\wedge}-3*\sinx^2*\cosx*\pi^{\wedge}-2*L6r^*m83^{\wedge}- \\
& 1 + 13/9*\ln(4)*F^{\wedge}-3*\sinx^2*\cosx*\pi^{\wedge}-2*L5r^*m83^{\wedge}-1 + \ln(4)*F^{\wedge}-3*\sinx^2*\cosx*\pi^{\wedge}- \\
& 2*L4r^*m83^{\wedge}-1 + 1/6*\ln(4)*F^{\wedge}-3*\sinx^2*\cosx*\pi^{\wedge}-2*L3r^*m83^{\wedge}-1 + 89/20736*\ln(4)*F^{\wedge}- \\
& 3*\sinx^3*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 - 28/27*\ln(4)*F^{\wedge}-3*\sinx^3*\sqrt{3}*\pi^{\wedge}-2*L8r^*m38^{\wedge}- \\
& 1 + 32/27*\ln(4)*F^{\wedge}-3*\sinx^3*\sqrt{3}*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 - 32/9*\ln(4)*F^{\wedge}- \\
& 3*\sinx^3*\sqrt{3}*\pi^{\wedge}-2*L7r^*m38^{\wedge}-1 + 52/9*\ln(4)*F^{\wedge}-3*\sinx^3*\sqrt{3}*\pi^{\wedge}- \\
& 2*L7r^*m83^{\wedge}-1 + 4/9*\ln(4)*F^{\wedge}-3*\sinx^3*\sqrt{3}*\pi^{\wedge}-2*L6r^*m38^{\wedge}-1 - 20/9*\ln(4)*F^{\wedge}- \\
& 3*\sinx^3*\sqrt{3}*\pi^{\wedge}-2*L6r^*m83^{\wedge}-1 - 2/27*\ln(4)*F^{\wedge}-3*\sinx^3*\sqrt{3}*\pi^{\wedge}- \\
& 2*L5r^*m38^{\wedge}-1 + 1/27*\ln(4)*F^{\wedge}-3*\sinx^3*\sqrt{3}*\pi^{\wedge}-2*L5r^*m83^{\wedge}-1 - 2/9*\ln(4)*F^{\wedge}- \\
& 3*\sinx^3*\sqrt{3}*\pi^{\wedge}-2*L4r^*m38^{\wedge}-1 + 7/9*\ln(4)*F^{\wedge}-3*\sinx^3*\sqrt{3}*\pi^{\wedge}- \\
& 2*L4r^*m83^{\wedge}-1 + 1/6*\ln(4)*F^{\wedge}-3*\sinx^3*\sqrt{3}*\pi^{\wedge}-2*L3r^*m83^{\wedge}-1 - 1/648*\ln(4)*F^{\wedge}- \\
& 3*\sinx^5*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 + 32/27*\ln(4)*F^{\wedge}-3*\sinx^5*\sqrt{3}*\pi^{\wedge}-2*L8r^*m38^{\wedge}- \\
& 1 - 16/9*\ln(4)*F^{\wedge}-3*\sinx^5*\sqrt{3}*\pi^{\wedge}-2*L8r^*m83^{\wedge}-1 + 32/9*\ln(4)*F^{\wedge}- \\
& 3*\sinx^5*\sqrt{3}*\pi^{\wedge}-2*L7r^*m38^{\wedge}-1 - 16/3*\ln(4)*F^{\wedge}-3*\sinx^5*\sqrt{3}*\pi^{\wedge}- \\
& 2*L7r^*m83^{\wedge}-1 - 1/6912*\ln(4)^2*F^{\wedge}-3*\cosx*\pi^{\wedge}-4*m38^{\wedge}-1 + 13/13824*\ln(4)^2*F^{\wedge}- \\
& 3*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 - 43/41472*\ln(4)^2*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 \\
& - 1/1152*\ln(4)^2*F^{\wedge}-3*\sinx^2*\cosx*\pi^{\wedge}-4*m38^{\wedge}-1 + 7/6912*\ln(4)^2*F^{\wedge}- \\
& 3*\sinx^2*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 + 5/3456*\ln(4)^2*F^{\wedge}-3*\sinx^3*\sqrt{3}*\pi^{\wedge}- \\
& 4*m38^{\wedge}-1 - 5/6912*\ln(4)^2*F^{\wedge}-3*\sinx^3*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 + 1/288*\ln(4)^2*F^{\wedge}- \\
& 3*\sinx^4*\cosx*\pi^{\wedge}-4*m38^{\wedge}-1 - 1/192*\ln(4)^2*F^{\wedge}-3*\sinx^4*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 \\
& - 1/864*\ln(4)^2*F^{\wedge}-3*\sinx^5*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 + 1/576*\ln(4)^2*F^{\wedge}- \\
& 3*\sinx^5*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 + 1/4608*\ln(4)*\ln(6)*F^{\wedge}-3*\cosx*\pi^{\wedge}-4*m38^{\wedge}-1 \\
& - 17/27648*\ln(4)*\ln(6)*F^{\wedge}-3*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 - 1/4608*\ln(4)*\ln(6)*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 + 569/414720*\ln(4)*\ln(6)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}- \\
& 4*m83^{\wedge}-1 + 1/576*\ln(4)*\ln(6)*F^{\wedge}-3*\sinx^2*\cosx*\pi^{\wedge}-4*m38^{\wedge}-1 - 13/3456*\ln(4)*\ln(6)*F^{\wedge}- \\
& 3*\sinx^2*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 - 1/144*\ln(4)*\ln(6)*F^{\wedge}-3*\sinx^4*\cosx*\pi^{\wedge}- \\
& 4*m38^{\wedge}-1 + 1/96*\ln(4)*\ln(6)*F^{\wedge}-3*\sinx^4*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 - 1/10368*\ln(4)*\ln(8)*F^{\wedge}- \\
& 3*\cosx*\pi^{\wedge}-4*m38^{\wedge}-1 + 1141/829440*\ln(4)*\ln(8)*F^{\wedge}-3*\cosx*\pi^{\wedge}-4*m83^{\wedge}-1 + \\
& 1/20736*\ln(4)*\ln(8)*F^{\wedge}-3*\sinx*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 - 293/207360*\ln(4)*\ln(8)*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 - 59/11520*\ln(4)*\ln(8)*F^{\wedge}-3*\sinx^2*\cosx*\pi^{\wedge}- \\
& 4*m83^{\wedge}-1 + 5/3456*\ln(4)*\ln(8)*F^{\wedge}-3*\sinx^3*\sqrt{3}*\pi^{\wedge}-4*m38^{\wedge}-1 + 263/103680*\ln(4)*\ln(8)*F^{\wedge}- \\
& 3*\sinx^3*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 - 1/324*\ln(4)*\ln(8)*F^{\wedge}-3*\sinx^5*\sqrt{3}*\pi^{\wedge}- \\
& 4*m38^{\wedge}-1 - 5/2592*\ln(4)*\ln(8)*F^{\wedge}-3*\sinx^5*\sqrt{3}*\pi^{\wedge}-4*m83^{\wedge}-1 + 1/216*\ln(4)*\ln(8)*F^{\wedge}-
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^{\wedge} 6^* \cos x^* \pi^{\wedge} - 4^* m 83^{\wedge} - 1 + 1/648 * \ln(4) * \ln(8) * F^{\wedge} - 3^* \sin x^{\wedge} 7^* \sqrt{3} * \pi^{\wedge} - \\
& 4^* m 38^{\wedge} - 1 + 1/1296 * \ln(4) * \ln(8) * F^{\wedge} - 3^* \sin x^{\wedge} 7^* \sqrt{3} * \pi^{\wedge} - 4^* m 83^{\wedge} - 1 - 77/55296 * \ln(6) * F^{\wedge} - \\
& 3^* \cos x^* \pi^{\wedge} - 4^* m 83^{\wedge} - 1 + 5/27 * \ln(6) * F^{\wedge} - 3^* \cos x^* \pi^{\wedge} - 2^* L 8 r^* m 38^{\wedge} - 1 + 1/27 * \ln(6) * F^{\wedge} - \\
& 3^* \cos x^* \pi^{\wedge} - 2^* L 8 r^* m 83^{\wedge} - 1 + 1/3 * \ln(6) * F^{\wedge} - 3^* \cos x^* \pi^{\wedge} - 2^* L 7 r^* m 38^{\wedge} - 1 - \\
& 11/18 * \ln(6) * F^{\wedge} - 3^* \cos x^* \pi^{\wedge} - 2^* L 7 r^* m 83^{\wedge} - 1 - 1/9 * \ln(6) * F^{\wedge} - 3^* \cos x^* \pi^{\wedge} - \\
& 2^* L 6 r^* m 38^{\wedge} - 1 + 8/9 * \ln(6) * F^{\wedge} - 3^* \cos x^* \pi^{\wedge} - 2^* L 6 r^* m 83^{\wedge} - 1 - 1/27 * \ln(6) * F^{\wedge} - \\
& 3^* \cos x^* \pi^{\wedge} - 2^* L 5 r^* m 38^{\wedge} - 1 + 31/216 * \ln(6) * F^{\wedge} - 3^* \cos x^* \pi^{\wedge} - 2^* L 5 r^* m 83^{\wedge} - 1 \\
& + 1/18 * \ln(6) * F^{\wedge} - 3^* \cos x^* \pi^{\wedge} - 2^* L 4 r^* m 38^{\wedge} - 1 - 23/72 * \ln(6) * F^{\wedge} - 3^* \cos x^* \pi^{\wedge} - \\
& 2^* L 4 r^* m 83^{\wedge} - 1 - 1/16 * \ln(6) * F^{\wedge} - 3^* \cos x^* \pi^{\wedge} - 2^* L 3 r^* m 83^{\wedge} - 1 + 211/165888 * \ln(6) * F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3} * \pi^{\wedge} - 4^* m 83^{\wedge} - 1 - 1/6 * \ln(6) * F^{\wedge} - 3^* \sin x^* \sqrt{3} * \pi^{\wedge} - 2^* L 8 r^* m 38^{\wedge} - 1 - \\
& 22/27 * \ln(6) * F^{\wedge} - 3^* \sin x^* \sqrt{3} * \pi^{\wedge} - 2^* L 8 r^* m 83^{\wedge} - 1 - 4/9 * \ln(6) * F^{\wedge} - 3^* \sin x^* \sqrt{3} * \pi^{\wedge} - \\
& 2^* L 7 r^* m 38^{\wedge} - 1 - 8/9 * \ln(6) * F^{\wedge} - 3^* \sin x^* \sqrt{3} * \pi^{\wedge} - 2^* L 7 r^* m 83^{\wedge} - 1 + 1/6 * \ln(6) * F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3} * \pi^{\wedge} - 2^* L 6 r^* m 38^{\wedge} - 1 - 3/2 * \ln(6) * F^{\wedge} - 3^* \sin x^* \sqrt{3} * \pi^{\wedge} - 2^* L 6 r^* m 83^{\wedge} - \\
& 1 + 1/108 * \ln(6) * F^{\wedge} - 3^* \sin x^* \sqrt{3} * \pi^{\wedge} - 2^* L 5 r^* m 38^{\wedge} - 1 - 35/216 * \ln(6) * F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3} * \pi^{\wedge} - 2^* L 5 r^* m 83^{\wedge} - 1 - 1/12 * \ln(6) * F^{\wedge} - 3^* \sin x^* \sqrt{3} * \pi^{\wedge} - 2^* L 4 r^* m 38^{\wedge} - \\
& 1 + 13/24 * \ln(6) * F^{\wedge} - 3^* \sin x^* \sqrt{3} * \pi^{\wedge} - 2^* L 4 r^* m 83^{\wedge} - 1 + 5/144 * \ln(6) * F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3} * \pi^{\wedge} - 2^* L 3 r^* m 83^{\wedge} - 1 - 1/2304 * \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 4^* m 83^{\wedge} - 1 - 68/9 * \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - 2^* L 8 r^* m 83^{\wedge} - 1 - 12 * \ln(6) * F^{\wedge} - \\
& 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - 2^* L 7 r^* m 83^{\wedge} - 1 - 8/3 * \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - 2^* L 6 r^* m 83^{\wedge} - \\
& 1 + 13/9 * \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - 2^* L 5 r^* m 83^{\wedge} - 1 + \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 2^* L 4 r^* m 83^{\wedge} - 1 + 1/6 * \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - 2^* L 3 r^* m 83^{\wedge} - 1 - 89/20736 * \ln(6) * F^{\wedge} - \\
& 3^* \sin x^{\wedge} 3^* \sqrt{3} * \pi^{\wedge} - 4^* m 83^{\wedge} - 1 + 28/27 * \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 3^* \sqrt{3} * \pi^{\wedge} - 2^* L 8 r^* m 38^{\wedge} - \\
& 1 - 32/27 * \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 3^* \sqrt{3} * \pi^{\wedge} - 2^* L 8 r^* m 83^{\wedge} - 1 + 32/9 * \ln(6) * F^{\wedge} - \\
& 3^* \sin x^{\wedge} 3^* \sqrt{3} * \pi^{\wedge} - 2^* L 7 r^* m 38^{\wedge} - 1 - 52/9 * \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 3^* \sqrt{3} * \pi^{\wedge} - \\
& 2^* L 7 r^* m 83^{\wedge} - 1 - 4/9 * \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 3^* \sqrt{3} * \pi^{\wedge} - 2^* L 6 r^* m 38^{\wedge} - 1 + 20/9 * \ln(6) * F^{\wedge} - \\
& 3^* \sin x^{\wedge} 3^* \sqrt{3} * \pi^{\wedge} - 2^* L 6 r^* m 83^{\wedge} - 1 + 2/27 * \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 3^* \sqrt{3} * \pi^{\wedge} - \\
& 2^* L 5 r^* m 38^{\wedge} - 1 - 1/27 * \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 3^* \sqrt{3} * \pi^{\wedge} - 2^* L 5 r^* m 83^{\wedge} - 1 + 2/9 * \ln(6) * F^{\wedge} - \\
& 3^* \sin x^{\wedge} 3^* \sqrt{3} * \pi^{\wedge} - 2^* L 4 r^* m 38^{\wedge} - 1 - 7/9 * \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 3^* \sqrt{3} * \pi^{\wedge} - \\
& 2^* L 4 r^* m 83^{\wedge} - 1 - 1/6 * \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 3^* \sqrt{3} * \pi^{\wedge} - 2^* L 3 r^* m 83^{\wedge} - 1 + 1/648 * \ln(6) * F^{\wedge} - \\
& 3^* \sin x^{\wedge} 5^* \sqrt{3} * \pi^{\wedge} - 4^* m 83^{\wedge} - 1 - 32/27 * \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 5^* \sqrt{3} * \pi^{\wedge} - 2^* L 8 r^* m 38^{\wedge} - \\
& 1 + 16/9 * \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 5^* \sqrt{3} * \pi^{\wedge} - 2^* L 8 r^* m 83^{\wedge} - 1 - 32/9 * \ln(6) * F^{\wedge} - \\
& 3^* \sin x^{\wedge} 5^* \sqrt{3} * \pi^{\wedge} - 2^* L 7 r^* m 38^{\wedge} - 1 + 16/3 * \ln(6) * F^{\wedge} - 3^* \sin x^{\wedge} 5^* \sqrt{3} * \pi^{\wedge} - \\
& 2^* L 7 r^* m 83^{\wedge} - 1 - 1/13824 * \ln(6)^{\wedge} 2 * F^{\wedge} - 3^* \cos x^* \pi^{\wedge} - 4^* m 38^{\wedge} - 1 - 1/9216 * \ln(6)^{\wedge} 2 * F^{\wedge} - \\
& 3^* \cos x^* \pi^{\wedge} - 4^* m 83^{\wedge} - 1 + 1/4608 * \ln(6)^{\wedge} 2 * F^{\wedge} - 3^* \sin x^* \sqrt{3} * \pi^{\wedge} - 4^* m 38^{\wedge} - 1 \\
& + 179/414720 * \ln(6)^{\wedge} 2 * F^{\wedge} - 3^* \sin x^* \sqrt{3} * \pi^{\wedge} - 4^* m 83^{\wedge} - 1 - 1/1152 * \ln(6)^{\wedge} 2 * F^{\wedge} - \\
& 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - 4^* m 38^{\wedge} - 1 + 7/6912 * \ln(6)^{\wedge} 2 * F^{\wedge} - 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - 4^* m 83^{\wedge} - \\
& 1 - 5/3456 * \ln(6)^{\wedge} 2 * F^{\wedge} - 3^* \sin x^{\wedge} 3^* \sqrt{3} * \pi^{\wedge} - 4^* m 38^{\wedge} - 1 + 5/6912 * \ln(6)^{\wedge} 2 * F^{\wedge} - \\
& 3^* \sin x^{\wedge} 3^* \sqrt{3} * \pi^{\wedge} - 4^* m 83^{\wedge} - 1 + 1/288 * \ln(6)^{\wedge} 2 * F^{\wedge} - 3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} - 4^* m 38^{\wedge} - \\
& 1 - 1/192 * \ln(6)^{\wedge} 2 * F^{\wedge} - 3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} - 4^* m 83^{\wedge} - 1 + 1/864 * \ln(6)^{\wedge} 2 * F^{\wedge} - \\
& 3^* \sin x^{\wedge} 5^* \sqrt{3} * \pi^{\wedge} - 4^* m 38^{\wedge} - 1 - 1/576 * \ln(6)^{\wedge} 2 * F^{\wedge} - 3^* \sin x^{\wedge} 5^* \sqrt{3} * \pi^{\wedge} - 4^* m 83^{\wedge} - \\
& 1 + 1/10368 * \ln(6) * \ln(8) * F^{\wedge} - 3^* \cos x^* \pi^{\wedge} - 4^* m 38^{\wedge} - 1 - 379/829440 * \ln(6) * \ln(8) * F^{\wedge} - \\
& 3^* \cos x^* \pi^{\wedge} - 4^* m 83^{\wedge} - 1 - 1/20736 * \ln(6) * \ln(8) * F^{\wedge} - 3^* \sin x^* \sqrt{3} * \pi^{\wedge} - 4^* m 38^{\wedge} - 1 + \\
& 5/4608 * \ln(6) * \ln(8) * F^{\wedge} - 3^* \sin x^* \sqrt{3} * \pi^{\wedge} - 4^* m 83^{\wedge} - 1 - 59/11520 * \ln(6) * \ln(8) * F^{\wedge} - \\
& 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - 4^* m 83^{\wedge} - 1 - 5/3456 * \ln(6) * \ln(8) * F^{\wedge} - 3^* \sin x^{\wedge} 3^* \sqrt{3} * \pi^{\wedge} - \\
& 4^* m 38^{\wedge} - 1 - 263/103680 * \ln(6) * \ln(8) * F^{\wedge} - 3^* \sin x^{\wedge} 3^* \sqrt{3} * \pi^{\wedge} - 4^* m 83^{\wedge} - 1 + \\
& 1/324 * \ln(6) * \ln(8) * F^{\wedge} - 3^* \sin x^{\wedge} 5^* \sqrt{3} * \pi^{\wedge} - 4^* m 38^{\wedge} - 1 + 5/2592 * \ln(6) * \ln(8) * F^{\wedge} -
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/216 * \ln(6) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} - 1/648 * \ln(6) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-1} - 1/1296 * \ln(6) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/10368 * \ln(8) * F^{-3} * \cos x * \pi^{-4} * m83^{-1} \\
& + 5/9 * \ln(8) * F^{-3} * \cos x * \pi^{-2} * L8r * m83^{-1} + 7/9 * \ln(8) * F^{-3} * \cos x * \pi^{-2} * L7r * m83^{-1} + 2/9 * \ln(8) * F^{-3} * \cos x * \pi^{-2} * L6r * m83^{-1} - 2/27 * \ln(8) * F^{-3} * \cos x * \pi^{-2} * L5r * m83^{-1} - 1/12 * \ln(8) * F^{-3} * \cos x * \pi^{-2} * L4r * m83^{-1} + 1/3888 * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} - 8/9 * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L8r * m83^{-1} - 16/9 * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L7r * m83^{-1} + 2/81 * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L5r * m83^{-1} - 1/432 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 8 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-1} - 112/9 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-1} - 32/9 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-1} + 10/9 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-1} + 4/3 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-1} + 1/324 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 272/27 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-1} + 64/3 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-1} + 32/9 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L6r * m83^{-1} - 28/27 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L5r * m83^{-1} - 4/3 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L4r * m83^{-1} - 128/27 * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L8r * m83^{-1} - 128/9 * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L7r * m83^{-1} - 17/82944 * \ln(8)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-1} + 47/124416 * \ln(8)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 143/41472 * \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 23/2592 * \ln(8)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 11/864 * \ln(8)^2 * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} - 1/162 * \ln(8)^2 * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-1} + 103/276480 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \cos x * \pi^{-4} - 1/1536 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} + 1/2160 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} + 1/1080 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} - 29/184320 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} + 7/15360 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} + 1/3072 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} - 5/36864 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \cos x * \pi^{-4} - 13/138240 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} + 41/46080 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} + 1/3072 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} + 103/61440 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \cos x * \pi^{-4} - 7/30720 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} + 7/15360 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} - 1/3072 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} + 71/46080 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \cos x * \pi^{-4} - 91/552960 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} + 41/46080 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} - 1/3072 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} + 119/138240 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \cos x * \pi^{-4} + 77/207360 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} + 1/720 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} - 1/1080 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4}) \\
& + \text{mud}^2 * \text{mkp}^2 * (+ 5/3456 * F^{-3} * \cos x * \pi^{-4} * m83^{-2} + 5/20736 * F^{-3} * \cos x * \pi^{-2} * m83^{-2} - 512/9 * F^{-3} * \cos x * L8r^2 * m83^{-2} - 1024/9 * F^{-3} * \cos x * L7r * L8r * m83^{-2} + 512/3 * F^{-3} * \cos x * L7r^2 * m83^{-2} + 1024/9 * F^{-3} * \cos x * L6r * L8r * m83^{-2} + 1024/3 * F^{-3} * \cos x * L6r * L7r * m83^{-2} - 2048/27 * F^{-3} * \cos x * L5r * L8r * m83^{-2} - 2048/9 * F^{-3} * \cos x * L5r * L7r * m83^{-2} - 512/9 * F^{-3} * \cos x * L4r * L8r * m83^{-2} - 512/3 * F^{-3} * \cos x * L4r * L7r * m83^{-2} + 5/3456 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} + 5/20736 * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * m83^{-2} + 4096/9 * F^{-3} * \sin x * \sqrt{3} * L8r^2 * m83^{-2} + 28672/9 * F^{-3} * \sin x * \sqrt{3} * L7r * L8r * m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2 + 16384/3^*F^{-3}*\sin x*\sqrt{3}^*L7r^2*m83^{-2} - 4096/9^*F^{-3}*\sin x*\sqrt{3}^*L6r^*L8r^*m83^{-2} \\
& - 4096/3^*F^{-3}*\sin x*\sqrt{3}^*L6r^*L7r^*m83^{-2} + 2048/27^*F^{-3}*\sin x*\sqrt{3}^*L5r^*L8r^*m83^{-2} \\
& + 2048/9^*F^{-3}*\sin x*\sqrt{3}^*L5r^*L7r^*m83^{-2} - 1024/9^*F^{-3}*\sin x*\sqrt{3}^*L4r^*L8r^*m83^{-2} \\
& - 1024/3^*F^{-3}*\sin x*\sqrt{3}^*L4r^*L7r^*m83^{-2} - 16384/3^*F^{-3}*\sin x^2*\cos x^*L8r^2*m83^{-2} \\
& - 278528/9^*F^{-3}*\sin x^2*\cos x^*L7r^*L8r^*m83^{-2} - 131072/3^*F^{-3}*\sin x^2*\cos x^*L7r^2*m83^{-2} \\
& - 16384/9^*F^{-3}*\sin x^2*\cos x^*L6r^*L8r^*m83^{-2} - 16384/3^*F^{-3}*\sin x^2*\cos x^*L6r^*L7r^*m83^{-2} \\
& + 8192/27^*F^{-3}*\sin x^2*\cos x^*L5r^*L8r^*m83^{-2} + 8192/9^*F^{-3}*\sin x^2*\cos x^*L5r^*L7r^*m83^{-2} \\
& + 8192/9^*F^{-3}*\sin x^2*\cos x^*L4r^*L8r^*m83^{-2} + 8192/3^*F^{-3}*\sin x^2*\cos x^*L4r^*L7r^*m83^{-2} \\
& + 65536/9^*F^{-3}*\sin x^4*\cos x^*L8r^2*m83^{-2} + 131072/3^*F^{-3}*\sin x^4*\cos x^*L7r^*L8r^*m83^{-2} \\
& + 65536^*F^{-3}*\sin x^4*\cos x^*L7r^2*m83^{-2} + 8/9^*C^*F^{-3}*\cos x^*\pi^{-2}^*L8r^*m83^{-2} \\
& + 8/3^*C^*F^{-3}*\cos x^*\pi^{-2}^*L7r^*m83^{-2} + 8/9^*C^*F^{-3}*\sin x*\sqrt{3}^*\pi^{-2}^*L8r^*m83^{-2} \\
& + 8/3^*C^*F^{-3}*\sin x*\sqrt{3}^*\pi^{-2}^*L7r^*m83^{-2} - 5/5184^*C^*\ln(3)^*F^{-3}*\cos x^*\pi^{-4}^*m83^{-2} \\
& + 1/2592^*C^*\ln(3)^*F^{-3}*\sin x*\sqrt{3}^*\pi^{-4}^*m83^{-2} + 1/162^*C^*\ln(3)^*F^{-3}*\sin x^2*\cos x^*\pi^{-4}^*m83^{-2} \\
& + 1/1296^*C^*\ln(4)^*F^{-3}*\sin x*\sqrt{3}^*\pi^{-4}^*m83^{-2} - 1/576^*C^*\ln(6)^*F^{-3}*\cos x^*\pi^{-4}^*m83^{-2} \\
& - 13/5184^*C^*\ln(6)^*F^{-3}*\sin x*\sqrt{3}^*\pi^{-4}^*m83^{-2} - 1/5184^*C^*\ln(8)^*F^{-3}*\cos x^*\pi^{-4}^*m83^{-2} \\
& - 1/648^*C^*\ln(8)^*F^{-3}*\sin x*\sqrt{3}^*\pi^{-4}^*m83^{-2} - 1/162^*C^*\ln(8)^*F^{-3}*\sin x^2*\cos x^*\pi^{-4}^*m83^{-2} \\
& - 16/81^*\ln(3)^*F^{-3}*\cos x^*\pi^{-2}^*L8r^*m83^{-2} - 8/9^*\ln(3)^*F^{-3}*\cos x^*\pi^{-2}^*L7r^*m83^{-2} \\
& + 4/81^*\ln(3)^*F^{-3}*\cos x^*\pi^{-2}^*L5r^*m83^{-2} + 2/27^*\ln(3)^*F^{-3}*\cos x^*\pi^{-2}^*L4r^*m83^{-2} \\
& - 40/81^*\ln(3)^*F^{-3}*\sin x*\sqrt{3}^*\pi^{-2}^*L8r^*m83^{-2} - 40/27^*\ln(3)^*F^{-3}*\sin x*\sqrt{3}^*\pi^{-2}^*L7r^*m83^{-2} \\
& + 8/27^*\ln(3)^*F^{-3}*\sin x*\sqrt{3}^*\pi^{-2}^*L6r^*m83^{-2} - 8/81^*\ln(3)^*F^{-3}*\sin x*\sqrt{3}^*\pi^{-2}^*L5r^*m83^{-2} \\
& + 32/9^*\ln(3)^*F^{-3}*\sin x^2*\cos x^*\pi^{-2}^*L8r^*m83^{-2} - 32/27^*\ln(3)^*F^{-3}*\sin x^2*\cos x^*\pi^{-2}^*L6r^*m83^{-2} \\
& - 16/27^*\ln(3)^*F^{-3}*\sin x^2*\cos x^*\pi^{-2}^*L4r^*m83^{-2} + 1024/27^*\ln(3)^*F^{-3}*\sin x^4*\cos x^*\pi^{-2}^*L7r^*m83^{-2} \\
& + 64/27^*\ln(3)^*F^{-3}*\sin x^4*\cos x^*\pi^{-2}^*L6r^*m83^{-2} - 32/81^*\ln(3)^*F^{-3}*\sin x^4*\cos x^*\pi^{-2}^*L5r^*m83^{-2} \\
& - 32/27^*\ln(3)^*F^{-3}*\sin x^4*\cos x^*\pi^{-2}^*L4r^*m83^{-2} - 512/27^*\ln(3)^*F^{-3}*\sin x^6*\cos x^*\pi^{-2}^*L8r^*m83^{-2} \\
& - 512/9^*\ln(3)^*F^{-3}*\sin x^6*\cos x^*\pi^{-2}^*L7r^*m83^{-2} + 1/5184^*\ln(3)^2^*F^{-3}*\cos x^*\pi^{-4}^*m83^{-2} \\
& - 1/15552^*\ln(3)^2^*F^{-3}*\sin x*\sqrt{3}^*\pi^{-4}^*m83^{-2} - 5/3888^*\ln(3)^2^*F^{-3}*\sin x^2*\cos x^*\pi^{-4}^*m83^{-2} \\
& - 1/324^*\ln(3)^2^*F^{-3}*\sin x^4*\cos x^*\pi^{-4}^*m83^{-2} - 2/243^*\ln(3)^2^*F^{-3}*\sin x^6*\cos x^*\pi^{-4}^*m83^{-2} \\
& + 1/81^*\ln(3)^2^*F^{-3}*\sin x^8*\cos x^*\pi^{-4}^*m83^{-2} - 1/2304^*\ln(3)^*\ln(4)^*F^{-3}*\cos x^*\pi^{-4}^*m83^{-2} \\
& + 113/62208^*\ln(3)^*\ln(4)^*F^{-3}*\sin x*\sqrt{3}^*\pi^{-4}^*m83^{-2} - 11/2592^*\ln(3)^*\ln(4)^*F^{-3}*\sin x^2*\cos x^*\pi^{-4}^*m83^{-2} \\
& - 1/2592^*\ln(3)^*\ln(4)^*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-4}^*m83^{-2} - 7/648^*\ln(3)^*\ln(4)^*F^{-3}*\sin x^4*\cos x^*\pi^{-4}^*m83^{-2} \\
& - 37/1944^*\ln(3)^*\ln(4)^*F^{-3}*\sin x^5*\sqrt{3}^*\pi^{-4}^*m83^{-2} + 1/54^*\ln(3)^*\ln(4)^*F^{-3}*\sin x^6*\cos x^*\pi^{-4}^*m83^{-2} \\
& + 19/20736^*\ln(3)^*\ln(6)^*F^{-3}*\cos x^*\pi^{-4}^*m83^{-2} - 41/62208^*\ln(3)^*\ln(6)^*F^{-3}*\sin x*\sqrt{3}^*\pi^{-4}^*m83^{-2} \\
& - 11/2592^*\ln(3)^*\ln(6)^*F^{-3}*\sin x^2*\cos x^*\pi^{-4}^*m83^{-2} + 1/2592^*\ln(3)^*\ln(6)^*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-4}^*m83^{-2} \\
& - 7/648^*\ln(3)^*\ln(6)^*F^{-3}*\sin x^4*\cos x^*\pi^{-4}^*m83^{-2} + 37/1944^*\ln(3)^*\ln(6)^*F^{-3}*\sin x^5*\sqrt{3}^*\pi^{-4}^*m83^{-2} \\
& + 1/54^*\ln(3)^*\ln(6)^*F^{-3}*\sin x^6*\cos x^*\pi^{-4}^*m83^{-2} - 1/7776^*\ln(3)^*\ln(8)^*F^{-3}*\cos x^*\pi^{-4}^*m83^{-2} \\
& + 5/7776^*\ln(3)^*\ln(8)^*F^{-3}*\sin x*\sqrt{3}^*\pi^{-4}^*m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& - 1/648*\ln(3)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 1/81*\ln(3)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 10/243*\ln(3)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} - 2/81*\ln(3)*\ln(8)*F^{-3}*\sin x^8*\cos x*\pi^{-4}*m83^{-2} - 13/27*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L8r*m83^{-2} - 5/3*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L7r*m83^{-2} + 5/9*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L6r*m83^{-2} - 4/27*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L5r*m83^{-2} + 1/18*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L4r*m83^{-2} - 67/27*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 19/3*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 11/9*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} + 2/9*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} + 11/54*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} + 80/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} + 224/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} + 16/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} - 8/27*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} - 8/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} + 1232/81*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 1184/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 16/9*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} - 8/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} - 8/9*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} - 128/9*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} - 128/3*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} - 128/9*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 128/3*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 1/1728*\ln(4)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 1/10368*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/216*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 1/1296*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/72*\ln(4)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 1/72*\ln(4)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/4608*\ln(4)*\ln(6)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} + 5/1536*\ln(4)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/216*\ln(4)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 1/18*\ln(4)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 17/20736*\ln(4)*\ln(8)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} + 121/62208*\ln(4)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 7/864*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 157/7776*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 19/648*\ln(4)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 73/1944*\ln(4)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/54*\ln(4)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} - 1/54*\ln(4)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} + 17/27*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L8r*m83^{-2} + 17/9*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L7r*m83^{-2} - 7/9*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L6r*m83^{-2} + 8/27*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L5r*m83^{-2} + 1/18*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L4r*m83^{-2} + 7/27*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 11/9*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 19/9*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} - 10/27*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} + 1/54*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} + 80/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} + 224/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} + 16/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} - 8/27*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} - 8/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} - 1232/81*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 1184/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 16/9*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} + 8/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} + 8/9*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} - 128/9*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} - 128/3*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} + 128/9*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 128/3*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} -
\end{aligned}$$

$$\begin{aligned}
& 7/6912 \ln(6)^2 F^{-3} \cos^x \pi^{-4} m83^{-2} - 23/41472 \ln(6)^2 F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-2} + 1/216 \ln(6)^2 F^{-3} \sin^x \cos^x \pi^{-4} m83^{-2} + 17/1296 \ln(6)^2 F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-2} - 1/72 \ln(6)^2 F^{-3} \sin^x \cos^x \pi^{-4} m83^{-2} - 1/72 \ln(6)^2 F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-2} - 31/20736 \ln(6) \ln(8) F^{-3} \cos^x \pi^{-4} m83^{-2} - 37/62208 \ln(6) \ln(8) F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-2} - 7/864 \ln(6) \ln(8) F^{-3} \sin^x \cos^x \pi^{-4} m83^{-2} + 157/7776 \ln(6) \ln(8) F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-2} + 19/648 \ln(6) \ln(8) F^{-3} \sin^x \cos^x \pi^{-4} m83^{-2} - 73/1944 \ln(6) \ln(8) F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-2} - 1/54 \ln(6) \ln(8) F^{-3} \sin^x \cos^x \pi^{-4} m83^{-2} + 8/27 \ln(8) F^{-3} \cos^x \pi^{-2} L8r m83^{-2} + 8/9 \ln(8) F^{-3} \cos^x \pi^{-2} L7r m83^{-2} - 4/27 \ln(8) F^{-3} \cos^x \pi^{-2} L6r m83^{-2} + 4/81 \ln(8) F^{-3} \cos^x \pi^{-2} L5r m83^{-2} - 40/81 \ln(8) F^{-3} \sin^x \sqrt{3} \pi^{-2} L8r m83^{-2} - 56/27 \ln(8) F^{-3} \sin^x \sqrt{3} \pi^{-2} L7r m83^{-2} + 8/27 \ln(8) F^{-3} \sin^x \sqrt{3} \pi^{-2} L6r m83^{-2} + 4/27 \ln(8) F^{-3} \sin^x \sqrt{3} \pi^{-2} L4r m83^{-2} + 928/81 \ln(8) F^{-3} \sin^x \cos^x \pi^{-2} L8r m83^{-2} + 800/27 \ln(8) F^{-3} \sin^x \cos^x \pi^{-2} L7r m83^{-2} + 32/9 \ln(8) F^{-3} \sin^x \cos^x \pi^{-2} L6r m83^{-2} - 32/81 \ln(8) F^{-3} \sin^x \cos^x \pi^{-2} L5r m83^{-2} - 16/27 \ln(8) F^{-3} \sin^x \cos^x \pi^{-2} L4r m83^{-2} - 2624/81 \ln(8) F^{-3} \sin^x \cos^x \pi^{-2} L8r m83^{-2} - 2560/27 \ln(8) F^{-3} \sin^x \cos^x \pi^{-2} L7r m83^{-2} - 64/27 \ln(8) F^{-3} \sin^x \cos^x \pi^{-2} L6r m83^{-2} + 32/81 \ln(8) F^{-3} \sin^x \cos^x \pi^{-2} L5r m83^{-2} + 32/27 \ln(8) F^{-3} \sin^x \cos^x \pi^{-2} L4r m83^{-2} + 512/27 \ln(8) F^{-3} \sin^x \cos^x \pi^{-2} L8r m83^{-2} + 512/9 \ln(8) F^{-3} \sin^x \cos^x \pi^{-2} L7r m83^{-2} - 1/10368 \ln(8)^2 F^{-3} \cos^x \pi^{-4} m83^{-2} - 1/15552 \ln(8)^2 F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-2} - 29/3888 \ln(8)^2 F^{-3} \sin^x \cos^x \pi^{-4} m83^{-2} + 1/36 \ln(8)^2 F^{-3} \sin^x \cos^x \pi^{-4} m83^{-2} - 8/243 \ln(8)^2 F^{-3} \sin^x \cos^x \pi^{-4} m83^{-2} + 1/81 \ln(8)^2 F^{-3} \sin^x \cos^x \pi^{-4} m83^{-2} + 23/51840 / (\text{mass}(3)) \ln(3)^2 F^{-3} \cos^x \pi^{-4} m83^{-1} + 11/38880 / (\text{mass}(3)) \ln(3)^2 F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-1} - 91/19440 / (\text{mass}(3)) \ln(3)^2 F^{-3} \sin^x \cos^x \pi^{-4} m83^{-1} - 2/243 / (\text{mass}(3)) \ln(3)^2 F^{-3} \sin^x \cos^x \pi^{-4} m83^{-1} + 337/110592 / (\text{mass}(4)) \ln(4)^2 F^{-3} \cos^x \pi^{-4} m83^{-1} - 1021/276480 / (\text{mass}(4)) \ln(4)^2 F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-1} - 61/6912 / (\text{mass}(4)) \ln(4)^2 F^{-3} \sin^x \cos^x \pi^{-4} m83^{-1} + 23/6912 / (\text{mass}(4)) \ln(4)^2 F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-1} + 361/110592 / (\text{mass}(5)) \ln(4)^2 F^{-3} \cos^x \pi^{-4} m83^{-1} - 1021/276480 / (\text{mass}(5)) \ln(4)^2 F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-1} - 61/6912 / (\text{mass}(5)) \ln(4)^2 F^{-3} \sin^x \cos^x \pi^{-4} m83^{-1} + 23/6912 / (\text{mass}(5)) \ln(4)^2 F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-1} - 233/110592 / (\text{mass}(6)) \ln(6)^2 F^{-3} \cos^x \pi^{-4} m83^{-1} + 79/55296 / (\text{mass}(6)) \ln(6)^2 F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-1} - 61/6912 / (\text{mass}(6)) \ln(6)^2 F^{-3} \sin^x \cos^x \pi^{-4} m83^{-1} - 23/6912 / (\text{mass}(6)) \ln(6)^2 F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-1} - 281/110592 / (\text{mass}(7)) \ln(6)^2 F^{-3} \cos^x \pi^{-4} m83^{-1} + 115/55296 / (\text{mass}(7)) \ln(6)^2 F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-1} - 61/6912 / (\text{mass}(7)) \ln(6)^2 F^{-3} \sin^x \cos^x \pi^{-4} m83^{-1} - 23/6912 / (\text{mass}(7)) \ln(6)^2 F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-1} - 1/17280 / (\text{mass}(8)) \ln(8)^2 F^{-3} \cos^x \pi^{-4} m83^{-1} - 169/77760 / (\text{mass}(8)) \ln(8)^2 F^{-3} \sin^x \sqrt{3} \pi^{-4} m83^{-1} - 329/19440 / (\text{mass}(8)) \ln(8)^2 F^{-3} \sin^x \cos^x \pi^{-4} m83^{-1} + 2/243 / (\text{mass}(8)) \ln(8)^2 F^{-3} \sin^x \cos^x \pi^{-4} m83^{-1})
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}^2 \text{mkp}^2 \left(+ \frac{1}{7776} / (\text{mass}(3)) \ln(3)^2 F^{-3} \cos x \pi^{-4} m_{83}^{-2} + \right. \\
& \frac{1}{2916} / (\text{mass}(3)) \ln(3)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-2} - \frac{5}{1458} / (\text{mass}(3)) \ln(3)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m_{83}^{-2} \\
& - \frac{1}{2592} / (\text{mass}(4)) \ln(4)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-2} + \frac{1}{864} / (\text{mass}(6)) \ln(6)^2 F^{-3} \cos x \pi^{-4} m_{83}^{-2} \\
& + \frac{1}{324} / (\text{mass}(6)) \ln(6)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-2} + \frac{5}{7776} / (\text{mass}(8)) \ln(8)^2 F^{-3} \cos x \pi^{-4} m_{83}^{-2} \\
& + \frac{1}{1458} / (\text{mass}(8)) \ln(8)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-2} + \left. \frac{5}{1458} / (\text{mass}(8)) \ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m_{83}^{-2} \right) \\
& + \text{mud}^2 \text{mpp}^2 \left(+ \frac{1253}{663552} F^{-3} \cos x \pi^{-4} m_{83}^{-1} + \frac{293}{995328} F^{-3} \cos x \pi^{-2} m_{83}^{-1} \right. \\
& + \frac{5}{18} F^{-3} \cos x \pi^{-2} L_{8r} m_{83}^{-1} + \frac{1}{9} F^{-3} \cos x \pi^{-2} L_{7r} m_{83}^{-1} + \frac{5}{18} F^{-3} \cos x \pi^{-2} L_{6r} m_{83}^{-1} - \frac{13}{108} F^{-3} \cos x \pi^{-2} L_{5r} m_{83}^{-1} \\
& - \frac{5}{36} F^{-3} \cos x \pi^{-2} L_{4r} m_{83}^{-1} - \frac{1}{288} F^{-3} \cos x \pi^{-2} L_{3r} m_{83}^{-1} - \frac{64}{9} F^{-3} \cos x L_{5r} L_{8r} m_{83}^{-1} - \frac{64}{3} F^{-3} \cos x L_{5r} L_{7r} m_{83}^{-1} \\
& - \frac{64}{3} F^{-3} \cos x L_{4r} L_{8r} m_{83}^{-1} - \frac{64}{3} F^{-3} \cos x L_{4r} L_{7r} m_{83}^{-1} - \frac{64}{3} F^{-3} \cos x CC_{33} m_{83}^{-1} - \frac{32}{3} F^{-3} \cos x CC_{32} m_{83}^{-1} \\
& - \frac{32}{3} F^{-3} \cos x CC_{31} m_{83}^{-1} - \frac{32}{3} F^{-3} \cos x CC_{20} m_{83}^{-1} - \frac{16}{9} F^{-3} \cos x CC_{19} m_{83}^{-1} + \frac{16}{3} F^{-3} \cos x CC_{18} m_{83}^{-1} \\
& + \frac{16}{9} F^{-3} \cos x CC_{17} m_{83}^{-1} + \frac{16}{9} F^{-3} \cos x CC_{14} m_{83}^{-1} + \frac{16669}{9953280} F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-1} \\
& + \frac{5281}{14929920} F^{-3} \sin x \sqrt{3} \pi^{-2} m_{83}^{-1} - \frac{1}{54} F^{-3} \sin x \sqrt{3} \pi^{-2} L_{8r} m_{83}^{-1} + \frac{1}{27} F^{-3} \sin x \sqrt{3} \pi^{-2} L_{7r} m_{83}^{-1} \\
& + \frac{5}{54} F^{-3} \sin x \sqrt{3} \pi^{-2} L_{6r} m_{83}^{-1} + \frac{5}{324} F^{-3} \sin x \sqrt{3} \pi^{-2} L_{5r} m_{83}^{-1} - \frac{5}{108} F^{-3} \sin x \sqrt{3} \pi^{-2} L_{4r} m_{83}^{-1} \\
& + \frac{11}{864} F^{-3} \sin x \sqrt{3} \pi^{-2} L_{3r} m_{83}^{-1} - \frac{2368}{27} F^{-3} \sin x \sqrt{3} L_{5r} L_{8r} m_{83}^{-1} - \frac{2368}{9} F^{-3} \sin x \sqrt{3} L_{5r} L_{7r} m_{83}^{-1} \\
& - \frac{64}{9} F^{-3} \sin x \sqrt{3} L_{4r} L_{8r} m_{83}^{-1} - \frac{64}{3} F^{-3} \sin x \sqrt{3} L_{4r} L_{7r} m_{83}^{-1} - \frac{64}{9} F^{-3} \sin x \sqrt{3} CC_{33} m_{83}^{-1} \\
& - \frac{32}{9} F^{-3} \sin x \sqrt{3} CC_{32} m_{83}^{-1} - \frac{32}{9} F^{-3} \sin x \sqrt{3} CC_{31} m_{83}^{-1} - \frac{32}{9} F^{-3} \sin x \sqrt{3} CC_{20} m_{83}^{-1} \\
& - \frac{16}{3} F^{-3} \sin x \sqrt{3} CC_{19} m_{83}^{-1} - \frac{176}{9} F^{-3} \sin x \sqrt{3} CC_{18} m_{83}^{-1} - \frac{176}{27} F^{-3} \sin x \sqrt{3} CC_{17} m_{83}^{-1} \\
& - \frac{176}{27} F^{-3} \sin x \sqrt{3} CC_{14} m_{83}^{-1} + \frac{1253}{82944} F^{-3} \sin x^2 \cos x \pi^{-4} m_{83}^{-1} + \frac{293}{124416} F^{-3} \sin x^2 \cos x \pi^{-2} m_{83}^{-1} \\
& + \frac{20}{9} F^{-3} \sin x^2 \cos x \pi^{-2} L_{8r} m_{83}^{-1} + \frac{8}{9} F^{-3} \sin x^2 \cos x \pi^{-2} L_{7r} m_{83}^{-1} + \frac{20}{9} F^{-3} \sin x^2 \cos x \pi^{-2} L_{6r} m_{83}^{-1} \\
& - \frac{26}{27} F^{-3} \sin x^2 \cos x \pi^{-2} L_{5r} m_{83}^{-1} - \frac{10}{9} F^{-3} \sin x^2 \cos x \pi^{-2} L_{4r} m_{83}^{-1} - \frac{1}{36} F^{-3} \sin x^2 \cos x \pi^{-2} L_{3r} m_{83}^{-1} \\
& - \frac{512}{9} F^{-3} \sin x^2 \cos x L_{5r} L_{8r} m_{83}^{-1} - \frac{512}{3} F^{-3} \sin x^2 \cos x L_{5r} L_{7r} m_{83}^{-1} - \frac{512}{3} F^{-3} \sin x^2 \cos x L_{4r} L_{8r} m_{83}^{-1} \\
& - \frac{512}{3} F^{-3} \sin x^2 \cos x L_{4r} L_{7r} m_{83}^{-1} - \frac{512}{3} F^{-3} \sin x^2 \cos x CC_{33} m_{83}^{-1} - \frac{256}{3} F^{-3} \sin x^2 \cos x CC_{32} m_{83}^{-1} \\
& - \frac{256}{3} F^{-3} \sin x^2 \cos x CC_{31} m_{83}^{-1} - \frac{256}{3} F^{-3} \sin x^2 \cos x CC_{20} m_{83}^{-1} - \frac{128}{9} F^{-3} \sin x^2 \cos x CC_{19} m_{83}^{-1} \\
& + \frac{128}{3} F^{-3} \sin x^2 \cos x CC_{18} m_{83}^{-1} + \frac{128}{9} F^{-3} \sin x^2 \cos x CC_{17} m_{83}^{-1} + \frac{128}{9} F^{-3} \sin x^2 \cos x CC_{14} m_{83}^{-1} \\
& + \frac{2}{9} C F^{-3} \cos x \pi^{-2} L_{8r} m_{83}^{-1} + \frac{2}{3} C F^{-3} \cos x \pi^{-2} L_{7r} m_{83}^{-1} - \frac{125}{62208} C F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-1} \\
& + \frac{8}{27} C F^{-3} \sin x \sqrt{3} \pi^{-2} L_{8r} m_{83}^{-1} + \frac{14}{9} C F^{-3} \sin x \sqrt{3} \pi^{-2} L_{7r} m_{83}^{-1} + \frac{2}{9} C F^{-3} \sin x \sqrt{3} \pi^{-2} L_{5r} m_{83}^{-1} \\
& + \frac{16}{9} C F^{-3} \sin x^2 \cos x \pi^{-2} L_{8r} m_{83}^{-1} + \frac{16}{3} C F^{-3} \sin x^2 \cos x \pi^{-2} L_{7r} m_{83}^{-1} + \frac{23}{34560} C^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-1} \\
& - \frac{1}{768} C \ln(1) F^{-3} \cos x \pi^{-4} m_{83}^{-1} - \frac{1}{11520} C \ln(1) F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-1} \left. \right)
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 13/69120*C*\ln(3)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} \\
& - 3/2560*C*\ln(3)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 13/8640*C*\ln(3)*F^{\wedge-3} \\
& * \sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 1/2304*C*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} \\
& - 1/2304*C*\ln(4)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 1/576*C*\ln(4)*F^{\wedge-3} \\
& * \sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 1/1728*C*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} \\
& *\text{m83}^{\wedge-1} + 1/2304*C*\ln(6)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 7/4320*C*\ln(6)*F^{\wedge-3} \\
& * \sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 1/576*C*\ln(6)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} \\
& - 1/1728*C*\ln(6)*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 11/23040*C*\ln(8)*F^{\wedge-3} \\
& * \cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 329/207360*C*\ln(8)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} \\
& - 11/2880*C*\ln(8)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 1/3072*\ln(1)*F^{\wedge-3} \\
& * \cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 2/9*\ln(1)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*\text{m38}^{\wedge-1} + 11/18*\ln(1)*F^{\wedge-3} \\
& * \cos x^*\pi^{\wedge-2}*\text{L8r}^*\text{m83}^{\wedge-1} + 1/3*\ln(1)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*\text{m38}^{\wedge-1} + \\
& 3/2*\ln(1)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*\text{m83}^{\wedge-1} - 1/18*\ln(1)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L5r}^*\text{m38}^{\wedge-1} \\
& + 1/12*\ln(1)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L5r}^*\text{m83}^{\wedge-1} - 1/5184*\ln(1)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} \\
& *\text{m83}^{\wedge-1} - 1/27*\ln(1)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r}^*\text{m38}^{\wedge-1} - 7/27*\ln(1)*F^{\wedge-3} \\
& * \sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r}^*\text{m83}^{\wedge-1} + 2/9*\ln(1)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*\text{m38}^{\wedge-1} \\
& - 1 - 2/3*\ln(1)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*\text{m83}^{\wedge-1} - 1/9*\ln(1)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2} \\
& *\text{L6r}^*\text{m38}^{\wedge-1} + 1/9*\ln(1)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L6r}^*\text{m83}^{\wedge-1} + 1/18*\ln(1)*F^{\wedge-3} \\
& * \sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L5r}^*\text{m38}^{\wedge-1} + 1/18*\ln(1)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r}^*\text{m38}^{\wedge-1} \\
& - 1/36*\ln(1)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r}^*\text{m83}^{\wedge-1} + 17/20736*\ln(1)*F^{\wedge-3} \\
& * \sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 2/9*\ln(1)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*\text{m38}^{\wedge-1} \\
& - 14/27*\ln(1)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*\text{m83}^{\wedge-1} - 8/9*\ln(1)*F^{\wedge-3} \\
& * \sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*\text{m38}^{\wedge-1} - 16/9*\ln(1)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2} \\
& *\text{L7r}^*\text{m83}^{\wedge-1} + 2/9*\ln(1)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L6r}^*\text{m38}^{\wedge-1} + 2/9*\ln(1)*F^{\wedge-3} \\
& * \sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L6r}^*\text{m83}^{\wedge-1} - 1/27*\ln(1)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2} \\
& *\text{L5r}^*\text{m38}^{\wedge-1} - 1/27*\ln(1)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L5r}^*\text{m83}^{\wedge-1} - 1/9*\ln(1)*F^{\wedge-3} \\
& * \sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L4r}^*\text{m38}^{\wedge-1} - 1/9*\ln(1)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L4r}^*\text{m83}^{\wedge-1} \\
& - 1/1296*\ln(1)*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 16/27*\ln(1)*F^{\wedge-3} \\
& * \sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*\text{m38}^{\wedge-1} - 8/9*\ln(1)*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*\text{m83}^{\wedge-1} \\
& + 16/9*\ln(1)*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*\text{m38}^{\wedge-1} - 8/3*\ln(1)*F^{\wedge-3} \\
& * \sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*\text{m83}^{\wedge-1} - 1/3456*\ln(1)*\ln(3)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*\text{m38}^{\wedge-1} \\
& + 49/138240*\ln(1)*\ln(3)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 1/5184*\ln(1)*\ln(3)*F^{\wedge-3} \\
& * \sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m38}^{\wedge-1} - 7/15360*\ln(1)*\ln(3)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} \\
& *\text{m83}^{\wedge-1} + 91/207360*\ln(1)*\ln(3)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + \\
& 1/2592*\ln(1)*\ln(3)*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*\text{m38}^{\wedge-1} - 11/5184*\ln(1)*\ln(3)*F^{\wedge-3} \\
& * \sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 1/1296*\ln(1)*\ln(3)*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4} \\
& *\text{m38}^{\wedge-1} + 5/2592*\ln(1)*\ln(3)*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 1/9216*\ln(1)*\ln(4)*F^{\wedge-3} \\
& * \cos x^*\pi^{\wedge-4}*\text{m38}^{\wedge-1} - 7/55296*\ln(1)*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - \\
& 1/27648*\ln(1)*\ln(4)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m38}^{\wedge-1} + 29/165888*\ln(1)*\ln(4)*F^{\wedge-3} \\
& * \sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 1/2304*\ln(1)*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} \\
& *\text{m38}^{\wedge-1} + 1/13824*\ln(1)*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 1/2304*\ln(1)*\ln(4)*F^{\wedge-3} \\
& * \sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}*\text{m38}^{\wedge-1} - 29/41472*\ln(1)*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} \\
& *\text{m83}^{\wedge-1} - 1/1728*\ln(1)*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*\text{m38}^{\wedge-1} + 1/1152*\ln(1)*\ln(4)*F^{\wedge-3} \\
& * \sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 1/1728*\ln(1)*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} \\
& *\text{m38}^{\wedge-1} + 1/1152*\ln(1)*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 1/3072*\ln(1)*\ln(6)*F^{\wedge-3} \\
& * \cos x^*\pi^{\wedge-4}*\text{m38}^{\wedge-1} - 5/55296*\ln(1)*\ln(6)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} -
\end{aligned}$$

$$\begin{aligned}
& 5/9216*\ln(1)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1}} - 283/829440*\ln(1)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} \\
& + 1/2304*\ln(1)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} - 1/2304*\ln(1)*\ln(6)*F^{-4*m38^{-1}} \\
& + 1/13824*\ln(1)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} - 1/2304*\ln(1)*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1}} \\
& + 29/41472*\ln(1)*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} - 1/1728*\ln(1)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m38^{-1}} \\
& + 1/1152*\ln(1)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} + 1/1728*\ln(1)*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m38^{-1}} \\
& - 1/1152*\ln(1)*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1}} + 7/46080*\ln(1)*\ln(8)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} \\
& - 1/10368*\ln(1)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1}} + 43/138240*\ln(1)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} \\
& + 1/5184*\ln(1)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m38^{-1}} - 151/207360*\ln(1)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} \\
& - 1/864*\ln(1)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m38^{-1}} + 17/5184*\ln(1)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} \\
& + 1/1296*\ln(1)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m38^{-1}} - 5/2592*\ln(1)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-1}} \\
& + 5/41472*\ln(3)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} + 7/27*\ln(3)*F^{-3*\cos x*\pi^{-2}*L8r*m83^{-1}} + 1/3*\ln(3)*F^{-3*\cos x*\pi^{-2}*L7r*m83^{-1}} \\
& + 1/9*\ln(3)*F^{-3*\cos x*\pi^{-2}*L6r*m83^{-1}} - 1/12*\ln(3)*F^{-3*\cos x*\pi^{-2}*L5r*m83^{-1}} - 1/24*\ln(3)*F^{-3*\cos x*\pi^{-2}*L4r*m83^{-1}} \\
& - 5/41472*\ln(3)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} - 53/81*\ln(3)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-1}} \\
& - 34/27*\ln(3)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1}} - 1/27*\ln(3)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-1}} \\
& + 16/81*\ln(3)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1}} + 1/72*\ln(3)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-1}} \\
& + 5/5184*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + 80/27*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1}} \\
& + 16/3*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1}} + 8/9*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1}} \\
& - 2/3*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1}} - 1/3*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1}} \\
& + 128/27*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1}} + 128/9*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1}} \\
& + 128/9*\ln(3)*F^{-3*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-1}} - 5/55296*\ln(3)^2*F^{-3*\cos x*\pi^{-4}*m83^{-1}} \\
& + 119/497664*\ln(3)^2*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} - 35/27648*\ln(3)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} \\
& - 1/576*\ln(3)^2*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} - 7/5184*\ln(3)^2*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-1}} \\
& + 1/324*\ln(3)^2*F^{-3*\sin x^8*\cos x*\pi^{-4}*m83^{-1}} - 1/18432*\ln(3)*\ln(4)*F^{-3*\cos x*\pi^{-4}*m38^{-1}} \\
& - 991/1658880*\ln(3)*\ln(4)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} + 1/6144*\ln(3)*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1}} \\
& + 287/552960*\ln(3)*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} + 647/414720*\ln(3)*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} \\
& - 5/10368*\ln(3)*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1}} + 13/9216*\ln(3)*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} \\
& - 1/5184*\ln(3)*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m38^{-1}} - 37/10368*\ln(3)*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} \\
& + 1/2592*\ln(3)*\ln(4)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m38^{-1}} + 1/2592*\ln(3)*\ln(4)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m38^{-1}} \\
& + 1/1728*\ln(3)*\ln(4)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1}} + 19/55296*\ln(3)*\ln(6)*F^{-3*\cos x*\pi^{-4}*m38^{-1}} \\
& + 1501/1658880*\ln(3)*\ln(6)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} - 59/165888*\ln(3)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1}} \\
& - 1691/1658880*\ln(3)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} + 647/414720*\ln(3)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} \\
& + 5/10368*\ln(3)*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m38^{-1}} - 13/9216*\ln(3)*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} \\
& - 1/5184*\ln(3)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m38^{-1}} - 37/10368*\ln(3)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}}
\end{aligned}$$

$$\begin{aligned}
& 4^*m83^{-1} + 7/2592*\ln(3)*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1}} + 1/2592*\ln(3)*\ln(6)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m38^{-1}} + 19/5184*\ln(3)*\ln(6)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-1}} - 1/2592*\ln(3)*\ln(6)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m38^{-1}} - 1/1728*\ln(3)*\ln(6)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1}} - 1/82944*\ln(3)*\ln(8)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} + 1/248832*\ln(3)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} - 7/41472*\ln(3)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} - 7/2592*\ln(3)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} + 23/2592*\ln(3)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-1}} - 1/162*\ln(3)*\ln(8)*F^{-3*\sin x^8*\cos x*\pi^{-4}*m83^{-1}} - 5/55296*\ln(4)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} + 1/54*\ln(4)*F^{-3*\cos x*\pi^{-2}*L8r*m38^{-1}} - 41/27*\ln(4)*F^{-3*\cos x*\pi^{-2}*L8r*m83^{-1}} - 25/9*\ln(4)*F^{-3*\cos x*\pi^{-2}*L7r*m83^{-1}} + 1/18*\ln(4)*F^{-3*\cos x*\pi^{-2}*L6r*m38^{-1}} - 5/18*\ln(4)*F^{-3*\cos x*\pi^{-2}*L6r*m83^{-1}} - 1/108*\ln(4)*F^{-3*\cos x*\pi^{-2}*L5r*m38^{-1}} + 55/216*\ln(4)*F^{-3*\cos x*\pi^{-2}*L5r*m83^{-1}} - 1/36*\ln(4)*F^{-3*\cos x*\pi^{-2}*L4r*m38^{-1}} + 7/72*\ln(4)*F^{-3*\cos x*\pi^{-2}*L4r*m83^{-1}} + 1/48*\ln(4)*F^{-3*\cos x*\pi^{-2}*L3r*m83^{-1}} + 47/165888*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} - 1/6*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m38^{-1}} + 43/27*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-1}} - 4/9*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m38^{-1}} + 3*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1}} - 1/18*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m38^{-1}} + 5/18*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-1}} + 1/108*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m38^{-1}} - 55/216*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1}} + 1/36*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m38^{-1}} - 7/72*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-1}} - 1/48*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L3r*m83^{-1}} - 1/5184*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + 1/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m38^{-1}} + 4/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1}} + 109/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1}} + 4/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m38^{-1}} + 62/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1}} - 1/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m38^{-1}} + 11/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1}} + 1/54*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m38^{-1}} - 19/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1}} + 1/18*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m38^{-1}} - 4/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1}} - 1/12*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L3r*m83^{-1}} - 7/6912*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} + 25/27*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m38^{-1}} - 8/3*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-1}} + 52/9*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m38^{-1}} - 1/9*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m38^{-1}} - 1/3*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-1}} - 1/54*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m38^{-1}} + 2/9*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-1}} - 1/18*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m38^{-1}} + 1/9*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-1}} + 1/36*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L3r*m83^{-1}} + 1/2592*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} - 8/27*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m38^{-1}} + 4/9*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1}} - 8/9*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m38^{-1}} + 4/3*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1}} + 1/864*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1}} - 8/9*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m38^{-1}} + 4/3*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-1}} - 8/3*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m38^{-1}} + 4*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-1}} + 1/6912*\ln(4)^2*F^{-3*\cos x*\pi^{-4}*m38^{-1}} - 1/6912*\ln(4)^2*F^{-3*\cos x*\pi^{-4}*m83^{-1}} + 1/4608*\ln(4)^2*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m38^{-1}}
\end{aligned}$$

$$\begin{aligned}
& 4^*m83^{-1} - 1/2304*\ln(4)^2*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m38^{-1} - 1/13824*\ln(4)^2*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-1} - 7/6912*\ln(4)^2*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}*m38^{-1} \\
& + 49/41472*\ln(4)^2*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/864*\ln(4)^2*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}*m38^{-1} - 1/576*\ln(4)^2*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}*m83^{-1} \\
& - 1/9216*\ln(4)*\ln(6)*F^{-3}*\cosx*\pi^{-4}*m38^{-1} - 5/55296*\ln(4)*\ln(6)*F^{-3}*\cosx*\pi^{-4}*m83^{-1} + 7/27648*\ln(4)*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m38^{-1} \\
& - 41/165888*\ln(4)*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/1152*\ln(4)*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-1} + 1/864*\ln(4)*\ln(6)*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m38^{-1} \\
& - 1/576*\ln(4)*\ln(6)*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-1} + 1/165888*\ln(4)*\ln(8)*F^{-3}*\cosx*\pi^{-4}*m38^{-1} - 1529/1658880*\ln(4)*\ln(8)*F^{-3}*\cosx*\pi^{-4}*m83^{-1} + 13/165888*\ln(4)*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m38^{-1} \\
& + 1499/1658880*\ln(4)*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/10368*\ln(4)*\ln(8)*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m38^{-1} + 733/414720*\ln(4)*\ln(8)*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-1} \\
& - 1/1296*\ln(4)*\ln(8)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}*m38^{-1} - 113/82944*\ln(4)*\ln(8)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/1728*\ln(4)*\ln(8)*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m38^{-1} \\
& + 31/10368*\ln(4)*\ln(8)*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-1} + 1/864*\ln(4)*\ln(8)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}*m38^{-1} + 5/5184*\ln(4)*\ln(8)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}*m83^{-1} \\
& - 1/2592*\ln(4)*\ln(8)*F^{-3}*\sinx^6*\cosx*\pi^{-4}*m38^{-1} - 1/2592*\ln(4)*\ln(8)*F^{-3}*\sinx^7*\sqrt{3}*\pi^{-4}*m38^{-1} - 1/1728*\ln(4)*\ln(8)*F^{-3}*\sinx^7*\sqrt{3}*\pi^{-4}*m83^{-1} \\
& - 13/54*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L8r*m38^{-1} + 50/27*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L8r*m83^{-1} - 1/3*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L7r*m38^{-1} + 25/9*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L7r*m83^{-1} \\
& - 1/18*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L6r*m38^{-1} + 11/18*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L6r*m83^{-1} + 7/108*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L5r*m38^{-1} - 14/27*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L5r*m83^{-1} \\
& + 1/36*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L4r*m38^{-1} - 2/9*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L4r*m83^{-1} - 1/24*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L3r*m83^{-1} + 1/1728*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-1} \\
& + 11/54*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L8r*m38^{-1} - 31/54*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} + 1/6*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L6r*m38^{-1} - 5/18*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} \\
& - 7/108*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L5r*m38^{-1} + 5/12*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} - 1/12*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L4r*m38^{-1} + 1/12*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} \\
& + 7/72*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} - 1/5184*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-1} + 1/9*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L8r*m38^{-1} + 109/27*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L8r*m83^{-1} \\
& + 4/9*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L7r*m38^{-1} + 62/9*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L7r*m83^{-1} - 1/9*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L6r*m38^{-1} + 11/9*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L6r*m83^{-1} \\
& + 1/54*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L5r*m38^{-1} - 19/27*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L5r*m83^{-1} + 1/18*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L4r*m38^{-1} - 4/9*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L4r*m83^{-1} \\
& - 1/12*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L3r*m83^{-1} + 7/6912*\ln(6)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 25/27*\ln(6)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L8r*m38^{-1} + 67/27*\ln(6)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} \\
& - 8/3*\ln(6)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L7r*m38^{-1} + 52/9*\ln(6)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2^*L7r^*m83^{\wedge}-1 - 1/9^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-2^*L6r^*m38^{\wedge}-1 + 1/3^*\ln(6)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-2^*L6r^*m83^{\wedge}-1 + 1/54^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}- \\
& 2^*L5r^*m38^{\wedge}-1 - 2/9^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-2^*L5r^*m83^{\wedge}-1 + 1/18^*\ln(6)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-2^*L4r^*m38^{\wedge}-1 - 1/9^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}- \\
& 2^*L4r^*m83^{\wedge}-1 - 1/36^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-2^*L3r^*m83^{\wedge}-1 + 1/2592^*\ln(6)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-1 - 8/27^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-2^*L8r^*m38^{\wedge}- \\
& 1 + 4/9^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-1 - 8/9^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}- \\
& 2^*L7r^*m38^{\wedge}-1 + 4/3^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-1 - 1/864^*\ln(6)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-1 + 8/9^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}-2^*L8r^*m38^{\wedge}- \\
& 1 - 4/3^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-1 + 8/3^*\ln(6)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}-2^*L7r^*m38^{\wedge}-1 - 4^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}- \\
& 1 - 7/27648^*\ln(6)^{\wedge}2^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-4^*m38^{\wedge}-1 + 31/55296^*\ln(6)^{\wedge}2^*F^{\wedge}- \\
& 3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-1 + 1/3072^*\ln(6)^{\wedge}2^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m38^{\wedge}-1 - \\
& 563/829440^*\ln(6)^{\wedge}2^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-1 - 1/2304^*\ln(6)^{\wedge}2^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-4^*m38^{\wedge}-1 - 1/13824^*\ln(6)^{\wedge}2^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-1 + 7/6912^*\ln(6)^{\wedge}2^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-4^*m38^{\wedge}-1 - 49/41472^*\ln(6)^{\wedge}2^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-1 - 1/864^*\ln(6)^{\wedge}2^*F^{\wedge}-3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}-4^*m38^{\wedge}- \\
& 1 + 1/576^*\ln(6)^{\wedge}2^*F^{\wedge}-3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-1 - 1/165888^*\ln(6)^*\ln(8)^*F^{\wedge}- \\
& 3^*\cos x^*\pi^{\wedge}-4^*m38^{\wedge}-1 + 1499/1658880^*\ln(6)^*\ln(8)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-1 + \\
& 1/55296^*\ln(6)^*\ln(8)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m38^{\wedge}-1 - 1093/1658880^*\ln(6)^*\ln(8)^*F^{\wedge}- \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-1 - 1/10368^*\ln(6)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}- \\
& 4^*m38^{\wedge}-1 + 733/414720^*\ln(6)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-1 + \\
& 1/1296^*\ln(6)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-4^*m38^{\wedge}-1 + 113/82944^*\ln(6)^*\ln(8)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-1 + 1/1728^*\ln(6)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}- \\
& 4^*m38^{\wedge}-1 + 31/10368^*\ln(6)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-1 - 1/864^*\ln(6)^*\ln(8)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}-4^*m38^{\wedge}-1 - 5/5184^*\ln(6)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-1 - 1/2592^*\ln(6)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}6^*\cos x^*\pi^{\wedge}-4^*m38^{\wedge}-1 - 19/5184^*\ln(6)^*\ln(8)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}6^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-1 + 1/2592^*\ln(6)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}7^*\sqrt{3}^*\pi^{\wedge}- \\
& 4^*m38^{\wedge}-1 + 1/1728^*\ln(6)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}7^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-1 + 1/20736^*\ln(8)^*F^{\wedge}- \\
& 3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-1 + 4/9^*\ln(8)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-1 + 8/9^*\ln(8)^*F^{\wedge}- \\
& 3^*\cos x^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-1 + 1/9^*\ln(8)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-2^*L6r^*m83^{\wedge}-1 - \\
& 1/27^*\ln(8)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-2^*L5r^*m83^{\wedge}-1 - 1/24^*\ln(8)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}- \\
& 2^*L4r^*m83^{\wedge}-1 - 7/62208^*\ln(8)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-1 + 8/9^*\ln(8)^*F^{\wedge}- \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-1 + 5/3^*\ln(8)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}- \\
& 1 + 1/9^*\ln(8)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L6r^*m83^{\wedge}-1 - 17/324^*\ln(8)^*F^{\wedge}- \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L5r^*m83^{\wedge}-1 - 1/24^*\ln(8)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L4r^*m83^{\wedge}- \\
& 1 + 1/2592^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-1 + 8/3^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}- \\
& 2^*L8r^*m83^{\wedge}-1 + 40/9^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-1 + 8/9^*\ln(8)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L6r^*m83^{\wedge}-1 - 8/27^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}- \\
& 2^*L5r^*m83^{\wedge}-1 - 1/3^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L4r^*m83^{\wedge}-1 - 128/27^*\ln(8)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-1 - 128/9^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}- \\
& 2^*L7r^*m83^{\wedge}-1 + 128/27^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}6^*\cos x^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-1 + \\
& 128/9^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}6^*\cos x^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-1 - 35/165888^*\ln(8)^{\wedge}2^*F^{\wedge}- \\
& 3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-1 - 173/497664^*\ln(8)^{\wedge}2^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-1 - \\
& 89/82944^*\ln(8)^{\wedge}2^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-1 + 23/5184^*\ln(8)^{\wedge}2^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-1 - 13/1728^*\ln(8)^{\wedge}2^*F^{\wedge}-3^*\sin x^{\wedge}6^*\cos x^*\pi^{\wedge}-
\end{aligned}$$

$$\begin{aligned}
& 4^*m83^{-1} + 1/324*\ln(8)^2*F^{-3}*sinx^8*cosx*pi^{-4}*m83^{-1} + 611/1105920/(mass(3))*\ln(3)^2*F^{-3}*cosx*pi^{-4} + 19/552960/(mass(3))*\ln(3)^2*F^{-3}*sinx*sqrt3*pi^{-4} - \\
& 1/2160/(mass(3))*\ln(3)^2*F^{-3}*sinx^2*cosx*pi^{-4} + 1/15360/(mass(4))*\ln(4)^2*F^{-3}*cosx*pi^{-4} - 1/15360/(mass(4))*\ln(4)^2*F^{-3}*sinx*sqrt3*pi^{-4} - 7/30720/(mass(4))*\ln(4)^2*F^{-3}*sinx^2*cosx*pi^{-4} + 7/92160/(mass(4))*\ln(4)^2*F^{-3}*sinx^3*sqrt3*pi^{-4} + \\
& 3/20480/(mass(5))*\ln(4)^2*F^{-3}*cosx*pi^{-4} - 3/20480/(mass(5))*\ln(4)^2*F^{-3}*sinx*sqrt3*pi^{-4} - 41/92160/(mass(5))*\ln(4)^2*F^{-3}*sinx^2*cosx*pi^{-4} + 41/276480/(mass(5))*\ln(4)^2*F^{-3}*sinx^3*sqrt3*pi^{-4} - 1/3072/(mass(6))*\ln(6)^2*F^{-3}*cosx*pi^{-4} + 7/368640/(mass(6))*\ln(6)^2*F^{-3}*sinx*sqrt3*pi^{-4} - 7/30720/(mass(6))*\ln(6)^2*F^{-3}*sinx^2*cosx*pi^{-4} - 7/92160/(mass(6))*\ln(6)^2*F^{-3}*sinx^3*sqrt3*pi^{-4} - 11/36864/(mass(7))*\ln(6)^2*F^{-3}*cosx*pi^{-4} + 31/1105920/(mass(7))*\ln(6)^2*F^{-3}*sinx*sqrt3*pi^{-4} - 41/92160/(mass(7))*\ln(6)^2*F^{-3}*sinx^2*cosx*pi^{-4} - 41/276480/(mass(7))*\ln(6)^2*F^{-3}*sinx^3*sqrt3*pi^{-4} - 199/1105920/(mass(8))*\ln(8)^2*F^{-3}*cosx*pi^{-4} - 211/1658880/(mass(8))*\ln(8)^2*F^{-3}*sinx*sqrt3*pi^{-4} - 1/2160/(mass(8))*\ln(8)^2*F^{-3}*sinx^2*cosx*pi^{-4} \\
& + mud^2*mpp2*mkp2 * (- 5/1728*F^{-3}*cosx*pi^{-4}*m83^{-2} - 5/10368*F^{-3}*cosx*pi^{-2}*m83^{-2} + 2048/9*F^{-3}*cosx*L8r^2*m83^{-2} + 5120/9*F^{-3}*cosx*L7r*L8r*m83^{-2} - 1024/3*F^{-3}*cosx*L7r^2*m83^{-2} + 1024/9*F^{-3}*cosx*L6r*L8r*m83^{-2} + 1024/3*F^{-3}*cosx*L6r*L7r*m83^{-2} + 2560/27*F^{-3}*cosx*L5r*L8r*m83^{-2} + 2560/9*F^{-3}*cosx*L5r*L7r*m83^{-2} - 512/9*F^{-3}*cosx*L4r*L8r*m83^{-2} - 512/3*F^{-3}*cosx*L4r*L7r*m83^{-2} - 32768/27*F^{-3}*sinx*sqrt3*L8r^2*m83^{-2} - 65536/9*F^{-3}*sinx*sqrt3*L7r*L8r*m83^{-2} - 32768/3*F^{-3}*sinx*sqrt3*L7r^2*m83^{-2} + 1024/3*F^{-3}*sinx*sqrt3*L6r*L8r*m83^{-2} + 1024*F^{-3}*sinx*sqrt3*L6r*L7r*m83^{-2} - 1024/9*F^{-3}*sinx*sqrt3*L5r*L8r*m83^{-2} - 1024/3*F^{-3}*sinx*sqrt3*L5r*L7r*m83^{-2} + 512/3*F^{-3}*sinx*sqrt3*L4r*L8r*m83^{-2} + 512*F^{-3}*sinx*sqrt3*L4r*L7r*m83^{-2} + 90112/9*F^{-3}*sinx^2*cosx*L8r^2*m83^{-2} + 532480/9*F^{-3}*sinx^2*cosx*L7r*L8r*m83^{-2} + 262144/3*F^{-3}*sinx^2*cosx*L7r^2*m83^{-2} + 8192/9*F^{-3}*sinx^2*cosx*L6r*L8r*m83^{-2} + 8192/3*F^{-3}*sinx^2*cosx*L6r*L7r*m83^{-2} - 4096/27*F^{-3}*sinx^2*cosx*L5r*L8r*m83^{-2} - 4096/9*F^{-3}*sinx^2*cosx*L5r*L7r*m83^{-2} - 4096/9*F^{-3}*sinx^2*cosx*L4r*L8r*m83^{-2} - 4096/3*F^{-3}*sinx^2*cosx*L4r*L7r*m83^{-2} - 131072/9*F^{-3}*sinx^4*cosx*L8r^2*m83^{-2} - 262144/3*F^{-3}*sinx^4*cosx*L7r*L8r*m83^{-2} - 131072*F^{-3}*sinx^4*cosx*L7r^2*m83^{-2} - 16/9*C*F^{-3}*cosx*pi^{-2}*L8r*m83^{-2} - 16/3*C*F^{-3}*cosx*pi^{-2}*L7r*m83^{-2} + 1/864*C*\ln(1)*F^{-3}*cosx*pi^{-4}*m83^{-2} - 1/2592*C*\ln(1)*F^{-3}*sinx*sqrt3*pi^{-4}*m83^{-2} + 1/1296*C*\ln(3)*F^{-3}*cosx*pi^{-4}*m83^{-2} - 1/1728*C*\ln(3)*F^{-3}*sinx*sqrt3*pi^{-4}*m83^{-2} - 1/324*C*\ln(3)*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-2} + 1/2592*C*\ln(4)*F^{-3}*sinx*sqrt3*pi^{-4}*m83^{-2} + 1/432*C*\ln(6)*F^{-3}*cosx*pi^{-4}*m83^{-2} + 1/648*C*\ln(8)*F^{-3}*cosx*pi^{-4}*m83^{-2} + 1/1728*C*\ln(8)*F^{-3}*sinx*sqrt3*pi^{-4}*m83^{-2} + 1/324*C*\ln(8)*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-2} + 8/27*\ln(1)*F^{-3}*cosx*pi^{-2}*L8r*m83^{-2} + 4/3*\ln(1)*F^{-3}*cosx*pi^{-2}*L7r*m83^{-2} - 2/9*\ln(1)*F^{-3}*cosx*pi^{-2}*L6r*m83^{-2} - 1/9*\ln(1)*F^{-3}*cosx*pi^{-2}*L4r*m83^{-2} - 16/81*\ln(1)*F^{-3}*sinx*sqrt3*pi^{-2}*L8r*m83^{-2} - 16/27*\ln(1)*F^{-3}*sinx*sqrt3*pi^{-2}*L7r*m83^{-2} + 4/27*\ln(1)*F^{-3}*sinx*sqrt3*pi^{-2}*L4r*m83^{-2} - 64/27*\ln(1)*F^{-3}*sinx^2*cosx*pi^{-2}*L8r*m83^{-2} - 64/9*\ln(1)*F^{-3}*sinx^2*cosx*pi^{-2}*L7r*m83^{-2} - 1/2592*\ln(1)*\ln(3)*F^{-3}*cosx*pi^{-4}*m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2 + 1/2592*\ln(1)*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/2592*\ln(1)*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} \\
& + 1/324*\ln(1)*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 1/2304*\ln(1)*\ln(4)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 13/10368*\ln(1)*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 1/432*\ln(1)*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 1/432*\ln(1)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/768*\ln(1)*\ln(6)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} \\
& + 5/3456*\ln(1)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/432*\ln(1)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 1/432*\ln(1)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 1/10368*\ln(1)*\ln(8)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 1/7776*\ln(1)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 7/2592*\ln(1)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} \\
& - 1/324*\ln(1)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 11/81*\ln(3)*F^{-3}*\cos x*\pi^{-2}*L8r*m83^{-2} + 7/9*\ln(3)*F^{-3}*\cos x*\pi^{-2}*L7r*m83^{-2} \\
& - 5/81*\ln(3)*F^{-3}*\cos x*\pi^{-2}*L5r*m83^{-2} + 2/27*\ln(3)*F^{-3}*\cos x*\pi^{-2}*L4r*m83^{-2} + 4/3*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 100/27*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} \\
& - 4/27*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} + 8/81*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} - 4/27*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} \\
& - 800/27*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} - 8/27*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} + 4/27*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} \\
& + 20/27*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} - 688/81*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} - 704/27*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} \\
& + 16/27*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-2} - 8/81*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-2} - 8/27*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-2} \\
& + 640/27*\ln(3)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-2} + 640/9*\ln(3)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-2} - 1/6912*\ln(3)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} \\
& - 1/3888*\ln(3)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 43/15552*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 19/2592*\ln(3)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} \\
& - 5/972*\ln(3)^2*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} - 1/162*\ln(3)^2*F^{-3}*\sin x^8*\cos x*\pi^{-4}*m83^{-2} - 85/82944*\ln(3)*\ln(4)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} \\
& - 385/248832*\ln(3)*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 23/2592*\ln(3)*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 43/5184*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 19/2592*\ln(3)*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 31/7776*\ln(3)*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/216*\ln(3)*\ln(4)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} \\
& - 1/216*\ln(3)*\ln(4)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} + 67/82944*\ln(3)*\ln(6)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 287/248832*\ln(3)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 23/2592*\ln(3)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 43/5184*\ln(3)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 19/2592*\ln(3)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} \\
& + 31/7776*\ln(3)*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/216*\ln(3)*\ln(6)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 1/216*\ln(3)*\ln(6)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 7/62208*\ln(3)*\ln(8)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 1/864*\ln(3)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 19/2592*\ln(3)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} \\
& - 5/1296*\ln(3)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 5/243*\ln(3)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 1/81*\ln(3)*\ln(8)*F^{-3}*\sin x^8*\cos x*\pi^{-4}*m83^{-2} \\
& + 41/27*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L8r*m83^{-2} + 38/9*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L7r*m83^{-2} + 1/3*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L6r*m83^{-2} - 1/18*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L5r*m83^{-2} \\
& - 1/6*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L4r*m83^{-2} + 128/81*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2 + 146/27*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 4/9*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} + 1/27*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} \\
& + 8/27*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} - 472/27*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} - 464/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} \\
& - 8/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} + 4/27*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} + 4/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} \\
& - 1048/81*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 1072/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 8/9*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} \\
& - 4/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} - 4/9*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} + 256/9*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} \\
& + 256/3*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} + 128/9*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 128/3*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} \\
& - 13/6912*\ln(4)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 1/3456*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/432*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} \\
& + 1/81*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/72*\ln(4)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 1/72*\ln(4)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 7/6912*\ln(4)*\ln(6)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 49/20736*\ln(4)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/144*\ln(4)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} \\
& - 1/36*\ln(4)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 91/82944*\ln(4)*\ln(8)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 79/248832*\ln(4)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 37/2592*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 127/15552*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 113/7776*\ln(4)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 5/216*\ln(4)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 1/216*\ln(4)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} - 55/27*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L8r*m83^{-2} \\
& - 14/3*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L7r*m83^{-2} - 1/3*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L6r*m83^{-2} - 7/54*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L5r*m83^{-2} \\
& + 7/18*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L4r*m83^{-2} + 272/81*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 254/27*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} \\
& - 2/9*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} + 5/27*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} - 2 - 7/9*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} - 472/27*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} \\
& - 464/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} - 8/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} + 4/27*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} \\
& + 4/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} + 1048/81*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 1072/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 8/9*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} \\
& + 4/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} + 4/9*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} + 256/9*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} + 256/3*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} \\
& - 128/9*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 128/3*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 1/768*\ln(6)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 5/2304*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 5/432*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 1/81*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/72*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 1/72*\ln(6)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 55/27648*\ln(6)*\ln(8)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 259/82944*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 37/2592*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 37/2592*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 37/2592*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 37/2592*\ln(6)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 37/2592*\ln(6)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 37/2592*\ln(6)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 127/15552 * \ln(6) * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} - 115/2592 * \ln(6) * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 113/7776 * \ln(6) * \ln(8) * F^{\wedge -} \\
& 3^* \sin x^{\wedge 5} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + 5/216 * \ln(6) * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} - 1/216 * \ln(6) * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 7} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - 7/9 * \ln(8) * F^{\wedge -} \\
& 3^* \cos x^* \pi^{\wedge -2} * L8r * m83^{\wedge -2} - 5/3 * \ln(8) * F^{\wedge -3} * \cos x^* \pi^{\wedge -2} * L7r * m83^{\wedge -2} - \\
& 4/27 * \ln(8) * F^{\wedge -3} * \cos x^* \pi^{\wedge -2} * L6r * m83^{\wedge -2} - 5/81 * \ln(8) * F^{\wedge -3} * \cos x^* \pi^{\wedge -} \\
& 2^* L5r * m83^{\wedge -2} + 136/81 * \ln(8) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -2} * L8r * m83^{\wedge -2} + \\
& 16/3 * \ln(8) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -2} * L7r * m83^{\wedge -2} - 8/27 * \ln(8) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -} \\
& 2^* L6r * m83^{\wedge -2} + 4/81 * \ln(8) * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -2} * L5r * m83^{\wedge -2} - 2/27 * \ln(8) * F^{\wedge -} \\
& 3^* \sin x^* \sqrt{3} * \pi^{\wedge -2} * L4r * m83^{\wedge -2} - 1352/81 * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 2^* L8r * m83^{\wedge -2} - 1312/27 * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L7r * m83^{\wedge -2} - \\
& 8/9 * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L6r * m83^{\wedge -2} + 4/81 * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 2^* L5r * m83^{\wedge -2} - 4/27 * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L4r * m83^{\wedge -2} + 3760/81 * \ln(8) * F^{\wedge -} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L8r * m83^{\wedge -2} + 3776/27 * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -} \\
& 2^* L7r * m83^{\wedge -2} - 16/27 * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L6r * m83^{\wedge -2} + 8/81 * \ln(8) * F^{\wedge -} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L5r * m83^{\wedge -2} + 8/27 * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -} \\
& 2^* L4r * m83^{\wedge -2} - 640/27 * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -2} * L8r * m83^{\wedge -2} - 640/9 * \ln(8) * F^{\wedge -} \\
& 3^* \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -2} * L7r * m83^{\wedge -2} + 5/10368 * \ln(8)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - \\
& 7/15552 * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + 115/15552 * \ln(8)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 73/2592 * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} + 25/972 * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 1/162 * \ln(8)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^{\wedge 8} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 79/103680 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -1} - 113/77760 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + \\
& 211/38880 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 1/486 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 25/6912 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -1} + 341/55296 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + \\
& 61/13824 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 11/1536 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} - 25/6912 / (\text{mass}(5)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -1} + 341/55296 / (\text{mass}(5)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + \\
& 61/13824 / (\text{mass}(5)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 11/1536 / (\text{mass}(5)) * \ln(4)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + 31/6144 / (\text{mass}(6)) * \ln(6)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -1} - 1429/276480 / (\text{mass}(6)) * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + \\
& 61/13824 / (\text{mass}(6)) * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 11/1536 / (\text{mass}(6)) * \ln(6)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + 101/18432 / (\text{mass}(7)) * \ln(6)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -1} - 1669/276480 / (\text{mass}(7)) * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + \\
& 61/13824 / (\text{mass}(7)) * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 11/1536 / (\text{mass}(7)) * \ln(6)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + 29/11520 / (\text{mass}(8)) * \ln(8)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -1} + 1/972 / (\text{mass}(8)) * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + \\
& 209/38880 / (\text{mass}(8)) * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 1/486 / (\text{mass}(8)) * \ln(8)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1}) \\
& + \text{mud}^{\wedge 2} * \text{mpp}^2 * \text{mkp}^2 * (+ 1/5184 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} + 1/7776 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + \\
& 1/972 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 1/5184 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - 1/576 / (\text{mass}(6)) * \ln(6)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} + 1/1296 / (\text{mass}(6)) * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} -
\end{aligned}$$

$$\begin{aligned}
& 7/5184/(\text{mass}(8))^{\ln(8)^2 F^{-3} \cos x \pi^{-4} m83^{-2}} + 1/3888/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2}} - 1/972/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2}} \\
& + \text{mud}^2 \text{mpp}^2 * (+ 5/3456 F^{-3} \cos x \pi^{-4} m83^{-2} + 5/20736 F^{-3} \cos x \pi^{-2} m83^{-2} - 256/3 F^{-3} \cos x L8r^2 m83^{-2} - 1792/9 F^{-3} \cos x L7r L8r m83^{-2} + 512/3 F^{-3} \cos x L7r^2 m83^{-2} + 256/9 F^{-3} \cos x L6r L8r m83^{-2} + 256/3 F^{-3} \cos x L6r L7r m83^{-2} - 1664/27 F^{-3} \cos x L5r L8r m83^{-2} - 1664/9 F^{-3} \cos x L5r L7r m83^{-2} - 128/9 F^{-3} \cos x L4r L8r m83^{-2} - 128/3 F^{-3} \cos x L4r L7r m83^{-2} - 5/3456 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 5/20736 F^{-3} \sin x \sqrt{3} \pi^{-2} m83^{-2} + 19712/27 F^{-3} \sin x \sqrt{3} L8r^2 m83^{-2} + 12032/3 F^{-3} \sin x \sqrt{3} L7r L8r m83^{-2} + 16384/3 F^{-3} \sin x \sqrt{3} L7r^2 m83^{-2} + 256/9 F^{-3} \sin x \sqrt{3} L6r L8r m83^{-2} + 256/3 F^{-3} \sin x \sqrt{3} L6r L7r m83^{-2} + 1408/27 F^{-3} \sin x \sqrt{3} L5r L8r m83^{-2} + 1408/9 F^{-3} \sin x \sqrt{3} L5r L7r m83^{-2} - 128/9 F^{-3} \sin x \sqrt{3} L4r L8r m83^{-2} - 128/3 F^{-3} \sin x \sqrt{3} L4r L7r m83^{-2} - 14336/3 F^{-3} \sin x^2 \cos x L8r^2 m83^{-2} - 260096/9 F^{-3} \sin x^2 \cos x L7r L8r m83^{-2} - 131072/3 F^{-3} \sin x^2 \cos x L7r^2 m83^{-2} + 2048/9 F^{-3} \sin x^2 \cos x L6r L8r m83^{-2} + 2048/3 F^{-3} \sin x^2 \cos x L6r L7r m83^{-2} - 1024/27 F^{-3} \sin x^2 \cos x L5r L8r m83^{-2} - 1024/9 F^{-3} \sin x^2 \cos x L5r L7r m83^{-2} - 1024/9 F^{-3} \sin x^2 \cos x L4r L8r m83^{-2} - 1024/3 F^{-3} \sin x^2 \cos x L4r L7r m83^{-2} + 65536/9 F^{-3} \sin x^4 \cos x L8r^2 m83^{-2} + 131072/3 F^{-3} \sin x^4 \cos x L7r L8r m83^{-2} + 65536 F^{-3} \sin x^4 \cos x L7r^2 m83^{-2} + 8/9 C F^{-3} \cos x \pi^{-2} L8r m83^{-2} + 8/3 C F^{-3} \cos x \pi^{-2} L7r m83^{-2} - 8/9 C F^{-3} \sin x \sqrt{3} \pi^{-2} L8r m83^{-2} - 8/3 C F^{-3} \sin x \sqrt{3} \pi^{-2} L7r m83^{-2} - 1/864 C \ln(1) F^{-3} \cos x \pi^{-4} m83^{-2} - 1/1296 C \ln(1) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 7/10368 C \ln(3) F^{-3} \cos x \pi^{-4} m83^{-2} + 5/10368 C \ln(3) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 1/1296 C \ln(3) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} - 1/1728 C \ln(6) F^{-3} \cos x \pi^{-4} m83^{-2} + 13/5184 C \ln(6) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 5/10368 C \ln(8) F^{-3} \cos x \pi^{-4} m83^{-2} + 7/10368 C \ln(8) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} + 1/1296 C \ln(8) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} - 5/27 \ln(1) F^{-3} \cos x \pi^{-2} L8r m83^{-2} - \ln(1) F^{-3} \cos x \pi^{-2} L7r m83^{-2} - 1/9 \ln(1) F^{-3} \cos x \pi^{-2} L6r m83^{-2} + 1/9 \ln(1) F^{-3} \cos x \pi^{-2} L5r m83^{-2} - 1/18 \ln(1) F^{-3} \cos x \pi^{-2} L4r m83^{-2} - 11/81 \ln(1) F^{-3} \sin x \sqrt{3} \pi^{-2} L8r m83^{-2} - 17/27 \ln(1) F^{-3} \sin x \sqrt{3} \pi^{-2} L7r m83^{-2} + 1/9 \ln(1) F^{-3} \sin x \sqrt{3} \pi^{-2} L6r m83^{-2} + 7/54 \ln(1) F^{-3} \sin x \sqrt{3} \pi^{-2} L4r m83^{-2} + 124/27 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} L8r m83^{-2} + 40/3 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} L7r m83^{-2} + 4/9 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} L6r m83^{-2} - 2/27 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} L5r m83^{-2} - 2/9 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} L4r m83^{-2} - 32/9 \ln(1) F^{-3} \sin x^4 \cos x \pi^{-2} L8r m83^{-2} - 32/3 \ln(1) F^{-3} \sin x^4 \cos x \pi^{-2} L7r m83^{-2} + 1/4608 \ln(1)^2 F^{-3} \cos x \pi^{-4} m83^{-2} - 1/5184 \ln(1)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} + 13/41472 \ln(1) \ln(3) F^{-3} \cos x \pi^{-4} m83^{-2} + 1/10368 \ln(1) \ln(3) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 1/648 \ln(1) \ln(3) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} - 11/2592 \ln(1) \ln(3) F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-2} + 1/216 \ln(1) \ln(3) F^{-3} \sin x^6 \cos x \pi^{-4} m83^{-2} + 5/13824 \ln(1) \ln(4) F^{-3} \cos x \pi^{-4} m83^{-2} + 43/41472 \ln(1) \ln(4) F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 7/1728 * \ln(1) * \ln(4) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 7/1728 * \ln(1) * \ln(4) * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} + 1/288 * \ln(1) * \ln(4) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 1/288 * \ln(1) * \ln(4) * F^{\wedge-3} * \sin x^{\wedge 5} * \sqrt{3}^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 1/6912 * \ln(1) * \ln(6) * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - 7/20736 * \ln(1) * \ln(6) * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 7/1728 * \ln(1) * \ln(6) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} + 7/1728 * \ln(1) * \ln(6) * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} + 1/288 * \ln(1) * \ln(6) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - 1/288 * \ln(1) * \ln(6) * F^{\wedge-3} * \sin x^{\wedge 5} * \sqrt{3}^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 1/41472 * \ln(1) * \ln(8) * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 1/31104 * \ln(1) * \ln(8) * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 1/216 * \ln(1) * \ln(8) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-} \\
& 2 + 23/2592 * \ln(1) * \ln(8) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - 1/216 * \ln(1) * \ln(8) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 5/81 * \ln(3) * F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-2} \\
& - 1/18 * \ln(3) * F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-2} + 13/324 * \ln(3) * F^{\wedge-3} * \cos x^* \pi^{\wedge-} \\
& 2^* L5r^* m83^{\wedge-2} + 1/54 * \ln(3) * F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L4r^* m83^{\wedge-2} - 127/162 * \ln(3) * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L8r^* m83^{\wedge-2} - 13/6 * \ln(3) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L7r^* m83^{\wedge-} \\
& 2 + 1/54 * \ln(3) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L6r^* m83^{\wedge-2} - 1/27 * \ln(3) * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L5r^* m83^{\wedge-2} + 1/108 * \ln(3) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L4r^* m83^{\wedge-} \\
& 2 + 52/9 * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-2} + 460/27 * \ln(3) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-2} + 4/27 * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 2^* L6r^* m83^{\wedge-2} + 2/27 * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L4r^* m83^{\wedge-2} - 328/81 * \ln(3) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-2} - 320/27 * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-} \\
& 2^* L7r^* m83^{\wedge-2} - 8/27 * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-2} * L6r^* m83^{\wedge-2} + 4/81 * \ln(3) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-2} * L5r^* m83^{\wedge-2} + 4/27 * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-} \\
& 2^* L4r^* m83^{\wedge-2} - 128/27 * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-2} - 128/9 * \ln(3) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-2} + 1/165888 * \ln(3)^{\wedge 2} * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-} \\
& 2 + 7/31104 * \ln(3)^{\wedge 2} * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 49/31104 * \ln(3)^{\wedge 2} * F^{\wedge-} \\
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - 1/648 * \ln(3)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} \\
& + 11/1944 * \ln(3)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - 1/648 * \ln(3)^{\wedge 2} * F^{\wedge-} \\
& 3^* \sin x^{\wedge 8} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 43/82944 * \ln(3) * \ln(4) * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} \\
& - 1/248832 * \ln(3) * \ln(4) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 11/2304 * \ln(3) * \ln(4) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - 47/20736 * \ln(3) * \ln(4) * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} + 5/864 * \ln(3) * \ln(4) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 41/7776 * \ln(3) * \ln(4) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 5} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} + 1/432 * \ln(3) * \ln(4) * F^{\wedge-3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 1/432 * \ln(3) * \ln(4) * F^{\wedge-3} * \sin x^{\wedge 7} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 17/20736 * \ln(3) * \ln(6) * F^{\wedge-} \\
& 3^* \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 41/31104 * \ln(3) * \ln(6) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - \\
& 11/2304 * \ln(3) * \ln(6) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 47/20736 * \ln(3) * \ln(6) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} + 5/864 * \ln(3) * \ln(6) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 41/7776 * \ln(3) * \ln(6) * F^{\wedge-3} * \sin x^{\wedge 5} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} + 1/432 * \ln(3) * \ln(6) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 1/432 * \ln(3) * \ln(6) * F^{\wedge-3} * \sin x^{\wedge 7} * \sqrt{3}^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 23/248832 * \ln(3) * \ln(8) * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 35/62208 * \ln(3) * \ln(8) * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 23/5184 * \ln(3) * \ln(8) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} + 11/1296 * \ln(3) * \ln(8) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - 5/972 * \ln(3) * \ln(8) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 1/324 * \ln(3) * \ln(8) * F^{\wedge-3} * \sin x^{\wedge 8} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 19/27 * \ln(4) * F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-2} - 20/9 * \ln(4) * F^{\wedge-} \\
& 3^* \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-2} + 1/9 * \ln(4) * F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L6r^* m83^{\wedge-2} - \\
& 1/54 * \ln(4) * F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L5r^* m83^{\wedge-2} - 1/18 * \ln(4) * F^{\wedge-3} * \cos x^* \pi^{\wedge-} \\
& 2^* L4r^* m83^{\wedge-2} + 4/81 * \ln(4) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L8r^* m83^{\wedge-2} + 4/27 * \ln(4) * F^{\wedge-}
\end{aligned}$$

$$\begin{aligned}
& 2 - 5/162*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} + 1/108*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} + 532/81*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} + 548/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} - \\
& 4/9*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} + 4/81*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} + 2/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} - 1208/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} - \\
& 1216/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} + 8/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-2} - 4/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-2} - \\
& 4/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-2} + 128/27*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-2} + 128/9*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-2} - 7/165888*\ln(8)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} + \\
& 29/62208*\ln(8)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 61/31104*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 7/1296*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - \\
& 1/1944*\ln(8)^2*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} - 1/648*\ln(8)^2*F^{-3}*\sin x^8*\cos x*\pi^{-4}*m83^{-2} + 17/18432/(mass(1))^*\ln(1)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} - \\
& 23/92160/(mass(1))^*\ln(1)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 5/9216/(mass(1))^*\ln(1)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 13/18432/(mass(2))^*\ln(1)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} - \\
& 23/92160/(mass(2))^*\ln(1)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 13/414720/(mass(3))^*\ln(3)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} + 223/1244160/(mass(3))^*\ln(3)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + \\
& 91/155520/(mass(3))^*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 1/972/(mass(3))^*\ln(3)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 7/18432/(mass(4))^*\ln(4)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} - \\
& 61/36864/(mass(4))^*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 19/13824/(mass(4))^*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 61/27648/(mass(4))^*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + \\
& 7/18432/(mass(5))^*\ln(4)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} - 61/36864/(mass(5))^*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 19/13824/(mass(5))^*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + \\
& 61/27648/(mass(5))^*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 263/221184/(mass(6))^*\ln(6)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} + 2591/1105920/(mass(6))^*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + \\
& 19/13824/(mass(6))^*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 61/27648/(mass(6))^*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 263/221184/(mass(7))^*\ln(6)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} + 2831/1105920/(mass(7))^*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + \\
& 19/13824/(mass(7))^*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 61/27648/(mass(7))^*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 91/138240/(mass(8))^*\ln(8)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} + 1397/1244160/(mass(8))^*\ln(8)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + \\
& 329/155520/(mass(8))^*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 1/972/(mass(8))^*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1}) \\
& + \text{mud}^2*\text{mpp}^2*\text{mkp}^2 * (- 1/1728/(mass(1))^*\ln(1)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} + 1/5184/(mass(1))^*\ln(1)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/10368/(mass(3))^*\ln(3)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 31/31104/(mass(3))^*\ln(3)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/3888/(mass(3))^*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 1/1728/(mass(6))^*\ln(6)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 11/2592/(mass(6))^*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/10368/(mass(8))^*\ln(8)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 17/31104/(mass(8))^*\ln(8)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/3888/(mass(8))^*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2}) \\
& + \text{mud}^2*\text{mpp}^2^3 * (+ 1/1728/(mass(1))^*\ln(1)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} +
\end{aligned}$$

$$\begin{aligned}
& 1/2592/(\text{mass}(1))*\ln(1)^2F^{-3}\sin x*\sqrt{3}\pi^{-4}m83^{-2} + 1/62208/(\text{mass}(3))*\ln(3)^2F^{-3}\cos x*\pi^{-4}m83^{-2} + 71/186624/(\text{mass}(3))*\ln(3)^2F^{-3}\sin x*\sqrt{3}\pi^{-4}m83^{-2} - 1/23328/(\text{mass}(3))*\ln(3)^2F^{-3}\sin x^2\cos x*\pi^{-4}m83^{-2} + \\
& 1/2592/(\text{mass}(6))*\ln(6)^2F^{-3}\sin x*\sqrt{3}\pi^{-4}m83^{-2} + 23/62208/(\text{mass}(8))*\ln(8)^2F^{-3}\cos x*\pi^{-4}m83^{-2} - 47/186624/(\text{mass}(8))*\ln(8)^2F^{-3}\sin x*\sqrt{3}\pi^{-4}m83^{-2} + \\
& 1/23328/(\text{mass}(8))*\ln(8)^2F^{-3}\sin x^2\cos x*\pi^{-4}m83^{-2}) \\
& + \text{mud}^3 * (- 1253/663552F^{-3}\cos x*\pi^{-4}m83^{-1} - 293/995328F^{-3}\cos x*\pi^{-2}m83^{-1} - 5/18F^{-3}\cos x*\pi^{-2}L8r*m83^{-1} - 1/9F^{-3}\cos x*\pi^{-2}L7r*m83^{-1} - 5/18F^{-3}\cos x*\pi^{-2}L6r*m83^{-1} + 13/108F^{-3}\cos x*\pi^{-2}L5r*m83^{-1} + 5/36F^{-3}\cos x*\pi^{-2}L4r*m83^{-1} + 1/288F^{-3}\cos x*\pi^{-2}L3r*m83^{-1} + 64/9F^{-3}\cos x*L5r*L8r*m83^{-1} + 64/3F^{-3}\cos x*L5r*L7r*m83^{-1} + 64/3F^{-3}\cos x*L4r*L8r*m83^{-1} + 64F^{-3}\cos x*L4r*L7r*m83^{-1} + 64/3F^{-3}\cos x*CC33*m83^{-1} + 32/3F^{-3}\cos x*CC32*m83^{-1} + 32/3F^{-3}\cos x*CC31*m83^{-1} + 32/3F^{-3}\cos x*CC20*m83^{-1} + 16F^{-3}\cos x*CC19*m83^{-1} - 16/3F^{-3}\cos x*CC18*m83^{-1} - 16/9F^{-3}\cos x*CC17*m83^{-1} - 16/9F^{-3}\cos x*CC14*m83^{-1} + 1253/1990656F^{-3}\sin x*\sqrt{3}\pi^{-4}m83^{-1} + 293/2985984F^{-3}\sin x*\sqrt{3}\pi^{-2}m83^{-1} + 5/54F^{-3}\sin x*\sqrt{3}\pi^{-2}L8r*m83^{-1} + 1/27F^{-3}\sin x*\sqrt{3}\pi^{-2}L7r*m83^{-1} + 5/54F^{-3}\sin x*\sqrt{3}\pi^{-2}L6r*m83^{-1} - 13/324F^{-3}\sin x*\sqrt{3}\pi^{-2}L5r*m83^{-1} - 5/108F^{-3}\sin x*\sqrt{3}\pi^{-2}L4r*m83^{-1} - 1/864F^{-3}\sin x*\sqrt{3}\pi^{-2}L3r*m83^{-1} - 64/27F^{-3}\sin x*\sqrt{3}L5r*L8r*m83^{-1} - 64/9F^{-3}\sin x*\sqrt{3}L5r*L7r*m83^{-1} - 64/9F^{-3}\sin x*\sqrt{3}L4r*L8r*m83^{-1} - 64/3F^{-3}\sin x*\sqrt{3}L4r*L7r*m83^{-1} - 64/9F^{-3}\sin x*\sqrt{3}CC33*m83^{-1} - 32/9F^{-3}\sin x*\sqrt{3}CC32*m83^{-1} - 32/9F^{-3}\sin x*\sqrt{3}CC31*m83^{-1} - 32/9F^{-3}\sin x*\sqrt{3}CC20*m83^{-1} - 16/3F^{-3}\sin x*\sqrt{3}CC19*m83^{-1} + 16/9F^{-3}\sin x*\sqrt{3}CC18*m83^{-1} + 16/27F^{-3}\sin x*\sqrt{3}CC17*m83^{-1} + 16/27F^{-3}\sin x*\sqrt{3}CC14*m83^{-1} + 1253/248832F^{-3}\sin x^2\cos x*\pi^{-4}m83^{-1} + 293/373248F^{-3}\sin x^2\cos x*\pi^{-2}m83^{-1} + 20/27F^{-3}\sin x^2\cos x*\pi^{-2}L8r*m83^{-1} + 8/27F^{-3}\sin x^2\cos x*\pi^{-2}L7r*m83^{-1} + 20/27F^{-3}\sin x^2\cos x*\pi^{-2}L6r*m83^{-1} - 26/81F^{-3}\sin x^2\cos x*\pi^{-2}L5r*m83^{-1} - 10/27F^{-3}\sin x^2\cos x*\pi^{-2}L4r*m83^{-1} - 1/108F^{-3}\sin x^2\cos x*\pi^{-2}L3r*m83^{-1} - 512/27F^{-3}\sin x^2\cos x*L5r*L8r*m83^{-1} - 512/9F^{-3}\sin x^2\cos x*L5r*L7r*m83^{-1} - 512/9F^{-3}\sin x^2\cos x*L4r*L8r*m83^{-1} - 512/3F^{-3}\sin x^2\cos x*L4r*L7r*m83^{-1} - 512/9F^{-3}\sin x^2\cos x*CC33*m83^{-1} - 256/9F^{-3}\sin x^2\cos x*CC32*m83^{-1} - 256/9F^{-3}\sin x^2\cos x*CC31*m83^{-1} - 256/9F^{-3}\sin x^2\cos x*CC20*m83^{-1} - 128/3F^{-3}\sin x^2\cos x*CC19*m83^{-1} + 128/9F^{-3}\sin x^2\cos x*CC18*m83^{-1} + 128/27F^{-3}\sin x^2\cos x*CC17*m83^{-1} + 128/27F^{-3}\sin x^2\cos x*CC14*m83^{-1} - 2/9CF^{-3}\cos x*\pi^{-2}L8r*m83^{-1} - 2/3CF^{-3}\cos x*\pi^{-2}L7r*m83^{-1} + 2/27CF^{-3}\sin x*\sqrt{3}\pi^{-2}L8r*m83^{-1} + 2/9CF^{-3}\sin x*\sqrt{3}\pi^{-2}L7r*m83^{-1} + 16/27CF^{-3}\sin x^2\cos x*\pi^{-2}L8r*m83^{-1} + 16/9CF^{-3}\sin x^2\cos x*\pi^{-2}L7r*m83^{-1} - 13/69120C*\ln(3)F^{-3}\cos x*\pi^{-4}m83^{-1} + 1/69120C*\ln(3)F^{-3}\sin x*\sqrt{3}\pi^{-4}m83^{-1} + 23/25920C*\ln(3)F^{-3}\sin x^2\cos x*\pi^{-4}m83^{-1} - 1/1296C*\ln(3)F^{-3}\sin x^4\cos x*\pi^{-4}m83^{-1} + 1/3456C*\ln(4)F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 1/1728*C*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} \\
& - 1/1728*C*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 1/2304*C*\ln(6)*F^{\wedge-3} \\
& *3^*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 1/2304*C*\ln(6)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - \\
& 1/1728*C*\ln(6)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 1/1728*C*\ln(6)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 11/23040*C*\ln(8)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} \\
& - 23/207360*C*\ln(8)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 43/25920*C*\ln(8)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 1/1296*C*\ln(8)*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} \\
& *\text{m83}^{\wedge-1} - 5/41472*\ln(3)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 23/54*\ln(3)*F^{\wedge-3} \\
& *3^*\cos x^*\pi^{\wedge-2}*\text{L8r}^*\text{m83}^{\wedge-1} - 5/6*\ln(3)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*\text{m83}^{\wedge-1} - \\
& 1/9*\ln(3)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L6r}^*\text{m83}^{\wedge-1} + 1/12*\ln(3)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2} \\
& *\text{L5r}^*\text{m83}^{\wedge-1} + 1/24*\ln(3)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L4r}^*\text{m83}^{\wedge-1} + 1/13824*\ln(3)*F^{\wedge-3} \\
& *3^*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 16/81*\ln(3)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r}^*\text{m83}^{\wedge-1} \\
& + 19/54*\ln(3)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*\text{m83}^{\wedge-1} + 2/27*\ln(3)*F^{\wedge-3} \\
& *3^*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L6r}^*\text{m83}^{\wedge-1} - 25/648*\ln(3)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L5r}^*\text{m83}^{\wedge-1} \\
& - 1/36*\ln(3)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r}^*\text{m83}^{\wedge-1} + 1/15552*\ln(3)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 44/81*\ln(3)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*\text{m83}^{\wedge-1} \\
& + 32/27*\ln(3)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*\text{m83}^{\wedge-1} - 11/81*\ln(3)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L5r}^*\text{m83}^{\wedge-1} + 1/1944*\ln(3)*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} \\
& *\text{m83}^{\wedge-1} + 136/81*\ln(3)*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*\text{m83}^{\wedge-1} + 32/9*\ln(3)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*\text{m83}^{\wedge-1} + 16/27*\ln(3)*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2} \\
& *\text{L6r}^*\text{m83}^{\wedge-1} - 14/81*\ln(3)*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L5r}^*\text{m83}^{\wedge-1} - 2/9*\ln(3)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L4r}^*\text{m83}^{\wedge-1} - 64/81*\ln(3)*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4} \\
& *\text{m83}^{\wedge-1} + 11/55296*\ln(3)^{\wedge 2}*F^{\wedge-3} \\
& *3^*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 55/497664*\ln(3)^{\wedge 2}*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - \\
& 47/248832*\ln(3)^{\wedge 2}*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 7/15552*\ln(3)^{\wedge 2}*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 17/15552*\ln(3)^{\wedge 2}*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4} \\
& *\text{m83}^{\wedge-1} + 1/972*\ln(3)^{\wedge 2}*F^{\wedge-3}*\sin x^{\wedge 8}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 391/1658880*\ln(3)*\ln(4)*F^{\wedge-3} \\
& *3^*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 539/4976640*\ln(3)*\ln(4)*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} \\
& *\text{m83}^{\wedge-1} + 43/207360*\ln(3)*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + \\
& 1/20736*\ln(3)*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}*\text{m38}^{\wedge-1} + 263/622080*\ln(3)*\ln(4)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 1/3888*\ln(3)*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} \\
& *\text{m38}^{\wedge-1} - 11/15552*\ln(3)*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + \\
& 1/1296*\ln(3)*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 1/3888*\ln(3)*\ln(4)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 7}*\sqrt{3}^*\pi^{\wedge-4}*\text{m38}^{\wedge-1} + 1/7776*\ln(3)*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 7}*\sqrt{3}^*\pi^{\wedge-4} \\
& *\text{m83}^{\wedge-1} - 167/1658880*\ln(3)*\ln(6)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 499/4976640*\ln(3)*\ln(6)*F^{\wedge-3} \\
& *3^*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 43/207360*\ln(3)*\ln(6)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} \\
& *\text{m83}^{\wedge-1} - 1/20736*\ln(3)*\ln(6)*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}*\text{m38}^{\wedge-1} - 263/622080*\ln(3)*\ln(6)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 1/3888*\ln(3)*\ln(6)*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} \\
& *\text{m38}^{\wedge-1} + 11/15552*\ln(3)*\ln(6)*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + \\
& 1/1296*\ln(3)*\ln(6)*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 1/3888*\ln(3)*\ln(6)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 7}*\sqrt{3}^*\pi^{\wedge-4}*\text{m38}^{\wedge-1} - 1/7776*\ln(3)*\ln(6)*F^{\wedge-3}*\sin x^{\wedge 7}*\sqrt{3}^*\pi^{\wedge-4} \\
& *\text{m83}^{\wedge-1} + 1/82944*\ln(3)*\ln(8)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 7/248832*\ln(3)*\ln(8)*F^{\wedge-3} \\
& *3^*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 1/13824*\ln(3)*\ln(8)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} \\
& *\text{m83}^{\wedge-1} - 1/972*\ln(3)*\ln(8)*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} + 25/7776*\ln(3)*\ln(8)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 1/486*\ln(3)*\ln(8)*F^{\wedge-3}*\sin x^{\wedge 8}*\cos x^*\pi^{\wedge-4} \\
& *\text{m83}^{\wedge-1} - 11/55296*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-1} - 1/108*\ln(4)*F^{\wedge-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\cos x^*\pi^{\wedge-2}*L8r^*m38^{\wedge-1} - 47/108*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L8r^*m83^{\wedge-1} \\
& - 7/9*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L7r^*m83^{\wedge-1} - 1/36*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2} \\
& *L6r^*m38^{\wedge-1} - 1/36*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L6r^*m83^{\wedge-1} + 1/216*\ln(4)*F^{\wedge-3} \\
& *3^*\cos x^*\pi^{\wedge-2}*L5r^*m38^{\wedge-1} + 19/216*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L5r^*m83^{\wedge-1} \\
& + 1/72*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L4r^*m38^{\wedge-1} + 1/72*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2} \\
& *L4r^*m83^{\wedge-1} + 19/55296*\ln(4)*F^{\wedge-3}*\sin x^*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} - 7/324*\ln(4)*F^{\wedge-3} \\
& *3^*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L8r^*m38^{\wedge-1} + 49/324*\ln(4)*F^{\wedge-3}*\sin x^*\sqrt{3}*\pi^{\wedge-2} \\
& *L8r^*m83^{\wedge-1} - 1/9*\ln(4)*F^{\wedge-3}*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L7r^*m38^{\wedge-1} + 25/54*\ln(4)*F^{\wedge-3} \\
& *3^*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L7r^*m83^{\wedge-1} + 5/108*\ln(4)*F^{\wedge-3}*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L6r^*m38^{\wedge-1} \\
& - 19/108*\ln(4)*F^{\wedge-3}*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L6r^*m83^{\wedge-1} - 5/648*\ln(4)*F^{\wedge-3} \\
& *3^*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L5r^*m38^{\wedge-1} - 17/648*\ln(4)*F^{\wedge-3}*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L5r^*m83^{\wedge-1} \\
& - 5/216*\ln(4)*F^{\wedge-3}*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L4r^*m38^{\wedge-1} + 13/216*\ln(4)*F^{\wedge-3} \\
& *3^*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L4r^*m83^{\wedge-1} + 1/72*\ln(4)*F^{\wedge-3}*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L3r^*m83^{\wedge-1} \\
& + 1/13824*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} + 34/27*\ln(4)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*L8r^*m83^{\wedge-1} + 2*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*L7r^*m83^{\wedge-1} \\
& + 4/9*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*L6r^*m83^{\wedge-1} - 13/54*\ln(4)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*L5r^*m83^{\wedge-1} - 1/6*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*L4r^*m83^{\wedge-1} \\
& - 1/36*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*L3r^*m83^{\wedge-1} - 89/124416*\ln(4)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} + 14/81*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2}*L8r^*m38^{\wedge-1} \\
& - 16/81*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2}*L8r^*m83^{\wedge-1} + 16/27*\ln(4)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2}*L7r^*m38^{\wedge-1} - 26/27*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2} \\
& *L7r^*m83^{\wedge-1} - 2/27*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2}*L6r^*m38^{\wedge-1} + 10/27*\ln(4)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2}*L6r^*m83^{\wedge-1} + 1/81*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2} \\
& *L5r^*m38^{\wedge-1} - 1/162*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2}*L5r^*m83^{\wedge-1} + \\
& 1/27*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2}*L4r^*m38^{\wedge-1} - 7/54*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2} \\
& *L4r^*m83^{\wedge-1} - 1/36*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2}*L3r^*m83^{\wedge-1} + 1/3888*\ln(4)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 5}*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} - 16/81*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}*\pi^{\wedge-2}*L8r^*m38^{\wedge-1} \\
& + 8/27*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}*\pi^{\wedge-2}*L8r^*m83^{\wedge-1} - 16/27*\ln(4)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 5}*\sqrt{3}*\pi^{\wedge-2}*L7r^*m38^{\wedge-1} + 8/9*\ln(4)*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}*\pi^{\wedge-2} \\
& *L7r^*m83^{\wedge-1} + 1/27648*\ln(4)^{\wedge 2}*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*m38^{\wedge-1} - 1/6144*\ln(4)^{\wedge 2}*F^{\wedge-3} \\
& *3^*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} + 1/82944*\ln(4)^{\wedge 2}*F^{\wedge-3}*\sin x^*\sqrt{3}*\pi^{\wedge-4}*m38^{\wedge-1} + \\
& 23/165888*\ln(4)^{\wedge 2}*F^{\wedge-3}*\sin x^*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} + 1/6912*\ln(4)^{\wedge 2}*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*m38^{\wedge-1} - 7/41472*\ln(4)^{\wedge 2}*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} \\
& *m83^{\wedge-1} - 5/20736*\ln(4)^{\wedge 2}*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-4}*m38^{\wedge-1} + 5/41472*\ln(4)^{\wedge 2}*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} - 1/1728*\ln(4)^{\wedge 2}*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*m38^{\wedge-1} \\
& + 1/1152*\ln(4)^{\wedge 2}*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} + 1/5184*\ln(4)^{\wedge 2}*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 5}*\sqrt{3}*\pi^{\wedge-4}*m38^{\wedge-1} - 1/3456*\ln(4)^{\wedge 2}*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}*\pi^{\wedge-4} \\
& *m83^{\wedge-1} - 1/9216*\ln(4)*\ln(6)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*m38^{\wedge-1} + 5/55296*\ln(4)*\ln(6)*F^{\wedge-3} \\
& *3^*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} + 1/9216*\ln(4)*\ln(6)*F^{\wedge-3}*\sin x^*\sqrt{3}*\pi^{\wedge-4}*m38^{\wedge-1} - \\
& 23/165888*\ln(4)*\ln(6)*F^{\wedge-3}*\sin x^*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} - 1/3456*\ln(4)*\ln(6)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*m38^{\wedge-1} + 13/20736*\ln(4)*\ln(6)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} \\
& *m83^{\wedge-1} + 1/864*\ln(4)*\ln(6)*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*m38^{\wedge-1} - 1/576*\ln(4)*\ln(6)*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} + 1/41472*\ln(4)*\ln(8)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*m38^{\wedge-1} - \\
& 509/1658880*\ln(4)*\ln(8)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} + 1/124416*\ln(4)*\ln(8)*F^{\wedge-3} \\
& *3^*\sin x^*\sqrt{3}*\pi^{\wedge-4}*m38^{\wedge-1} + 961/4976640*\ln(4)*\ln(8)*F^{\wedge-3}*\sin x^*\sqrt{3}*\pi^{\wedge-4} \\
& *m83^{\wedge-1} + 59/69120*\ln(4)*\ln(8)*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} - 5/20736*\ln(4)*\ln(8)*F^{\wedge-3}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^3 * \sqrt{3} * \pi^{-4} * m^{38}^{-1} - 263/622080 * \ln(4) * \ln(8) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m^{38}^{-1} + 1/1944 * \ln(4) * \ln(8) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m^{38}^{-1} + 5/15552 * \ln(4) * \ln(8) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m^{38}^{-1} - 1/1296 * \ln(4) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m^{38}^{-1} - 1/3888 * \ln(4) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m^{38}^{-1} - 1/7776 * \ln(4) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m^{38}^{-1} + 1/6912 * \ln(6) * F^{-3} * \cos x * \pi^{-4} * m^{38}^{-1} + 1/108 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L_{8r} * m^{38}^{-1} - 55/108 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L_{8r} * m^{38}^{-1} - 13/18 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L_{7r} * m^{38}^{-1} + 1/36 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L_{6r} * m^{38}^{-1} - 11/36 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L_{6r} * m^{38}^{-1} - 1/216 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L_{5r} * m^{38}^{-1} + 5/54 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L_{5r} * m^{38}^{-1} - 1/72 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L_{4r} * m^{38}^{-1} + 1/9 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L_{4r} * m^{38}^{-1} + 1/48 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L_{3r} * m^{38}^{-1} - 1/3072 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m^{38}^{-1} + 7/324 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L_{8r} * m^{38}^{-1} + 53/324 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L_{8r} * m^{38}^{-1} + 1/9 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L_{7r} * m^{38}^{-1} + 1/27 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L_{7r} * m^{38}^{-1} - 5/108 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L_{6r} * m^{38}^{-1} + 31/108 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L_{6r} * m^{38}^{-1} + 5/648 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L_{5r} * m^{38}^{-1} - 11/324 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L_{5r} * m^{38}^{-1} + 5/216 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L_{4r} * m^{38}^{-1} - 11/108 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L_{4r} * m^{38}^{-1} - 1/48 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L_{3r} * m^{38}^{-1} + 1/13824 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m^{38}^{-1} + 34/27 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L_{8r} * m^{38}^{-1} + 2 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L_{7r} * m^{38}^{-1} + 4/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L_{6r} * m^{38}^{-1} - 13/54 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L_{5r} * m^{38}^{-1} - 1/6 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L_{4r} * m^{38}^{-1} - 1/36 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L_{3r} * m^{38}^{-1} + 89/124416 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m^{38}^{-1} - 14/81 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L_{8r} * m^{38}^{-1} + 16/81 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L_{8r} * m^{38}^{-1} - 16/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L_{7r} * m^{38}^{-1} + 26/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L_{7r} * m^{38}^{-1} + 2/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L_{6r} * m^{38}^{-1} - 10/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L_{6r} * m^{38}^{-1} - 1/81 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L_{5r} * m^{38}^{-1} + 1/162 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L_{5r} * m^{38}^{-1} - 1/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L_{4r} * m^{38}^{-1} + 7/54 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L_{4r} * m^{38}^{-1} + 1/36 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L_{3r} * m^{38}^{-1} - 1/3888 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m^{38}^{-1} + 16/81 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L_{8r} * m^{38}^{-1} - 8/27 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L_{8r} * m^{38}^{-1} + 16/27 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L_{7r} * m^{38}^{-1} - 8/9 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L_{7r} * m^{38}^{-1} + 1/13824 * \ln(6)^2 * F^{-3} * \cos x * \pi^{-4} * m^{38}^{-1} - 1/27648 * \ln(6)^2 * F^{-3} * \cos x * \pi^{-4} * m^{38}^{-1} - 5/41472 * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m^{38}^{-1} + 1/27648 * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m^{38}^{-1} - 7/41472 * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m^{38}^{-1} + 5/20736 * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m^{38}^{-1} - 1/1728 * \ln(6)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m^{38}^{-1} + 1/1152 * \ln(6)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m^{38}^{-1} - 1/5184 * \ln(6)^2 * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m^{38}^{-1} + 1/3456 * \ln(6)^2 * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m^{38}^{-1} - 1/41472 * \ln(6) * \ln(8) * F^{-3} * \cos x * \pi^{-4} * m^{38}^{-1} - 253/1658880 * \ln(6) * \ln(8) * F^{-3} * \cos x * \pi^{-4} * m^{38}^{-1} - 1/124416 * \ln(6) * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m^{38}^{-1} - 679/4976640 * \ln(6) * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m^{38}^{-1} + 59/69120 * \ln(6) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m^{38}^{-1} +
\end{aligned}$$

$$\begin{aligned}
& 5/20736*\ln(6)*\ln(8)*F^{-3*\sin x^3*\sqrt{3*\pi}^{-4}*m38^{-1}} + 263/622080*\ln(6)*\ln(8)*F^{-3*\sin x^3*\sqrt{3*\pi}^{-4}*m83^{-1}} - \\
& 3*\sin x^3*\sqrt{3*\pi}^{-4}*m83^{-1} - 1/1944*\ln(6)*\ln(8)*F^{-3*\sin x^5*\sqrt{3*\pi}^{-4}*m38^{-1}} - 5/15552*\ln(6)*\ln(8)*F^{-3*\sin x^5*\sqrt{3*\pi}^{-4}*m83^{-1}} - 1/1296*\ln(6)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-1}} + 1/3888*\ln(6)*\ln(8)*F^{-3*\sin x^7*\sqrt{3*\pi}^{-4}*m38^{-1}} + 1/7776*\ln(6)*\ln(8)*F^{-3*\sin x^7*\sqrt{3*\pi}^{-4}*m83^{-1}} - 1/20736*\ln(8)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} - 5/18*\ln(8)*F^{-3*\cos x*\pi^{-2}*L8r*m83^{-1}} - 7/18*\ln(8)*F^{-3*\cos x*\pi^{-2}*L7r*m83^{-1}} - 1/9*\ln(8)*F^{-3*\cos x*\pi^{-2}*L6r*m83^{-1}} + 1/27*\ln(8)*F^{-3*\cos x*\pi^{-2}*L5r*m83^{-1}} + 1/24*\ln(8)*F^{-3*\cos x*\pi^{-2}*L4r*m83^{-1}} - 1/62208*\ln(8)*F^{-3*\sin x*\sqrt{3*\pi}^{-4}*m83^{-1}} + 1/27*\ln(8)*F^{-3*\sin x*\sqrt{3*\pi}^{-2}*L8r*m83^{-1}} + 1/18*\ln(8)*F^{-3*\sin x*\sqrt{3*\pi}^{-2}*L7r*m83^{-1}} - 1/648*\ln(8)*F^{-3*\sin x*\sqrt{3*\pi}^{-2}*L5r*m83^{-1}} + 1/2592*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + 4/3*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1}} + 56/27*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1}} + 16/27*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1}} - 5/27*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1}} - 2/9*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1}} - 1/1944*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} - 136/81*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1}} - 32/9*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1}} - 16/27*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-1}} + 14/81*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-1}} + 2/9*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-1}} + 64/81*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-1}} + 64/27*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-1}} + 17/165888*\ln(8)^2*F^{-3*\cos x*\pi^{-4}*m83^{-1}} - 11/497664*\ln(8)^2*F^{-3*\sin x*\sqrt{3*\pi}^{-4}*m83^{-1}} - 143/248832*\ln(8)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + 23/15552*\ln(8)^2*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} - 11/5184*\ln(8)^2*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-1}} + 1/972*\ln(8)^2*F^{-3*\sin x^8*\cos x*\pi^{-4}*m83^{-1}} - 103/552960/(mass(3))*\ln(3)^2*F^{-3*\cos x*\pi^{-4}} + 283/1105920/(mass(3))*\ln(3)^2*F^{-3*\sin x*\sqrt{3*\pi}^{-4}} - 1/12960/(mass(3))*\ln(3)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}} - 1/6480/(mass(3))*\ln(3)^2*F^{-3*\sin x^4*\cos x*\pi^{-4}} + 1/122880/(mass(4))*\ln(4)^2*F^{-3*\cos x*\pi^{-4}} + 1/40960/(mass(4))*\ln(4)^2*F^{-3*\sin x*\sqrt{3*\pi}^{-4}} - 7/92160/(mass(4))*\ln(4)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}} - 1/18432/(mass(4))*\ln(4)^2*F^{-3*\sin x^3*\sqrt{3*\pi}^{-4}} + 13/368640/(mass(5))*\ln(4)^2*F^{-3*\cos x*\pi^{-4}} + 17/1105920/(mass(5))*\ln(4)^2*F^{-3*\sin x*\sqrt{3*\pi}^{-4}} - 41/276480/(mass(5))*\ln(4)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}} - 1/18432/(mass(5))*\ln(4)^2*F^{-3*\sin x^3*\sqrt{3*\pi}^{-4}} - 9/20480/(mass(6))*\ln(6)^2*F^{-3*\cos x*\pi^{-4}} + 29/368640/(mass(6))*\ln(6)^2*F^{-3*\sin x*\sqrt{3*\pi}^{-4}} - 7/92160/(mass(6))*\ln(6)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}} + 1/18432/(mass(6))*\ln(6)^2*F^{-3*\sin x^3*\sqrt{3*\pi}^{-4}} - 19/46080/(mass(7))*\ln(6)^2*F^{-3*\cos x*\pi^{-4}} + 77/1105920/(mass(7))*\ln(6)^2*F^{-3*\sin x*\sqrt{3*\pi}^{-4}} - 41/276480/(mass(7))*\ln(6)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}} + 1/18432/(mass(7))*\ln(6)^2*F^{-3*\sin x^3*\sqrt{3*\pi}^{-4}} - 59/276480/(mass(8))*\ln(8)^2*F^{-3*\cos x*\pi^{-4}} - 347/3317760/(mass(8))*\ln(8)^2*F^{-3*\sin x*\sqrt{3*\pi}^{-4}} - 1/4320/(mass(8))*\ln(8)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}} + 1/6480/(mass(8))*\ln(8)^2*F^{-3*\sin x^4*\cos x*\pi^{-4}} \\
& + \text{mud}^3*\text{mkp}2 * (- 5/3456*F^{-3*\cos x*\pi^{-4}*m83^{-2}} - 5/20736*F^{-3*\cos x*\pi^{-2}*m83^{-2}} + 512/9*F^{-3*\cos x*L8r*\pi^{-2}*m83^{-2}} + 1024/9*F^{-3*\cos x*L7r*L8r*m83^{-2}} - 512/3*F^{-3*\cos x*L7r^2*m83^{-2}} - 1024/9*F^{-3*\cos x*L6r*L8r*m83^{-2}} - 1024/3*F^{-3*\cos x*L6r*L7r*m83^{-2}} + 2048/27*F^{-3*\cos x*L5r*L8r*m83^{-2}} + 2048/9*F^{-3*\cos x*L5r*L7r*m83^{-2}} + 512/9*F^{-
\end{aligned}$$

$$\begin{aligned}
& 3^*\cos x^*L4r^*L8r^*m83^{\wedge}-2 + 512/3^*F^{\wedge}-3^*\cos x^*L4r^*L7r^*m83^{\wedge}-2 - 5/10368^*F^{\wedge}- \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 5/62208^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*m83^{\wedge}-2 - \\
& 512/3^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L8r^{\wedge}2^*m83^{\wedge}-2 - 3584/3^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L7r^*L8r^*m83^{\wedge}- \\
& 2 - 2048^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L7r^{\wedge}2^*m83^{\wedge}-2 + 512/3^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L6r^*L8r^*m83^{\wedge}- \\
& 2 + 512^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L6r^*L7r^*m83^{\wedge}-2 - 256/9^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L5r^*L8r^*m83^{\wedge}- \\
& 2 - 256/3^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L5r^*L7r^*m83^{\wedge}-2 + 256/9^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L4r^*L8r^*m83^{\wedge}- \\
& 2 + 256/3^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L4r^*L7r^*m83^{\wedge}-2 + 16384/9^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L8r^{\wedge}2^*m83^{\wedge}- \\
& 2 + 278528/27^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L7r^*L8r^*m83^{\wedge}-2 + 131072/9^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L7r^{\wedge}2^*m83^{\wedge}- \\
& 2 + 16384/27^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L6r^*L8r^*m83^{\wedge}-2 + 16384/9^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L6r^*L7r^*m83^{\wedge}- \\
& 2 - 8192/81^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L5r^*L8r^*m83^{\wedge}-2 - 8192/27^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L5r^*L7r^*m83^{\wedge}- \\
& 2 - 8192/27^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L4r^*L8r^*m83^{\wedge}-2 - 8192/9^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L4r^*L7r^*m83^{\wedge}- \\
& 2 - 65536/27^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*L8r^{\wedge}2^*m83^{\wedge}-2 - 131072/9^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*L7r^*L8r^*m83^{\wedge}- \\
& 2 - 65536/3^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*L7r^{\wedge}2^*m83^{\wedge}-2 - 8/9^*C^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}- \\
& 2^*L8r^*m83^{\wedge}-2 - 8/3^*C^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 - 8/27^*C^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}- \\
& 2^*L8r^*m83^{\wedge}-2 - 8/9^*C^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 + 5/5184^*C^*\ln(3)^*F^{\wedge}- \\
& 3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 1/5184^*C^*\ln(3)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 - \\
& 1/486^*C^*\ln(3)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/1728^*C^*\ln(4)^*F^{\wedge}- \\
& 3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/5184^*C^*\ln(4)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 + \\
& 1/864^*C^*\ln(6)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/2592^*C^*\ln(6)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 + 1/5184^*C^*\ln(8)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/1728^*C^*\ln(8)^*F^{\wedge}- \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/486^*C^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 \\
& + 16/81^*\ln(3)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 + 8/9^*\ln(3)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}- \\
& 2^*L7r^*m83^{\wedge}-2 - 4/81^*\ln(3)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-2^*L5r^*m83^{\wedge}-2 - 2/27^*\ln(3)^*F^{\wedge}- \\
& 3^*\cos x^*\pi^{\wedge}-2^*L4r^*m83^{\wedge}-2 + 4/27^*\ln(3)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 + \\
& 4/9^*\ln(3)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 - 1/9^*\ln(3)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}- \\
& 2^*L6r^*m83^{\wedge}-2 + 1/27^*\ln(3)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L5r^*m83^{\wedge}-2 + 1/54^*\ln(3)^*F^{\wedge}- \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L4r^*m83^{\wedge}-2 - 32/27^*\ln(3)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}- \\
& 2 - 352/81^*\ln(3)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 + 32/81^*\ln(3)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 + 16/81^*\ln(3)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}- \\
& 2^*L4r^*m83^{\wedge}-2 - 1088/243^*\ln(3)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 - \\
& 1024/81^*\ln(3)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 - 64/81^*\ln(3)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 + 32/243^*\ln(3)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}- \\
& 2^*L5r^*m83^{\wedge}-2 + 32/81^*\ln(3)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-2^*L4r^*m83^{\wedge}-2 + \\
& 512/81^*\ln(3)^*F^{\wedge}-3^*\sin x^{\wedge}6^*\cos x^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 + 512/27^*\ln(3)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}6^*\cos x^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 - 1/5184^*\ln(3)^{\wedge}2^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 \\
& + 7/124416^*\ln(3)^{\wedge}2^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 5/11664^*\ln(3)^{\wedge}2^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/972^*\ln(3)^{\wedge}2^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}- \\
& 2 + 2/729^*\ln(3)^{\wedge}2^*F^{\wedge}-3^*\sin x^{\wedge}6^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 1/243^*\ln(3)^{\wedge}2^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}8^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 5/41472^*\ln(3)^*\ln(4)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 - \\
& 155/186624^*\ln(3)^*\ln(4)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 11/7776^*\ln(3)^*\ln(4)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/7776^*\ln(3)^*\ln(4)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 + 7/1944^*\ln(3)^*\ln(4)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 37/5832^*\ln(3)^*\ln(4)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 1/162^*\ln(3)^*\ln(4)^*F^{\wedge}-3^*\sin x^{\wedge}6^*\cos x^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 - 1/162^*\ln(3)^*\ln(4)^*F^{\wedge}-3^*\sin x^{\wedge}7^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 25/41472^*\ln(3)^*\ln(6)^*F^{\wedge}- \\
& 3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 83/186624^*\ln(3)^*\ln(6)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 \\
& + 11/7776^*\ln(3)^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 1/7776^*\ln(3)^*\ln(6)^*F^{\wedge}-
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 7/1944^* \ln(3)^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 - 37/5832^* \ln(3)^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 5^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 1/162^* \ln(3)^* \ln(6)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 6^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 1/162^* \ln(3)^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 7^* \sqrt{3}^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 + 1/7776^* \ln(3)^* \ln(8)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 1/3888^* \ln(3)^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 1/1944^* \ln(3)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 + 1/243^* \ln(3)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 10/729^* \ln(3)^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 6^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 2/243^* \ln(3)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 8^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 + 1/18^* \ln(4)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 + 4/9^* \ln(4)^* F^{\wedge} - \\
& 3^* \cos x^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 - 1/6^* \ln(4)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L6r^* m83^{\wedge} -2 + \\
& 1/108^* \ln(4)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L5r^* m83^{\wedge} -2 - 1/36^* \ln(4)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} - \\
& 2^* L4r^* m83^{\wedge} -2 + 553/486^* \ln(4)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 + \\
& 260/81^* \ln(4)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 + 17/54^* \ln(4)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} - \\
& 2^* L6r^* m83^{\wedge} -2 - 23/324^* \ln(4)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L5r^* m83^{\wedge} -2 - 13/108^* \ln(4)^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L4r^* m83^{\wedge} -2 - 80/27^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} - \\
& 2 - 224/27^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 - 16/27^* \ln(4)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L6r^* m83^{\wedge} -2 + 8/81^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 2^* L5r^* m83^{\wedge} -2 + 8/27^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L4r^* m83^{\wedge} -2 - 1232/243^* \ln(4)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 - 1184/81^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} - \\
& 2^* L7r^* m83^{\wedge} -2 - 16/27^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -2^* L6r^* m83^{\wedge} -2 + \\
& 8/81^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -2^* L5r^* m83^{\wedge} -2 + 8/27^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} - \\
& 2^* L4r^* m83^{\wedge} -2 + 128/27^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 + \\
& 128/9^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 + 128/27^* \ln(4)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 5^* \sqrt{3}^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 + 128/9^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 5^* \sqrt{3}^* \pi^{\wedge} - \\
& 2^* L7r^* m83^{\wedge} -2 - 5/13824^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 19/124416^* \ln(4)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 1/648^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + \\
& 17/3888^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 1/216^* \ln(4)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 1/216^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 5^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} - \\
& 2 + 5/13824^* \ln(4)^* \ln(6)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 59/41472^* \ln(4)^* \ln(6)^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 5/648^* \ln(4)^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 - 1/54^* \ln(4)^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 5/41472^* \ln(4)^* \ln(8)^* F^{\wedge} - \\
& 3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 49/62208^* \ln(4)^* \ln(8)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 + \\
& 7/2592^* \ln(4)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 157/23328^* \ln(4)^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 19/1944^* \ln(4)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 - 73/5832^* \ln(4)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 5^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 1/162^* \ln(4)^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 6^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 1/162^* \ln(4)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 7^* \sqrt{3}^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 - 5/18^* \ln(6)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 - 2/3^* \ln(6)^* F^{\wedge} - \\
& 3^* \cos x^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 + 7/18^* \ln(6)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L6r^* m83^{\wedge} -2 - \\
& 17/108^* \ln(6)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L5r^* m83^{\wedge} -2 - 1/12^* \ln(6)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} - \\
& 2^* L4r^* m83^{\wedge} -2 - 139/486^* \ln(6)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 - 26/81^* \ln(6)^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 - 35/54^* \ln(6)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L6r^* m83^{\wedge} - \\
& 2 + 41/324^* \ln(6)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L5r^* m83^{\wedge} -2 + 7/108^* \ln(6)^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L4r^* m83^{\wedge} -2 - 80/27^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} - \\
& 2 - 224/27^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 - 16/27^* \ln(6)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L6r^* m83^{\wedge} -2 + 8/81^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 2^* L5r^* m83^{\wedge} -2 + 8/27^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L4r^* m83^{\wedge} -2 + 1232/243^* \ln(6)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 + 1184/81^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -
\end{aligned}$$

$$\begin{aligned}
& 2^*L7r^*m83^{\wedge}-2 + 16/27^*ln(6)^*F^{\wedge}-3^*sinx^{\wedge}3^*sqrt3^*pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 - \\
& 8/81^*ln(6)^*F^{\wedge}-3^*sinx^{\wedge}3^*sqrt3^*pi^{\wedge}-2^*L5r^*m83^{\wedge}-2 - 8/27^*ln(6)^*F^{\wedge}-3^*sinx^{\wedge}3^*sqrt3^*pi^{\wedge}- \\
& 2^*L4r^*m83^{\wedge}-2 + 128/27^*ln(6)^*F^{\wedge}-3^*sinx^{\wedge}4^*cosx^*pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 + \\
& 128/9^*ln(6)^*F^{\wedge}-3^*sinx^{\wedge}4^*cosx^*pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 - 128/27^*ln(6)^*F^{\wedge}-3^*sinx^{\wedge}5^*sqrt3^*pi^{\wedge}- \\
& 2^*L8r^*m83^{\wedge}-2 - 128/9^*ln(6)^*F^{\wedge}-3^*sinx^{\wedge}5^*sqrt3^*pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 + \\
& 1/4608^*ln(6)^{\wedge}2^*F^{\wedge}-3^*cosx^*pi^{\wedge}-4^*m83^{\wedge}-2 + 35/62208^*ln(6)^{\wedge}2^*F^{\wedge}-3^*sinx^*sqrt3^*pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 - 1/648^*ln(6)^{\wedge}2^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx^*pi^{\wedge}-4^*m83^{\wedge}-2 - 17/3888^*ln(6)^{\wedge}2^*F^{\wedge}- \\
& 3^*sinx^{\wedge}3^*sqrt3^*pi^{\wedge}-4^*m83^{\wedge}-2 + 1/216^*ln(6)^{\wedge}2^*F^{\wedge}-3^*sinx^{\wedge}4^*cosx^*pi^{\wedge}-4^*m83^{\wedge}- \\
& 2 + 1/216^*ln(6)^{\wedge}2^*F^{\wedge}-3^*sinx^{\wedge}5^*sqrt3^*pi^{\wedge}-4^*m83^{\wedge}-2 + 11/13824^*ln(6)^*ln(8)^*F^{\wedge}- \\
& 3^*cosx^*pi^{\wedge}-4^*m83^{\wedge}-2 + 13/62208^*ln(6)^*ln(8)^*F^{\wedge}-3^*sinx^*sqrt3^*pi^{\wedge}-4^*m83^{\wedge}-2 + \\
& 7/2592^*ln(6)^*ln(8)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx^*pi^{\wedge}-4^*m83^{\wedge}-2 - 157/23328^*ln(6)^*ln(8)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}3^*sqrt3^*pi^{\wedge}-4^*m83^{\wedge}-2 - 19/1944^*ln(6)^*ln(8)^*F^{\wedge}-3^*sinx^{\wedge}4^*cosx^*pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 + 73/5832^*ln(6)^*ln(8)^*F^{\wedge}-3^*sinx^{\wedge}5^*sqrt3^*pi^{\wedge}-4^*m83^{\wedge}-2 + \\
& 1/162^*ln(6)^*ln(8)^*F^{\wedge}-3^*sinx^{\wedge}6^*cosx^*pi^{\wedge}-4^*m83^{\wedge}-2 - 1/162^*ln(6)^*ln(8)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}7^*sqrt3^*pi^{\wedge}-4^*m83^{\wedge}-2 - 8/27^*ln(8)^*F^{\wedge}-3^*cosx^*pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 - \\
& - 8/9^*ln(8)^*F^{\wedge}-3^*cosx^*pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 + 4/27^*ln(8)^*F^{\wedge}-3^*cosx^*pi^{\wedge}- \\
& 2^*L6r^*m83^{\wedge}-2 - 4/81^*ln(8)^*F^{\wedge}-3^*cosx^*pi^{\wedge}-2^*L5r^*m83^{\wedge}-2 + 2/9^*ln(8)^*F^{\wedge}- \\
& 3^*sinx^*sqrt3^*pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 + 8/9^*ln(8)^*F^{\wedge}-3^*sinx^*sqrt3^*pi^{\wedge}-2^*L7r^*m83^{\wedge}- \\
& 2 - 1/9^*ln(8)^*F^{\wedge}-3^*sinx^*sqrt3^*pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 - 1/18^*ln(8)^*F^{\wedge}-3^*sinx^*sqrt3^*pi^{\wedge}- \\
& 2^*L4r^*m83^{\wedge}-2 - 928/243^*ln(8)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx^*pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 - \\
& 800/81^*ln(8)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx^*pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 - 32/27^*ln(8)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx^*pi^{\wedge}- \\
& 2^*L6r^*m83^{\wedge}-2 + 32/243^*ln(8)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx^*pi^{\wedge}-2^*L5r^*m83^{\wedge}-2 + \\
& 16/81^*ln(8)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx^*pi^{\wedge}-2^*L4r^*m83^{\wedge}-2 + 2624/243^*ln(8)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}4^*cosx^*pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 + 2560/81^*ln(8)^*F^{\wedge}-3^*sinx^{\wedge}4^*cosx^*pi^{\wedge}- \\
& 2^*L7r^*m83^{\wedge}-2 + 64/81^*ln(8)^*F^{\wedge}-3^*sinx^{\wedge}4^*cosx^*pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 - 32/243^*ln(8)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}4^*cosx^*pi^{\wedge}-2^*L5r^*m83^{\wedge}-2 - 32/81^*ln(8)^*F^{\wedge}-3^*sinx^{\wedge}4^*cosx^*pi^{\wedge}- \\
& 2^*L4r^*m83^{\wedge}-2 - 512/81^*ln(8)^*F^{\wedge}-3^*sinx^{\wedge}6^*cosx^*pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 - 512/27^*ln(8)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}6^*cosx^*pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 + 1/10368^*ln(8)^{\wedge}2^*F^{\wedge}-3^*cosx^*pi^{\wedge}-4^*m83^{\wedge}-2 \\
& + 1/124416^*ln(8)^{\wedge}2^*F^{\wedge}-3^*sinx^*sqrt3^*pi^{\wedge}-4^*m83^{\wedge}-2 + 29/11664^*ln(8)^{\wedge}2^*F^{\wedge}- \\
& 3^*sinx^{\wedge}2^*cosx^*pi^{\wedge}-4^*m83^{\wedge}-2 - 1/108^*ln(8)^{\wedge}2^*F^{\wedge}-3^*sinx^{\wedge}4^*cosx^*pi^{\wedge}-4^*m83^{\wedge}- \\
& 2 + 8/729^*ln(8)^{\wedge}2^*F^{\wedge}-3^*sinx^{\wedge}6^*cosx^*pi^{\wedge}-4^*m83^{\wedge}-2 - 1/243^*ln(8)^{\wedge}2^*F^{\wedge}- \\
& 3^*sinx^{\wedge}8^*cosx^*pi^{\wedge}-4^*m83^{\wedge}-2 - 23/51840/(mass(3))^*ln(3)^{\wedge}2^*F^{\wedge}-3^*cosx^*pi^{\wedge}- \\
& 4^*m83^{\wedge}-1 + 5/124416/(mass(3))^*ln(3)^{\wedge}2^*F^{\wedge}-3^*sinx^*sqrt3^*pi^{\wedge}-4^*m83^{\wedge}-1 + \\
& 91/58320/(mass(3))^*ln(3)^{\wedge}2^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx^*pi^{\wedge}-4^*m83^{\wedge}-1 + 2/729/(mass(3))^*ln(3)^{\wedge}2^*F^{\wedge}- \\
& 3^*sinx^{\wedge}4^*cosx^*pi^{\wedge}-4^*m83^{\wedge}-1 - 317/221184/(mass(4))^*ln(4)^{\wedge}2^*F^{\wedge}-3^*cosx^*pi^{\wedge}- \\
& 4^*m83^{\wedge}-1 + 769/663552/(mass(4))^*ln(4)^{\wedge}2^*F^{\wedge}-3^*sinx^*sqrt3^*pi^{\wedge}-4^*m83^{\wedge}-1 + \\
& 61/20736/(mass(4))^*ln(4)^{\wedge}2^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx^*pi^{\wedge}-4^*m83^{\wedge}-1 - 23/20736/(mass(4))^*ln(4)^{\wedge}2^*F^{\wedge}- \\
& 3^*sinx^{\wedge}3^*sqrt3^*pi^{\wedge}-4^*m83^{\wedge}-1 - 317/221184/(mass(5))^*ln(4)^{\wedge}2^*F^{\wedge}-3^*cosx^*pi^{\wedge}- \\
& 4^*m83^{\wedge}-1 + 769/663552/(mass(5))^*ln(4)^{\wedge}2^*F^{\wedge}-3^*sinx^*sqrt3^*pi^{\wedge}-4^*m83^{\wedge}-1 + \\
& 61/20736/(mass(5))^*ln(4)^{\wedge}2^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx^*pi^{\wedge}-4^*m83^{\wedge}-1 - 23/20736/(mass(5))^*ln(4)^{\wedge}2^*F^{\wedge}- \\
& 3^*sinx^{\wedge}3^*sqrt3^*pi^{\wedge}-4^*m83^{\wedge}-1 + 109/221184/(mass(6))^*ln(6)^{\wedge}2^*F^{\wedge}-3^*cosx^*pi^{\wedge}- \\
& 4^*m83^{\wedge}-1 - 731/3317760/(mass(6))^*ln(6)^{\wedge}2^*F^{\wedge}-3^*sinx^*sqrt3^*pi^{\wedge}-4^*m83^{\wedge}-1 + \\
& 61/20736/(mass(6))^*ln(6)^{\wedge}2^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx^*pi^{\wedge}-4^*m83^{\wedge}-1 + 23/20736/(mass(6))^*ln(6)^{\wedge}2^*F^{\wedge}- \\
& 3^*sinx^{\wedge}3^*sqrt3^*pi^{\wedge}-4^*m83^{\wedge}-1 + 157/221184/(mass(7))^*ln(6)^{\wedge}2^*F^{\wedge}-3^*cosx^*pi^{\wedge}- \\
& 4^*m83^{\wedge}-1 - 1451/3317760/(mass(7))^*ln(6)^{\wedge}2^*F^{\wedge}-3^*sinx^*sqrt3^*pi^{\wedge}-4^*m83^{\wedge}-1 + \\
& 61/20736/(mass(7))^*ln(6)^{\wedge}2^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx^*pi^{\wedge}-4^*m83^{\wedge}-1 + 23/20736/(mass(7))^*ln(6)^{\wedge}2^*F^{\wedge}-
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -1 + 1/17280 / (\text{mass}(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -1 + 169/207360 / (\text{mass}(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -1 + \\
& 329/58320 / (\text{mass}(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -1 - 2/729 / (\text{mass}(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -1) \\
& + \text{mud}^{\wedge} 3^* \text{mkp} 2^2 * (- 1/5184 / (\text{mass}(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 1/10368 / (\text{mass}(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 5/2916 / (\text{mass}(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 1/3456 / (\text{mass}(4))^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 1/10368 / (\text{mass}(4))^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 5/3456 / (\text{mass}(6))^* \ln(6)^{\wedge} 2^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 5/3456 / (\text{mass}(6))^* \ln(6)^{\wedge} 2^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 5/5184 / (\text{mass}(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 17/31104 / (\text{mass}(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 5/2916 / (\text{mass}(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2) \\
& + \text{mud}^{\wedge} 3^* \text{mpp} 2 * (+ 5/3456^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 5/20736^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* m83^{\wedge} -2 - 1024/9^* F^{\wedge} -3^* \cos x^* L8r^{\wedge} 2^* m83^{\wedge} -2 - 2560/9^* F^{\wedge} -3^* \cos x^* L7r^{\wedge} * L8r^{\wedge} * m83^{\wedge} -2 + 512/3^* F^{\wedge} -3^* \cos x^* L7r^{\wedge} 2^* m83^{\wedge} -2 - 512/9^* F^{\wedge} -3^* \cos x^* L6r^{\wedge} * L8r^{\wedge} * m83^{\wedge} -2 - 512/3^* F^{\wedge} -3^* \cos x^* L6r^{\wedge} * L7r^{\wedge} * m83^{\wedge} -2 - 1280/27^* F^{\wedge} -3^* \cos x^* L5r^{\wedge} * L8r^{\wedge} * m83^{\wedge} -2 - 1280/9^* F^{\wedge} -3^* \cos x^* L5r^{\wedge} * L7r^{\wedge} * m83^{\wedge} -2 + 256/9^* F^{\wedge} -3^* \cos x^* L4r^{\wedge} * L8r^{\wedge} * m83^{\wedge} -2 + 256/3^* F^{\wedge} -3^* \cos x^* L4r^{\wedge} * L7r^{\wedge} * m83^{\wedge} -2 + 5/10368^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 5/62208^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* m83^{\wedge} -2 + 5120/27^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* L8r^{\wedge} 2^* m83^{\wedge} -2 + 11264/9^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* L7r^{\wedge} * L8r^{\wedge} * m83^{\wedge} -2 + 2048^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* L7r^{\wedge} 2^* m83^{\wedge} -2 - 1024/9^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* L6r^{\wedge} * L8r^{\wedge} * m83^{\wedge} -2 - 1024/3^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* L6r^{\wedge} * L7r^{\wedge} * m83^{\wedge} -2 + 512/27^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* L5r^{\wedge} * L8r^{\wedge} * m83^{\wedge} -2 + 512/9^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* L5r^{\wedge} * L7r^{\wedge} * m83^{\wedge} -2 - 512/9^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* L4r^{\wedge} * L8r^{\wedge} * m83^{\wedge} -2 - 512/3^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* L4r^{\wedge} * L7r^{\wedge} * m83^{\wedge} -2 - 45056/27^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* L8r^{\wedge} 2^* m83^{\wedge} -2 - 266240/27^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* L7r^{\wedge} * L8r^{\wedge} * m83^{\wedge} -2 - 131072/9^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* L7r^{\wedge} 2^* m83^{\wedge} -2 - 4096/27^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* L6r^{\wedge} * L7r^{\wedge} * m83^{\wedge} -2 + 2048/81^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* L5r^{\wedge} * L8r^{\wedge} * m83^{\wedge} -2 + 2048/27^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* L5r^{\wedge} * L7r^{\wedge} * m83^{\wedge} -2 + 2048/27^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* L4r^{\wedge} * L8r^{\wedge} * m83^{\wedge} -2 + 2048/9^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* L4r^{\wedge} * L7r^{\wedge} * m83^{\wedge} -2 + 65536/27^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* L8r^{\wedge} 2^* m83^{\wedge} -2 + 131072/9^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* L7r^{\wedge} * L8r^{\wedge} * m83^{\wedge} -2 + 65536/3^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* L7r^{\wedge} 2^* m83^{\wedge} -2 + 8/9^* C^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L8r^{\wedge} * m83^{\wedge} -2 + 8/3^* C^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L7r^{\wedge} * m83^{\wedge} -2 + 8/27^* C^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L8r^{\wedge} * m83^{\wedge} -2 + 8/9^* C^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L7r^{\wedge} * m83^{\wedge} -2 - 1/1728^* C^* \ln(1)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 1/5184^* C^* \ln(1)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 1/2592^* C^* \ln(3)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 1/1944^* C^* \ln(3)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 1/864^* C^* \ln(6)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 1/2592^* C^* \ln(6)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 1/1296^* C^* \ln(8)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 1/2592^* C^* \ln(8)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 1/1944^* C^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 4/27^* \ln(1)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L8r^{\wedge} * m83^{\wedge} -2 - 2/3^* \ln(1)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L7r^{\wedge} * m83^{\wedge} -2 + 1/9^* \ln(1)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L6r^{\wedge} * m83^{\wedge} -2 + 1/18^* \ln(1)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L4r^{\wedge} * m83^{\wedge} -2 + 13/81^* \ln(1)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L8r^{\wedge} * m83^{\wedge} -2 + 10/27^* \ln(1)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L7r^{\wedge} * m83^{\wedge} -2 + 1/54^* \ln(1)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L5r^{\wedge} * m83^{\wedge} -2 - 1/27^* \ln(1)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L4r^{\wedge} * m83^{\wedge} -2 + 32/81^* \ln(1)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L8r^{\wedge} * m83^{\wedge} -2 + 32/27^* \ln(1)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L7r^{\wedge} * m83^{\wedge} -2 + 1/5184^* \ln(1)^* \ln(3)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 5/41472^* \ln(1)^* \ln(3)^* F^{\wedge} -
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 1/15552 * \ln(1) * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 1/1944 * \ln(1) * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 1/5184 * \ln(1) * \ln(4) * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 1/2592 * \ln(1) * \ln(4) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 1/2592 * \ln(1) * \ln(4) * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} + 1/2304 * \ln(1) * \ln(6) * F^{\wedge-} \\
& 3^* \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - 1/2592 * \ln(1) * \ln(6) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - \\
& 1/2592 * \ln(1) * \ln(6) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 1/2592 * \ln(1) * \ln(6) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 1/20736 * \ln(1) * \ln(8) * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - \\
& 11/124416 * \ln(1) * \ln(8) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 7/15552 * \ln(1) * \ln(8) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 1/1944 * \ln(1) * \ln(8) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 11/162 * \ln(3) * F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-2} - 7/18 * \ln(3) * F^{\wedge-} \\
& 3^* \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-2} + 5/162 * \ln(3) * F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L5r^* m83^{\wedge-2} - \\
& 1/27 * \ln(3) * F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L4r^* m83^{\wedge-2} - 19/81 * \ln(3) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-} \\
& 2^* L8r^* m83^{\wedge-2} - 37/54 * \ln(3) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L7r^* m83^{\wedge-2} + 1/18 * \ln(3) * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L6r^* m83^{\wedge-2} - 7/324 * \ln(3) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L5r^* m83^{\wedge-} \\
& 2 + 5/108 * \ln(3) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L4r^* m83^{\wedge-2} + 44/27 * \ln(3) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-2} + 400/81 * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 2^* L7r^* m83^{\wedge-2} + 4/81 * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L6r^* m83^{\wedge-2} - 2/81 * \ln(3) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L5r^* m83^{\wedge-2} - 10/81 * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 2^* L4r^* m83^{\wedge-2} + 344/243 * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-2} - \\
& + 352/81 * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-2} - 8/81 * \ln(3) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-2} * L6r^* m83^{\wedge-2} + 4/243 * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-} \\
& 2^* L5r^* m83^{\wedge-2} + 4/81 * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-2} * L4r^* m83^{\wedge-2} - 320/81 * \ln(3) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-2} - 320/27 * \ln(3) * F^{\wedge-3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-} \\
& 2^* L7r^* m83^{\wedge-2} + 1/13824 * \ln(3)^{\wedge 2} * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 5/124416 * \ln(3)^{\wedge 2} * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 43/93312 * \ln(3)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-} \\
& 2 - 19/15552 * \ln(3)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 5/5832 * \ln(3)^{\wedge 2} * F^{\wedge-} \\
& 3^* \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 1/972 * \ln(3)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 8} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-} \\
& 2 + 7/41472 * \ln(3) * \ln(4) * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 71/186624 * \ln(3) * \ln(4) * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 23/15552 * \ln(3) * \ln(4) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 43/31104 * \ln(3) * \ln(4) * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 19/15552 * \ln(3) * \ln(4) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 31/46656 * \ln(3) * \ln(4) * F^{\wedge-3} * \sin x^{\wedge 5} * \sqrt{3}^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} + 5/1296 * \ln(3) * \ln(4) * F^{\wedge-3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 1/1296 * \ln(3) * \ln(4) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 7} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 5/82944 * \ln(3) * \ln(6) * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - \\
& + 121/746496 * \ln(3) * \ln(6) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 23/15552 * \ln(3) * \ln(6) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 43/31104 * \ln(3) * \ln(6) * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 19/15552 * \ln(3) * \ln(6) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - 31/46656 * \ln(3) * \ln(6) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 5} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} + 5/1296 * \ln(3) * \ln(6) * F^{\wedge-3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 1/1296 * \ln(3) * \ln(6) * F^{\wedge-3} * \sin x^{\wedge 7} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 7/124416 * \ln(3) * \ln(8) * F^{\wedge-} \\
& 3^* \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 25/124416 * \ln(3) * \ln(8) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - \\
& - 19/15552 * \ln(3) * \ln(8) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 5/7776 * \ln(3) * \ln(8) * F^{\wedge-} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} + 5/1458 * \ln(3) * \ln(8) * F^{\wedge-3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-} \\
& 4^* m83^{\wedge-2} - 1/486 * \ln(3) * \ln(8) * F^{\wedge-3} * \sin x^{\wedge 8} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - 13/54 * \ln(4) * F^{\wedge-} \\
& 3^* \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-2} - 2/3 * \ln(4) * F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-2} - \\
& 1/18 * \ln(4) * F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L6r^* m83^{\wedge-2} + 1/108 * \ln(4) * F^{\wedge-3} * \cos x^* \pi^{\wedge-} \\
& 2^* L5r^* m83^{\wedge-2} + 1/36 * \ln(4) * F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L4r^* m83^{\wedge-2} - 229/486 * \ln(4) * F^{\wedge-} \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L8r^* m83^{\wedge-2} - 122/81 * \ln(4) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L7r^* m83^{\wedge-}
\end{aligned}$$

$$\begin{aligned}
& 2 + 5/54*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} - 5/324*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} - 5/108*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} \\
& + 236/81*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} + 232/27*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} + 4/27*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2} \\
& *L6r*m83^{-2} - 2/81*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} - 2/27*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} + 524/243*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2} \\
& *L8r*m83^{-2} + 536/81*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 4/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} + 2/81*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2} \\
& *L5r*m83^{-2} + 2/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} - 128/27*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} - 128/9*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2} \\
& *L7r*m83^{-2} - 64/27*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 64/9*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 5/13824*\ln(4)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} \\
& + 19/124416*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/2592*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 1/486*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 1/432*\ln(4)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 1/432*\ln(4)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/13824*\ln(4)*\ln(6)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} \\
& + 25/41472*\ln(4)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/864*\ln(4)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 1/216*\ln(4)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4} \\
& *m83^{-2} + 7/41472*\ln(4)*\ln(8)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} + 1/5184*\ln(4)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 37/15552*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& *m83^{-2} - 127/93312*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 115/15552*\ln(4)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 113/46656*\ln(4)*\ln(8)*F^{-3} \\
& *sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/1296*\ln(4)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4} \\
& *m83^{-2} - 1/1296*\ln(4)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/2*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L8r*m83^{-2} + 8/9*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L7r*m83^{-2} + \\
& 1/18*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L6r*m83^{-2} + 1/12*\ln(6)*F^{-3}*\cos x*\pi^{-2} \\
& *L5r*m83^{-2} - 5/36*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L4r*m83^{-2} - 245/486*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 124/81*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} \\
& + 7/54*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} - 13/324*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} + 7/36*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} \\
& + 236/81*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} + 232/27*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} + 4/27*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2} \\
& *L6r*m83^{-2} - 2/81*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} - 2/27*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} - 524/243*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2} \\
& *L8r*m83^{-2} - 536/81*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 4/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} - 2/81*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2} \\
& *L5r*m83^{-2} - 2/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} - 128/27*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} - 128/9*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2} \\
& *L7r*m83^{-2} + 64/27*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 64/9*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 1/4608*\ln(6)^2*F^{-3} \\
& *cos x*\pi^{-4}*m83^{-2} + 19/62208*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/2592*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 1/486*\ln(6)^2*F^{-3} \\
& *sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/432*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 1/432*\ln(6)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 17/27648*\ln(6)*\ln(8)*F^{-3} \\
& *cos x*\pi^{-4}*m83^{-2} + 109/248832*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 37/15552*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 127/93312*\ln(6)*\ln(8)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 115/15552^* \ln(6)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 - 113/46656^* \ln(6)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 5^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 - \\
& 5/1296^* \ln(6)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 6^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 1/1296^* \ln(6)^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 7^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 7/18^* \ln(8)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 \\
& + 5/6^* \ln(8)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 + 2/27^* \ln(8)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} - \\
& 2^* L6r^* m83^{\wedge} -2 + 5/162^* \ln(8)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L5r^* m83^{\wedge} -2 - 17/81^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 - 43/54^* \ln(8)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} - \\
& 2 + 5/54^* \ln(8)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L6r^* m83^{\wedge} -2 - 1/324^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L5r^* m83^{\wedge} -2 + 1/36^* \ln(8)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L4r^* m83^{\wedge} - \\
& 2 + 676/243^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 + 656/81^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 + 4/27^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 2^* L6r^* m83^{\wedge} -2 - 2/243^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L5r^* m83^{\wedge} -2 + 2/81^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L4r^* m83^{\wedge} -2 - 1880/243^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} - \\
& 2^* L8r^* m83^{\wedge} -2 - 1888/81^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 + \\
& 8/81^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -2^* L6r^* m83^{\wedge} -2 - 4/243^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} - \\
& 2^* L5r^* m83^{\wedge} -2 - 4/81^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -2^* L4r^* m83^{\wedge} -2 + 320/81^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 6^* \cos x^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 + 320/27^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 6^* \cos x^* \pi^{\wedge} - \\
& 2^* L7r^* m83^{\wedge} -2 - 5/20736^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 1/62208^* \ln(8)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 115/93312^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 + 73/15552^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 25/5832^* \ln(8)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 6^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 1/972^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 8^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 - 79/207360/(mass(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -1 + \\
& 133/311040/(mass(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -1 - 211/233280/(mass(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -1 + 1/2916/(mass(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -1 + 47/73728/(mass(4))^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -1 - 23/24576/(mass(4))^* \ln(4)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -1 - 61/82944/(mass(4))^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -1 + 11/9216/(mass(4))^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -1 + \\
& 47/73728/(mass(5))^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -1 - 23/24576/(mass(5))^* \ln(4)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -1 - 61/82944/(mass(5))^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -1 + 11/9216/(mass(5))^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -1 - \\
& 299/221184/(mass(6))^* \ln(6)^{\wedge} 2^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -1 + 607/1105920/(mass(6))^* \ln(6)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -1 - 61/82944/(mass(6))^* \ln(6)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -1 - 11/9216/(mass(6))^* \ln(6)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -1 - \\
& 347/221184/(mass(7))^* \ln(6)^{\wedge} 2^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -1 + 847/1105920/(mass(7))^* \ln(6)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -1 - 61/82944/(mass(7))^* \ln(6)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -1 - 11/9216/(mass(7))^* \ln(6)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -1 - \\
& 29/23040/(mass(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -1 - 7/11520/(mass(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -1 - 209/233280/(mass(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -1 - 1/2916/(mass(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -1) \\
& + \text{mud}^{\wedge} 3^* \text{mpp} 2^* \text{mkp} 2 * (- 1/5184/(mass(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 - 1/10368/(mass(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 - \\
& 1/2916/(mass(3))^* \ln(3)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 1/576/(mass(6))^* \ln(6)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 1/5184/(mass(6))^* \ln(6)^{\wedge} 2^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 + 7/5184/(mass(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 7/31104/(mass(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 1/2916/(mass(8))^* \ln(8)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -
\end{aligned}$$

$$\begin{aligned}
& 4^*m83^{-2}) \\
& + \text{mud}^3 * \text{mpp}2^2 * (+ 1/3456 / (\text{mass}(1))^* \ln(1)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-2} + \\
& 1/10368 / (\text{mass}(1))^* \ln(1)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/20736 / (\text{mass}(3))^* \ln(3)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-2} \\
& + 7/20736 / (\text{mass}(3))^* \ln(3)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} - 5/23328 / (\text{mass}(3))^* \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - \\
& 1/3456 / (\text{mass}(6))^* \ln(6)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-2} + 13/10368 / (\text{mass}(6))^* \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& + 1/20736 / (\text{mass}(8))^* \ln(8)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-2} + 11/62208 / (\text{mass}(8))^* \ln(8)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} + \\
& 5/23328 / (\text{mass}(8))^* \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2}) \\
& + \text{mud}^4 * (+ 256/9 * F^{-3} * \cos x * L8r^2 * m83^{-2} + 1280/9 * F^{-3} * \cos x * L7r * L8r * m83^{-2} \\
& + 512/3 * F^{-3} * \cos x * L7r^2 * m83^{-2} + 256/9 * F^{-3} * \cos x * L6r * L8r * m83^{-2} \\
& + 256/3 * F^{-3} * \cos x * L6r * L7r * m83^{-2} - 128/27 * F^{-3} * \cos x * L5r * L8r * m83^{-2} \\
& - 128/9 * F^{-3} * \cos x * L5r * L7r * m83^{-2} - 128/9 * F^{-3} * \cos x * L4r * L8r * m83^{-2} - \\
& 128/3 * F^{-3} * \cos x * L4r * L7r * m83^{-2} + 256/27 * F^{-3} * \sin x * \sqrt{3} * L8r^2 * m83^{-2} + \\
& 1792/27 * F^{-3} * \sin x * \sqrt{3} * L7r * L8r * m83^{-2} + 1024/9 * F^{-3} * \sin x * \sqrt{3} * L7r^2 * m83^{-2} \\
& - 256/27 * F^{-3} * \sin x * \sqrt{3} * L6r * L8r * m83^{-2} - 256/9 * F^{-3} * \sin x * \sqrt{3} * L6r * L7r * m83^{-2} \\
& + 128/81 * F^{-3} * \sin x * \sqrt{3} * L5r * L8r * m83^{-2} + 128/27 * F^{-3} * \sin x * \sqrt{3} * L5r * L7r * m83^{-2} \\
& + 128/27 * F^{-3} * \sin x * \sqrt{3} * L4r * L8r * m83^{-2} + 128/9 * F^{-3} * \sin x * \sqrt{3} * L4r * L7r * m83^{-2} \\
& - 2048/9 * F^{-3} * \sin x^2 * \cos x * L8r^2 * m83^{-2} - 34816/27 * F^{-3} * \sin x^2 * \cos x * L7r * L8r * m83^{-2} \\
& - 16384/9 * F^{-3} * \sin x^2 * \cos x * L7r^2 * m83^{-2} - 2048/27 * F^{-3} * \sin x^2 * \cos x * L6r * L8r * m83^{-2} \\
& - 2048/9 * F^{-3} * \sin x^2 * \cos x * L6r * L7r * m83^{-2} + 1024/81 * F^{-3} * \sin x^2 * \cos x * L5r * L8r * m83^{-2} \\
& + 1024/27 * F^{-3} * \sin x^2 * \cos x * L5r * L7r * m83^{-2} + 1024/27 * F^{-3} * \sin x^2 * \cos x * L4r * L8r * m83^{-2} \\
& + 1024/9 * F^{-3} * \sin x^2 * \cos x * L4r * L7r * m83^{-2} + 8192/27 * F^{-3} * \sin x^4 * \cos x * L8r^2 * m83^{-2} \\
& + 16384/9 * F^{-3} * \sin x^4 * \cos x * L7r * L8r * m83^{-2} + 8192/3 * F^{-3} * \sin x^4 * \cos x * L7r^2 * m83^{-2} \\
& - 1/10368 * C * \ln(3) * F^{-3} * \cos x * \pi^{-4} * m83^{-2} + 1/31104 * C * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& + 1/10368 * C * \ln(8) * F^{-3} * \cos x * \pi^{-4} * m83^{-2} - 1/31104 * C * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& - 1/3888 * C * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& - 11/162 * \ln(3) * F^{-3} * \cos x * \pi^{-2} * L8r * m83^{-2} - 2/9 * \ln(3) * F^{-3} * \cos x * \pi^{-2} * L7r * m83^{-2} \\
& + 1/324 * \ln(3) * F^{-3} * \cos x * \pi^{-2} * L5r * m83^{-2} + 1/54 * \ln(3) * F^{-3} * \cos x * \pi^{-2} * L4r * m83^{-2} \\
& + 2/243 * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} + 2/81 * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} \\
& + 1/162 * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L6r * m83^{-2} - 1/486 * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L5r * m83^{-2} \\
& - 1/108 * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L4r * m83^{-2} + 4/27 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-2} \\
& + 44/81 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-2} - 4/81 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-2} \\
& - 2/81 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-2} + 136/243 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-2} \\
& + 128/81 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-2} + 8/81 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L6r * m83^{-2} \\
& - 4/243 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L5r * m83^{-2} - 4/81 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L4r * m83^{-2} \\
& - 64/81 * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L8r * m83^{-2} - 64/27 * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L7r * m83^{-2} \\
& + 7/165888 * \ln(3)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-2} - 13/746496 * \ln(3)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& - 5/93312 * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 1/7776 * \ln(3)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} \\
& - 1/2916 * \ln(3)^2 * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} + 1/1944 * \ln(3)^2 * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-2})
\end{aligned}$$

$$\begin{aligned}
& 2 - 1/124416*\ln(3)*\ln(4)*F^{-3*\cos x*\pi^{-4}*m83^{-2}} + 41/373248*\ln(3)*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 11/62208*\ln(3)*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} - 1/62208*\ln(3)*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 7/15552*\ln(3)*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} - 37/46656*\ln(3)*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& + 1/1296*\ln(3)*\ln(4)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} + 1/1296*\ln(3)*\ln(4)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& + 1/7776*\ln(3)*\ln(6)*F^{-3*\cos x*\pi^{-4}*m83^{-2}} - 41/373248*\ln(3)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 11/62208*\ln(3)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 1/62208*\ln(3)*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 7/15552*\ln(3)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} + 37/46656*\ln(3)*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& + 1/1296*\ln(3)*\ln(6)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} - 1/1296*\ln(3)*\ln(6)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& + 1/248832*\ln(3)*\ln(8)*F^{-3*\cos x*\pi^{-4}*m83^{-2}} + 1/46656*\ln(3)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 1/15552*\ln(3)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} - 1/1944*\ln(3)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} \\
& + 5/2916*\ln(3)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} - 1/972*\ln(3)*\ln(8)*F^{-3*\sin x^8*\cos x*\pi^{-4}*m83^{-2}} \\
& - 1/81*\ln(4)*F^{-3*\cos x*\pi^{-2}*L8r*m83^{-2}} - 1/27*\ln(4)*F^{-3*\cos x*\pi^{-2}*L7r*m83^{-2}} - 40/243*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} \\
& - 37/81*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2}} + 1/162*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2}} \\
& + 1/54*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2}} + 10/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2}} \\
& + 28/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2}} + 2/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2}} \\
& - 1/81*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2}} - 1/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2}} \\
& + 154/243*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} + 148/81*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} \\
& + 2/27*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2}} - 1/81*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2}} \\
& - 1/27*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2}} - 16/27*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2}} \\
& - 16/9*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2}} - 16/9*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} \\
& - 16/9*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} + 1/20736*\ln(4)^2*F^{-3*\cos x*\pi^{-4}*m83^{-2}} \\
& + 1/5184*\ln(4)^2*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} + 1/5184*\ln(4)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} \\
& - 17/31104*\ln(4)^2*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} + 1/1728*\ln(4)^2*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 1/13824*\ln(4)*\ln(6)*F^{-3*\cos x*\pi^{-4}*m83^{-2}} + 7/41472*\ln(4)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 5/5184*\ln(4)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 1/432*\ln(4)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} \\
& + 1/41472*\ln(4)*\ln(8)*F^{-3*\cos x*\pi^{-4}*m83^{-2}} + 5/41472*\ln(4)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 7/20736*\ln(4)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} - 157/186624*\ln(4)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& + 19/15552*\ln(4)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} + 73/46656*\ln(4)*\ln(8)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 1/1296*\ln(4)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} - 1/1296*\ln(4)*\ln(8)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 7/162*\ln(6)*F^{-3*\cos x*\pi^{-2}*L8r*m83^{-2}} - 2/27*\ln(6)*F^{-3*\cos x*\pi^{-2}*L7r*m83^{-2}} - 1/18*\ln(6)*F^{-3*\cos x*\pi^{-2}*L6r*m83^{-2}} \\
& + 1/108*\ln(6)*F^{-3*\cos x*\pi^{-2}*L5r*m83^{-2}} + 1/36*\ln(6)*F^{-3*\cos x*\pi^{-2}*L4r*m83^{-2}} + 53/486*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} \\
& + 22/81*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} + 1/18*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2}} - 1/108*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2}} \\
& - 1/108*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2}}
\end{aligned}$$

$$\begin{aligned}
& 3^{\text{sinx} \sqrt{3} \pi^{-2} L5r^* m83^{-2}} - 1/36 \ln(6) F^{-3 \text{sinx} \sqrt{3} \pi^{-2} L4r^* m83^{-2}} \\
& + 10/27 \ln(6) F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L8r^* m83^{-2}} + 28/27 \ln(6) F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L7r^* m83^{-2}} \\
& + 2/27 \ln(6) F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L6r^* m83^{-2}} - 1/81 \ln(6) F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L5r^* m83^{-2}} - 1/27 \ln(6) F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L4r^* m83^{-2}} \\
& - 154/243 \ln(6) F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-2} L8r^* m83^{-2}} - 148/81 \ln(6) F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-2} L7r^* m83^{-2}} \\
& - 2/27 \ln(6) F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-2} L6r^* m83^{-2}} + 1/81 \ln(6) F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-2} L5r^* m83^{-2}} + 1/27 \ln(6) F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-2} L4r^* m83^{-2}} \\
& - 16/27 \ln(6) F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L8r^* m83^{-2}} - 16/9 \ln(6) F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L7r^* m83^{-2}} \\
& + 16/27 \ln(6) F^{-3 \text{sinx}^5 \sqrt{3} \pi^{-2} L8r^* m83^{-2}} + 16/9 \ln(6) F^{-3 \text{sinx}^5 \sqrt{3} \pi^{-2} L7r^* m83^{-2}} + 1/41472 \ln(6)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-2}} \\
& - 17/124416 \ln(6)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-2}} + 1/5184 \ln(6)^2 F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-2}} + 17/31104 \ln(6)^2 F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-4} m83^{-2}} \\
& - 1/1728 \ln(6)^2 F^{-3 \text{sinx}^4 \text{cosx} \pi^{-4} m83^{-2}} - 1/1728 \ln(6)^2 F^{-3 \text{sinx}^5 \sqrt{3} \pi^{-4} m83^{-2}} - 1/20736 \ln(6) \ln(8) F^{-3 \text{cosx} \pi^{-4} m83^{-2}} \\
& - 7/124416 \ln(6) \ln(8) F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-2}} - 1/20736 \ln(6) \ln(8) F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-2}} + 157/186624 \ln(6) \ln(8) F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-4} m83^{-2}} \\
& + 19/15552 \ln(6) \ln(8) F^{-3 \text{sinx}^4 \text{cosx} \pi^{-4} m83^{-2}} - 73/46656 \ln(6) \ln(8) F^{-3 \text{sinx}^5 \sqrt{3} \pi^{-4} m83^{-2}} - 1/1296 \ln(6) \ln(8) F^{-3 \text{sinx}^6 \text{cosx} \pi^{-4} m83^{-2}} \\
& + 1/1296 \ln(6) \ln(8) F^{-3 \text{sinx}^7 \sqrt{3} \pi^{-4} m83^{-2}} - 1/54 \ln(8) F^{-3 \text{cosx} \pi^{-2} L8r^* m83^{-2}} - 1/27 \ln(8) F^{-3 \text{sinx} \sqrt{3} \pi^{-2} L6r^* m83^{-2}} \\
& + 1/324 \ln(8) F^{-3 \text{sinx} \sqrt{3} \pi^{-2} L8r^* m83^{-2}} - 8/81 \ln(8) F^{-3 \text{sinx} \sqrt{3} \pi^{-2} L7r^* m83^{-2}} + 1/162 \ln(8) F^{-3 \text{sinx} \sqrt{3} \pi^{-2} L6r^* m83^{-2}} \\
& + 1/324 \ln(8) F^{-3 \text{sinx} \sqrt{3} \pi^{-2} L4r^* m83^{-2}} + 116/243 \ln(8) F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L8r^* m83^{-2}} + 100/81 \ln(8) F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L7r^* m83^{-2}} \\
& + 4/27 \ln(8) F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L6r^* m83^{-2}} - 4/243 \ln(8) F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L5r^* m83^{-2}} - 2/81 \ln(8) F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L4r^* m83^{-2}} \\
& - 328/243 \ln(8) F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L8r^* m83^{-2}} - 320/81 \ln(8) F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L7r^* m83^{-2}} - 8/81 \ln(8) F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L6r^* m83^{-2}} \\
& + 4/243 \ln(8) F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L5r^* m83^{-2}} + 4/81 \ln(8) F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L4r^* m83^{-2}} + 64/81 \ln(8) F^{-3 \text{sinx}^6 \text{cosx} \pi^{-2} L8r^* m83^{-2}} \\
& + 64/27 \ln(8) F^{-3 \text{sinx}^6 \text{cosx} \pi^{-2} L7r^* m83^{-2}} + 1/55296 \ln(8)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-2}} + 5/746496 \ln(8)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-2}} \\
& - 29/93312 \ln(8)^2 F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-2}} + 1/864 \ln(8)^2 F^{-3 \text{sinx}^4 \text{cosx} \pi^{-4} m83^{-2}} - 1/729 \ln(8)^2 F^{-3 \text{sinx}^6 \text{cosx} \pi^{-4} m83^{-2}} \\
& + 1/1944 \ln(8)^2 F^{-3 \text{sinx}^8 \text{cosx} \pi^{-4} m83^{-2}} + 19/138240 (\text{mass}(3)) \ln(3)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-1}} - 251/3732480 (\text{mass}(3)) \ln(3)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-1}} \\
& - 91/466560 (\text{mass}(3)) \ln(3)^2 F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} - 1/2916 (\text{mass}(3)) \ln(3)^2 F^{-3 \text{sinx}^4 \text{cosx} \pi^{-4} m83^{-1}} + 7/36864 (\text{mass}(4)) \ln(4)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-1}} \\
& - 11/82944 (\text{mass}(4)) \ln(4)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-1}} - 61/165888 (\text{mass}(4)) \ln(4)^2 F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} + 23/165888 (\text{mass}(4)) \ln(4)^2 F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-4} m83^{-1}} \\
& + 7/36864 (\text{mass}(5)) \ln(4)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-1}} - 11/82944 (\text{mass}(5)) \ln(4)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-1}} - 61/165888 (\text{mass}(5)) \ln(4)^2 F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} \\
& + 23/165888 (\text{mass}(5)) \ln(4)^2 F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-4} m83^{-1}} +
\end{aligned}$$

$$\begin{aligned}
& 19/221184/(\text{mass}(6))^{\ln(6)^2 F^{-3} \cos x \pi^{-4} m83^{-1}} + 1/24576/(\text{mass}(6))^{\ln(6)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1}} - 61/165888/(\text{mass}(6))^{\ln(6)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1}} - 23/165888/(\text{mass}(6))^{\ln(6)^2 F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-1}} + \\
& 19/221184/(\text{mass}(7))^{\ln(6)^2 F^{-3} \cos x \pi^{-4} m83^{-1}} + 1/24576/(\text{mass}(7))^{\ln(6)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1}} - 61/165888/(\text{mass}(7))^{\ln(6)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1}} - 23/165888/(\text{mass}(7))^{\ln(6)^2 F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-1}} + \\
& 83/414720/(\text{mass}(8))^{\ln(8)^2 F^{-3} \cos x \pi^{-4} m83^{-1}} - 169/3732480/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1}} - 329/466560/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1}} + 1/2916/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-1}}) \\
& + \text{mud}^4 \text{mkp2} * (+ 1/10368/(\text{mass}(3))^{\ln(3)^2 F^{-3} \cos x \pi^{-4} m83^{-2}} - 7/93312/(\text{mass}(3))^{\ln(3)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2}} - 5/11664/(\text{mass}(3))^{\ln(3)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2}} + 1/1728/(\text{mass}(6))^{\ln(6)^2 F^{-3} \cos x \pi^{-4} m83^{-2}} + 1/5184/(\text{mass}(6))^{\ln(6)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2}} + 1/3456/(\text{mass}(8))^{\ln(8)^2 F^{-3} \cos x \pi^{-4} m83^{-2}} + 19/93312/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2}} + 5/11664/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2}}) \\
& + \text{mud}^4 \text{mpp2} * (+ 1/20736/(\text{mass}(3))^{\ln(3)^2 F^{-3} \cos x \pi^{-4} m83^{-2}} + 5/186624/(\text{mass}(3))^{\ln(3)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2}} + 1/23328/(\text{mass}(3))^{\ln(3)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2}} - 1/1728/(\text{mass}(6))^{\ln(6)^2 F^{-3} \cos x \pi^{-4} m83^{-2}} - 1/5184/(\text{mass}(6))^{\ln(6)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2}} - 1/2304/(\text{mass}(8))^{\ln(8)^2 F^{-3} \cos x \pi^{-4} m83^{-2}} - 29/186624/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2}} - 1/23328/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2}}) \\
& + \text{mud}^5 * (- 1/62208/(\text{mass}(3))^{\ln(3)^2 F^{-3} \cos x \pi^{-4} m83^{-2}} + 1/186624/(\text{mass}(3))^{\ln(3)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2}} + 1/23328/(\text{mass}(3))^{\ln(3)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2}} + 1/62208/(\text{mass}(8))^{\ln(8)^2 F^{-3} \cos x \pi^{-4} m83^{-2}} - 1/186624/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2}} - 1/23328/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2}});
\end{aligned}$$

Charged kaon: Fpi644 =

$$\begin{aligned}
& + \text{mkp2} * (+ 1/8 \text{Hb}(1,1,4, \text{qext.qext}) F^{-3} - 1/4 \text{Hb}(1,2,5, \text{qext.qext}) F^{-3} + 1/2 \text{Hb}(1,3,6, \text{plext.plext}) F^{-3} - 4/9 \text{Hb}(1,3,6, \text{plext.plext}) F^{-3} \sin x \cos x \sqrt{3} - 4/3 \text{Hb}(1,3,6, \text{plext.plext}) F^{-3} \sin x^2 - 1/4 \text{Hb}(1,3,6, \text{qext.qext}) F^{-3} + 2/9 \text{Hb}(1,3,6, \text{qext.qext}) F^{-3} \sin x \cos x \sqrt{3} + 2/3 \text{Hb}(1,3,6, \text{qext.qext}) F^{-3} \sin x^2 + 1/6 \text{Hb}(1,6,8, \text{plext.plext}) F^{-3} - 8/9 \text{Hb}(1,6,8, \text{plext.plext}) F^{-3} \sin x \cos x \sqrt{3} - 2/3 \text{Hb}(1,6,8, \text{plext.plext}) F^{-3} \sin x^2 - 1/12 \text{Hb}(1,6,8, \text{qext.qext}) F^{-3} + 4/9 \text{Hb}(1,6,8, \text{qext.qext}) F^{-3} \sin x \cos x \sqrt{3} + 1/3 \text{Hb}(1,6,8, \text{qext.qext}) F^{-3} \sin x^2 + 1/8 \text{Hb}(2,2,4, \text{qext.qext}) F^{-3} - 1/4 \text{Hb}(2,3,7, \text{qext.qext}) F^{-3} + 2/9 \text{Hb}(2,3,7, \text{qext.qext}) F^{-3} \sin x \cos x \sqrt{3} + 2/3 \text{Hb}(2,3,7, \text{qext.qext}) F^{-3} \sin x^2 - 1/12 \text{Hb}(2,7,8, \text{qext.qext}) F^{-3} + 4/9 \text{Hb}(2,7,8, \text{qext.qext}) F^{-3} \sin x \cos x \sqrt{3} + 1/3 \text{Hb}(2,7,8, \text{qext.qext}) F^{-3} \sin x^2 - 1/12 \text{Hb}(3,1,6, \text{plext.plext}) F^{-3} \sin x \cos x \sqrt{3} + 1/12 \text{Hb}(3,1,6, \text{qext.qext}) F^{-3} \sin x \cos x \sqrt{3} + 1/12 \text{Hb}(3,2,7, \text{qext.qext}) F^{-3} \sin x \cos x \sqrt{3} - 1/8 \text{Hb}(3,3,4, \text{plext.plext}) F^{-3} - 19/27 \text{Hb}(3,3,4, \text{plext.plext}) F^{-3} \sin x \cos x \sqrt{3} - 16/9 \text{Hb}(3,3,4, \text{plext.plext}) F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^2 - 10/27*\text{Hb}(3,3,4,\text{plext.plext})*F^{-3}*\sin x^3*\cos x*\sqrt{3} + 10/9*\text{Hb}(3,3,4,\text{plext.plext})*F^{-3}*\sin x^4 + 1/8*\text{Hb}(3,3,4,\text{qext.qext})*F^{-3} + 19/27*\text{Hb}(3,3,4,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} + 16/9*\text{Hb}(3,3,4,\text{qext.qext})*F^{-3}*\sin x^2 + 10/27*\text{Hb}(3,3,4,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^3*\cos x*\sqrt{3} - 10/9*\text{Hb}(3,3,4,\text{qext.qext})*F^{-3}*\sin x^4 + 1/12*\text{Hb}(3,4,8,\text{plext.plext})*F^{-3} \\
& 3 + 2/27*\text{Hb}(3,4,8,\text{plext.plext})*F^{-3}*\sin x*\cos x*\sqrt{3} - 4/9*\text{Hb}(3,4,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2 - 4/27*\text{Hb}(3,4,8,\text{plext.plext})*F^{-3}*\sin x^3*\cos x*\sqrt{3} + 4/9*\text{Hb}(3,4,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^4 - 1/12*\text{Hb}(3,4,8,\text{qext.qext})*F^{-3} - 2/27*\text{Hb}(3,4,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} + 4/9*\text{Hb}(3,4,8,\text{qext.qext})*F^{-3}*\sin x^2 + 4/27*\text{Hb}(3,4,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^3*\cos x*\sqrt{3} - 4/9*\text{Hb}(3,4,8,\text{qext.qext})*F^{-3}*\sin x^4 - 1/32*\text{Hb}(4,1,1,\text{qext.qext})*F^{-3} \\
& 3 - 1/32*\text{Hb}(4,2,2,\text{qext.qext})*F^{-3} + 1/64*\text{Hb}(4,3,3,\text{plext.plext})*F^{-3} + 1/8*\text{Hb}(4,3,3,\text{plext.plext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} + 3/8*\text{Hb}(4,3,3,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2 + 1/12*\text{Hb}(4,3,3,\text{plext.plext})*F^{-3}*\sin x^3*\cos x*\sqrt{3} - 1/4*\text{Hb}(4,3,3,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^4 - 1/32*\text{Hb}(4,3,3,\text{qext.qext})*F^{-3} - 1/4*\text{Hb}(4,3,3,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} - 3/4*\text{Hb}(4,3,3,\text{qext.qext})*F^{-3}*\sin x^2 - 1/6*\text{Hb}(4,3,3,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^3*\cos x*\sqrt{3} + 1/2*\text{Hb}(4,3,3,\text{qext.qext})*F^{-3}*\sin x^4 + 3/32*\text{Hb}(4,3,8,\text{plext.plext})*F^{-3} \\
& 3 + 1/12*\text{Hb}(4,3,8,\text{plext.plext})*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/2*\text{Hb}(4,3,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2 - 1/6*\text{Hb}(4,3,8,\text{plext.plext})*F^{-3}*\sin x^3*\cos x*\sqrt{3} + 1/2*\text{Hb}(4,3,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^4 - 3/16*\text{Hb}(4,3,8,\text{qext.qext})*F^{-3} - 1/6*\text{Hb}(4,3,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} + \text{Hb}(4,3,8,\text{qext.qext})*F^{-3}*\sin x^2 + 1/3*\text{Hb}(4,3,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^3*\cos x*\sqrt{3} - \text{Hb}(4,3,8,\text{qext.qext})*F^{-3}*\sin x^4 - 2/3*\text{Hb}(4,4,5,\text{plext.plext})*F^{-3} \\
& 3 - 5/6*\text{Hb}(4,5,5,\text{qext.qext})*F^{-3} - 7/96*\text{Hb}(4,6,6,\text{qext.qext})*F^{-3} - 1/3*\text{Hb}(4,6,7,\text{plext.plext})*F^{-3} \\
& 3 - 7/96*\text{Hb}(4,7,7,\text{qext.qext})*F^{-3} + 67/192*\text{Hb}(4,8,8,\text{plext.plext})*F^{-3} - 101/216*\text{Hb}(4,8,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2 + 17/108*\text{Hb}(4,8,8,\text{plext.plext})*F^{-3}*\sin x^3*\cos x*\sqrt{3} - 17/36*\text{Hb}(4,8,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^4 - 47/96*\text{Hb}(4,8,8,\text{qext.qext})*F^{-3} + 73/108*\text{Hb}(4,8,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} - 11/36*\text{Hb}(4,8,8,\text{qext.qext})*F^{-3}*\sin x^2 - 13/54*\text{Hb}(4,8,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^3*\cos x*\sqrt{3} + 13/18*\text{Hb}(4,8,8,\text{qext.qext})*F^{-3}*\sin x^4 + 1/16*\text{Hb}(5,1,2,\text{qext.qext})*F^{-3} \\
& 3 + 1/4*\text{Hb}(5,4,4,\text{plext.plext})*F^{-3} + 5/16*\text{Hb}(5,6,7,\text{qext.qext})*F^{-3} \\
& 3 - 1/16*\text{Hb}(6,1,3,\text{plext.plext})*F^{-3} - 1/12*\text{Hb}(6,1,3,\text{plext.plext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} + 1/4*\text{Hb}(6,1,3,\text{plext.plext})*F^{-3}*\sin x^2 + 1/16*\text{Hb}(6,1,3,\text{qext.qext})*F^{-3} \\
& 3 + 1/12*\text{Hb}(6,1,3,\text{qext.qext})*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/4*\text{Hb}(6,1,3,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^2 + 3/16*\text{Hb}(6,1,8,\text{plext.plext})*F^{-3} + 1/12*\text{Hb}(6,1,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} - 1/4*\text{Hb}(6,1,8,\text{plext.plext})*F^{-3}*\sin x^2 - 3/16*\text{Hb}(6,1,8,\text{qext.qext})*F^{-3} \\
& 3 - 1/12*\text{Hb}(6,1,8,\text{qext.qext})*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/4*\text{Hb}(6,1,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^2 - 1/8*\text{Hb}(6,5,7,\text{qext.qext})*F^{-3} + 1/16*\text{Hb}(7,2,3,\text{qext.qext})*F^{-3} + 1/12*\text{Hb}(7,2,3,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} - 1/4*\text{Hb}(7,2,3,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^2 - 3/16*\text{Hb}(7,2,8,\text{qext.qext})*F^{-3} - 1/12*\text{Hb}(7,2,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} + 1/4*\text{Hb}(7,2,8,\text{qext.qext})*F^{-3}*\sin x^2 + 1/8*\text{Hb}(7,4,6,\text{plext.plext})*F^{-3} \\
& 3 - 1/8*\text{Hb}(7,5,6,\text{qext.qext})*F^{-3} + 1/12*\text{Hb}(8,1,6,\text{plext.plext})*F^{-3}*\sin x*\cos x*\sqrt{3} \\
& - 1/12*\text{Hb}(8,1,6,\text{qext.qext})*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/12*\text{Hb}(8,2,7,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} - 3/8*\text{H21b}(1,2,5,\text{qext.qext})*F^{-3} + 3/4*\text{H21b}(1,3,6,\text{plext.plext})*F^{-3} \\
& 3 + 1/2*\text{H21b}(1,3,6,\text{plext.plext})*F^{-3}*\sin x*\cos x*\sqrt{3} - 3/4*\text{H21b}(1,3,6,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2 - 3/8*\text{H21b}(1,3,6,\text{qext.qext})*F^{-3} - 1/4*\text{H21b}(1,3,6,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} + 3/8*\text{H21b}(1,3,6,\text{qext.qext})*F^{-3}*\sin x^2 - 1/2*\text{H21b}(1,6,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} + 3/4*\text{H21b}(1,6,8,\text{plext.plext})*F^{-3}*\sin x^2 + 1/4*\text{H21b}(1,6,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} - 3/8*\text{H21b}(1,6,8,\text{qext.qext})*F^{-3}*\sin x^2 + 3/4*\text{H21b}(2,1,4,\text{plext.plext})*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3 - 3/8 * H21b(2,1,5, \text{qext.qext}) * F^{-3} - 3/8 * H21b(2,3,7, \text{qext.qext}) * F^{-3} - \\
& 1/4 * H21b(2,3,7, \text{qext.qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} + 3/8 * H21b(2,3,7, \text{qext.qext}) * F^{-3} * \sin x^2 + 1/4 * H21b(2,7,8, \text{qext.qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} - 3/8 * H21b(2,7,8, \text{qext.qext}) * F^{-3} * \sin x^2 + 3/4 * H21b(3,1,6, \text{plext.plext}) * F^{-3} - H21b(3,1,6, \text{plext.plext}) * F^{-3} * \sin x * \cos x * \sqrt{3} - 3/4 * H21b(3,1,6, \text{plext.plext}) * F^{-3} * \sin x^2 - 3/8 * H21b(3,1,6, \text{qext.qext}) * F^{-3} + 1/2 * H21b(3,1,6, \text{qext.qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} + 3/8 * H21b(3,1,6, \text{qext.qext}) * F^{-3} * \sin x^2 - 3/8 * H21b(3,2,7, \text{qext.qext}) * F^{-3} + 1/2 * H21b(3,2,7, \text{qext.qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} + 3/8 * H21b(3,2,7, \text{qext.qext}) * F^{-3} * \sin x^2 - 3/32 * H21b(4,1,1, \text{qext.qext}) * F^{-3} - 3/32 * H21b(4,2,2, \text{qext.qext}) * F^{-3} + 3/32 * H21b(4,3,3, \text{plext.plext}) * F^{-3} + 3/4 * H21b(4,3,3, \text{plext.plext}) * F^{-3} * \sin x * \cos x * \sqrt{3} + 9/4 * H21b(4,3,3, \text{plext.plext}) * F^{-3} * \sin x^2 + 1/2 * H21b(4,3,3, \text{plext.plext}) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} - 3/2 * H21b(4,3,3, \text{plext.plext}) * F^{-3} * \sin x^4 - 3/32 * H21b(4,3,3, \text{qext.qext}) * F^{-3} - 3/4 * H21b(4,3,3, \text{qext.qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} - 9/4 * H21b(4,3,3, \text{qext.qext}) * F^{-3} * \sin x^2 - 1/2 * H21b(4,3,3, \text{qext.qext}) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} + 3/2 * H21b(4,3,3, \text{qext.qext}) * F^{-3} * \sin x^4 + 9/16 * H21b(4,3,8, \text{plext.plext}) * F^{-3} + 1/2 * H21b(4,3,8, \text{plext.plext}) * F^{-3} * \sin x * \cos x * \sqrt{3} - 3 * H21b(4,3,8, \text{plext.plext}) * F^{-3} * \sin x^2 - H21b(4,3,8, \text{plext.plext}) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} + 3 * H21b(4,3,8, \text{plext.plext}) * F^{-3} * \sin x^4 - 9/16 * H21b(4,3,8, \text{qext.qext}) * F^{-3} - 1/2 * H21b(4,3,8, \text{qext.qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} + 3 * H21b(4,3,8, \text{qext.qext}) * F^{-3} * \sin x^2 + H21b(4,3,8, \text{qext.qext}) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} - 3 * H21b(4,3,8, \text{qext.qext}) * F^{-3} * \sin x^4 - 3/2 * H21b(4,5,5, \text{qext.qext}) * F^{-3} - 3/32 * H21b(4,6,6, \text{qext.qext}) * F^{-3} - 3/32 * H21b(4,7,7, \text{qext.qext}) * F^{-3} + 27/32 * H21b(4,8,8, \text{plext.plext}) * F^{-3} - 5/4 * H21b(4,8,8, \text{plext.plext}) * F^{-3} * \sin x * \cos x * \sqrt{3} + 3/4 * H21b(4,8,8, \text{plext.plext}) * F^{-3} * \sin x^2 + 1/2 * H21b(4,8,8, \text{plext.plext}) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} - 3/2 * H21b(4,8,8, \text{plext.plext}) * F^{-3} * \sin x^4 - 27/32 * H21b(4,8,8, \text{qext.qext}) * F^{-3} + 5/4 * H21b(4,8,8, \text{qext.qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} - 3/4 * H21b(4,8,8, \text{qext.qext}) * F^{-3} * \sin x^2 - 1/2 * H21b(4,8,8, \text{qext.qext}) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} + 3/2 * H21b(4,8,8, \text{qext.qext}) * F^{-3} * \sin x^4 + 3/16 * H21b(5,1,2, \text{qext.qext}) * F^{-3} + 3/2 * H21b(5,4,4, \text{plext.plext}) * F^{-3} - 3 * H21b(5,6,7, \text{qext.qext}) * F^{-3} - 3/8 * H21b(6,1,3, \text{plext.plext}) * F^{-3} + 1/2 * H21b(6,1,3, \text{plext.plext}) * F^{-3} * \sin x * \cos x * \sqrt{3} + 3/2 * H21b(6,1,3, \text{plext.plext}) * F^{-3} * \sin x^2 + 3/16 * H21b(6,1,3, \text{qext.qext}) * F^{-3} - 1/4 * H21b(6,1,3, \text{qext.qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} - 3/4 * H21b(6,1,3, \text{qext.qext}) * F^{-3} * \sin x^2 + 9/8 * H21b(6,1,8, \text{plext.plext}) * F^{-3} - 1/2 * H21b(6,1,8, \text{plext.plext}) * F^{-3} * \sin x * \cos x * \sqrt{3} - 3/2 * H21b(6,1,8, \text{plext.plext}) * F^{-3} * \sin x^2 - 9/16 * H21b(6,1,8, \text{qext.qext}) * F^{-3} + 1/4 * H21b(6,1,8, \text{qext.qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} + 3/4 * H21b(6,1,8, \text{qext.qext}) * F^{-3} * \sin x^2 - 3/8 * H21b(6,5,7, \text{qext.qext}) * F^{-3} + 3/16 * H21b(7,2,3, \text{qext.qext}) * F^{-3} - 1/4 * H21b(7,2,3, \text{qext.qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} - 3/4 * H21b(7,2,3, \text{qext.qext}) * F^{-3} * \sin x^2 - 9/16 * H21b(7,2,8, \text{qext.qext}) * F^{-3} + 1/4 * H21b(7,2,8, \text{qext.qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} + 3/4 * H21b(7,2,8, \text{qext.qext}) * F^{-3} * \sin x^2 + 3/4 * H21b(7,4,6, \text{plext.plext}) * F^{-3} - 3/8 * H21b(7,5,6, \text{qext.qext}) * F^{-3} + H21b(8,1,6, \text{plext.plext}) * F^{-3} * \sin x * \cos x * \sqrt{3} + 3/4 * H21b(8,1,6, \text{plext.plext}) * F^{-3} * \sin x^2 - 1/2 * H21b(8,1,6, \text{qext.qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} - 3/8 * H21b(8,1,6, \text{qext.qext}) * F^{-3} * \sin x^2 - 1/2 * H21b(8,2,7, \text{qext.qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} - 3/8 * H21b(8,2,7, \text{qext.qext}) * F^{-3} * \sin x^2 - 1/3 * HH1b(1,1,4, \text{qext.qext}) * F^{-3} + 1/2 * HH1b(1,2,5, \text{qext.qext}) * F^{-3} - HH1b(1,3,6, \text{plext.plext}) * F^{-3} + 2 * HH1b(1,3,6, \text{plext.plext}) * F^{-3} * \sin x^2 + 1/2 * HH1b(1,3,6, \text{qext.qext}) * F^{-3} - HH1b(1,3,6, \text{qext.qext}) * F^{-3} * \sin x^2 + 4/3 * HH1b(1,6,8, \text{plext.plext}) * F^{-3} * \sin x * \cos x * \sqrt{3} - 2/3 * HH1b(1,6,8, \text{qext.qext}) * F^{-3} * \sin x * \cos x * \sqrt{3} - 1/3 * HH1b(2,1,4, \text{plext.plext}) * F^{-3} + 1/2 * HH1b(2,1,5, \text{qext.qext}) * F^{-3} - 3 - 1/3 * HH1b(2,2,4, \text{qext.qext}) * F^{-3} + 1/2 * HH1b(2,3,7, \text{qext.qext}) * F^{-3}
\end{aligned}$$

$$\begin{aligned}
& - \text{HH1b}(2,3,7,\text{qext.qext}) * F^{-3} * \sin^2 - 2/3 * \text{HH1b}(2,7,8,\text{qext.qext}) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} - \text{HH1b}(3,1,6,\text{plext.plext}) * F^{-3} + 4/3 * \text{HH1b}(3,1,6,\text{plext.plext}) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} + 2 * \text{HH1b}(3,1,6,\text{plext.plext}) * F^{-3} * \sin^2 + 1/2 * \text{HH1b}(3,1,6,\text{qext.qext}) * F^{-3} - 2/3 * \text{HH1b}(3,1,6,\text{qext.qext}) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} - \text{HH1b}(3,1,6,\text{qext.qext}) * F^{-3} * \sin^2 + 1/2 * \text{HH1b}(3,2,7,\text{qext.qext}) * F^{-3} - 2/3 * \text{HH1b}(3,2,7,\text{qext.qext}) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} - \text{HH1b}(3,2,7,\text{qext.qext}) * F^{-3} * \sin^2 + 1/3 * \text{HH1b}(3,3,4,\text{plext.plext}) * F^{-3} + 16/9 * \text{HH1b}(3,3,4,\text{plext.plext}) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} + 13/3 * \text{HH1b}(3,3,4,\text{plext.plext}) * F^{-3} * \sin^2 + 8/9 * \text{HH1b}(3,3,4,\text{plext.plext}) * F^{-3} * \sin^3 * \cos^2 * \sqrt{3} - 8/3 * \text{HH1b}(3,3,4,\text{plext.plext}) * F^{-3} * \sin^4 - 1/3 * \text{HH1b}(3,3,4,\text{qext.qext}) * F^{-3} - 16/9 * \text{HH1b}(3,3,4,\text{qext.qext}) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} - 13/3 * \text{HH1b}(3,3,4,\text{qext.qext}) * F^{-3} * \sin^2 - 8/9 * \text{HH1b}(3,3,4,\text{qext.qext}) * F^{-3} * \sin^3 * \cos^2 * \sqrt{3} + 8/3 * \text{HH1b}(3,3,4,\text{qext.qext}) * F^{-3} * \sin^4 - 1/2 * \text{HH1b}(4,3,8,\text{plext.plext}) * F^{-3} - 4/9 * \text{HH1b}(4,3,8,\text{plext.plext}) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} + 8/3 * \text{HH1b}(4,3,8,\text{plext.plext}) * F^{-3} * \sin^2 + 8/9 * \text{HH1b}(4,3,8,\text{plext.plext}) * F^{-3} * \sin^3 * \cos^2 * \sqrt{3} - 8/3 * \text{HH1b}(4,3,8,\text{plext.plext}) * F^{-3} * \sin^4 + 1/2 * \text{HH1b}(4,3,8,\text{qext.qext}) * F^{-3} + 4/9 * \text{HH1b}(4,3,8,\text{qext.qext}) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} - 8/3 * \text{HH1b}(4,3,8,\text{qext.qext}) * F^{-3} * \sin^2 - 8/9 * \text{HH1b}(4,3,8,\text{qext.qext}) * F^{-3} * \sin^3 * \cos^2 * \sqrt{3} + 8/3 * \text{HH1b}(4,3,8,\text{qext.qext}) * F^{-3} * \sin^4 + 4/3 * \text{HH1b}(4,4,5,\text{plext.plext}) * F^{-3} + 5/3 * \text{HH1b}(4,5,5,\text{qext.qext}) * F^{-3} + 1/6 * \text{HH1b}(4,6,6,\text{qext.qext}) * F^{-3} + 1/3 * \text{HH1b}(4,6,7,\text{plext.plext}) * F^{-3} + 1/6 * \text{HH1b}(4,7,7,\text{qext.qext}) * F^{-3} - \text{HH1b}(4,8,8,\text{plext.plext}) * F^{-3} + 4/3 * \text{HH1b}(4,8,8,\text{plext.plext}) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} - 1/2 * \text{HH1b}(4,8,8,\text{plext.plext}) * F^{-3} * \sin^2 - 4/9 * \text{HH1b}(4,8,8,\text{plext.plext}) * F^{-3} * \sin^3 * \cos^2 * \sqrt{3} + 4/3 * \text{HH1b}(4,8,8,\text{plext.plext}) * F^{-3} * \sin^4 + \text{HH1b}(4,8,8,\text{qext.qext}) * F^{-3} - 4/3 * \text{HH1b}(4,8,8,\text{qext.qext}) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} + 1/2 * \text{HH1b}(4,8,8,\text{qext.qext}) * F^{-3} * \sin^2 + 4/9 * \text{HH1b}(4,8,8,\text{qext.qext}) * F^{-3} * \sin^3 * \cos^2 * \sqrt{3} - 4/3 * \text{HH1b}(4,8,8,\text{qext.qext}) * F^{-3} * \sin^4 - 1/2 * \text{HH1b}(5,6,7,\text{qext.qext}) * F^{-3} - \text{HH1b}(6,1,8,\text{plext.plext}) * F^{-3} + 4/3 * \text{HH1b}(6,1,8,\text{plext.plext}) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} + 2 * \text{HH1b}(6,1,8,\text{plext.plext}) * F^{-3} * \sin^2 + 1/2 * \text{HH1b}(6,1,8,\text{qext.qext}) * F^{-3} - 2/3 * \text{HH1b}(6,1,8,\text{qext.qext}) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} - \text{HH1b}(6,1,8,\text{qext.qext}) * F^{-3} * \sin^2 + 1/3 * \text{HH1b}(6,4,7,\text{plext.plext}) * F^{-3} + 1/2 * \text{HH1b}(7,2,8,\text{qext.qext}) * F^{-3} - 2/3 * \text{HH1b}(7,2,8,\text{qext.qext}) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} - \text{HH1b}(7,2,8,\text{qext.qext}) * F^{-3} * \sin^2) \\
& + \text{mkp}2^2 * (+ 197/98304 * F^{-3} * \pi^{-4} + 3/4096 * F^{-3} * \pi^{-2} - 7/4 * F^{-3} * \pi^{-2} * L8r - F^{-3} * \pi^{-2} * L7r - 5/2 * F^{-3} * \pi^{-2} * L6r + 17/24 * F^{-3} * \pi^{-2} * L5r + 5/4 * F^{-3} * \pi^{-2} * L4r - 89/864 * F^{-3} * \pi^{-2} * L3r - 61/144 * F^{-3} * \pi^{-2} * L2r - 1/8 * F^{-3} * \pi^{-2} * L1r - 8 * F^{-3} * L5r^2 - 32 * F^{-3} * L4r * L5r - 32 * F^{-3} * L4r^2 + 32 * F^{-3} * CC16 + 16 * F^{-3} * CC15 + 16 * F^{-3} * CC14 + 1/1152 * \ln(3) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} * \pi^{-4} - 7/9 * \ln(3) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} * \pi^{-2} * L8r - 5/3 * \ln(3) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} * \pi^{-2} * L7r - 1/3 * \ln(3) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} * \pi^{-2} * L6r + 13/108 * \ln(3) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} * \pi^{-2} * L5r + 1/4 * \ln(3) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} * \pi^{-2} * L4r + 1/18 * \ln(3) * F^{-3} * \sin^2 * \cos^2 * \sqrt{3} * \pi^{-2} * L3r + 41/18432 * \ln(3) * F^{-3} * \sin^2 * \pi^{-4} - 17/9 * \ln(3) * F^{-3} * \sin^2 * \pi^{-2} * L8r - 11/3 * \ln(3) * F^{-3} * \sin^2 * \pi^{-2} * L7r - \ln(3) * F^{-3} * \sin^2 * \pi^{-2} * L6r + 23/72 * \ln(3) * F^{-3} * \sin^2 * \pi^{-2} * L5r + 11/36 * \ln(3) * F^{-3} * \sin^2 * \pi^{-2} * L4r + 7/18 * \ln(3) * F^{-3} * \sin^2 * \pi^{-2} * L3r + 2/9 * \ln(3) * F^{-3} * \sin^2 * \pi^{-2} * L2r + 8/9 * \ln(3) * F^{-3} * \sin^2 * \pi^{-2} * L1r + 8/9 * \ln(3) * F^{-3} * \sin^3 * \cos^2 * \sqrt{3} * \pi^{-2} * L8r + 8/3 * \ln(3) * F^{-3} * \sin^3 * \cos^2 * \sqrt{3} * \pi^{-2} * L7r + 8/9 * \ln(3) * F^{-3} * \sin^4 * \pi^{-2} * L8r + 8/3 * \ln(3) * F^{-3} * \sin^4 * \pi^{-2} * L7r + 13/18432 * \ln(3)^2 * F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + 65/55296^*\ln(3)^{\wedge 2}^*F^{\wedge-3}*\sin x^{\wedge 2}^*\pi^{\wedge-4} + 19/27648^*\ln(3)^{\wedge 2}^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + 61/27648^*\ln(3)^{\wedge 2}^*F^{\wedge-3}*\sin x^{\wedge 4}^*\pi^{\wedge-4} - 1/864^*\ln(3)^{\wedge 2}^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 5}^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 1/864^*\ln(3)^{\wedge 2}^*F^{\wedge-3}*\sin x^{\wedge 6}^*\pi^{\wedge-4} - 1/1536^*\ln(3)^*\ln(4)^*F^{\wedge-} \\
& 3^*\pi^{\wedge-4} - 19/6912^*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 5/9216^*\ln(3)^*\ln(4)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}^*\pi^{\wedge-4} - 1/3456^*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 1/384^*\ln(3)^*\ln(4)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}^*\pi^{\wedge-4} + 1/1536^*\ln(3)^*\ln(6)^*F^{\wedge-3}^*\pi^{\wedge-4} + 7/3072^*\ln(3)^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 5/2048^*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}^*\pi^{\wedge-4} - 5/3456^*\ln(3)^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + 1/1152^*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 4}^*\pi^{\wedge-4} + \\
& 5/9216^*\ln(3)^*\ln(8)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + 5/1536^*\ln(3)^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}^*\pi^{\wedge-4} - 35/13824^*\ln(3)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 3}^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - \\
& 77/13824^*\ln(3)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 4}^*\pi^{\wedge-4} + 1/432^*\ln(3)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 5}^*\cos x^*\sqrt{3}^*\pi^{\wedge-} \\
& 4 + 1/432^*\ln(3)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 6}^*\pi^{\wedge-4} + 1/3072^*\ln(4)^*F^{\wedge-3}^*\pi^{\wedge-4} \\
& - 1/2^*\ln(4)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L8r - \ln(4)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L6r + 1/8^*\ln(4)^*F^{\wedge-} \\
& 3^*\pi^{\wedge-2}^*L5r + 1/4^*\ln(4)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L4r + 5/8^*\ln(4)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L3r + \\
& 7/8^*\ln(4)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L2r + 5/4^*\ln(4)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L1r + 1/4608^*\ln(4)^*\pi^{\wedge-} \\
& 3^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 1/1536^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}^*\pi^{\wedge-4} + 1/2048^*\ln(4)^*\pi^{\wedge 2}^*F^{\wedge-} \\
& 3^*\pi^{\wedge-4} - 29/9216^*\ln(4)^*\ln(8)^*F^{\wedge-3}^*\pi^{\wedge-4} + 19/6912^*\ln(4)^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + 5/9216^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}^*\pi^{\wedge-4} + 1/3456^*\ln(4)^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + 1/384^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 4}^*\pi^{\wedge-4} - 1/12288^*\ln(6)^*F^{\wedge-} \\
& 3^*\pi^{\wedge-4} - 1/4^*\ln(6)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L8r - 1/2^*\ln(6)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L6r + 1/16^*\ln(6)^*F^{\wedge-} \\
& 3^*\pi^{\wedge-2}^*L5r - 1/8^*\ln(6)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L4r + 5/16^*\ln(6)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L3r \\
& + 1/4^*\ln(6)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L2r + \ln(6)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L1r - 1/4608^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + 1/1536^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}^*\pi^{\wedge-4} - 1/8192^*\ln(6)^*\pi^{\wedge 2}^*F^{\wedge-} \\
& 3^*\pi^{\wedge-4} - 29/18432^*\ln(6)^*\ln(8)^*F^{\wedge-3}^*\pi^{\wedge-4} - 7/3072^*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-} \\
& 4 + 5/2048^*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}^*\pi^{\wedge-4} + 5/3456^*\ln(6)^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 1/1152^*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 4}^*\pi^{\wedge-4} + \\
& 41/18432^*\ln(8)^*F^{\wedge-3}^*\pi^{\wedge-4} - \ln(8)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L8r - \ln(8)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L7r \\
& - \ln(8)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L6r + 23/72^*\ln(8)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L5r + 11/36^*\ln(8)^*F^{\wedge-} \\
& 3^*\pi^{\wedge-2}^*L4r + 7/18^*\ln(8)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L3r + 2/9^*\ln(8)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L2r + \\
& 8/9^*\ln(8)^*F^{\wedge-3}^*\pi^{\wedge-2}^*L1r - 1/1152^*\ln(8)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + \\
& 7/9^*\ln(8)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L8r + 5/3^*\ln(8)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*L7r + 1/3^*\ln(8)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L6r - 13/108^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L5r - 1/4^*\ln(8)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L4r - \\
& 1/18^*\ln(8)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L3r - 41/18432^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}^*\pi^{\wedge-} \\
& 4 + 17/9^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}^*\pi^{\wedge-2}^*L8r + 11/3^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}^*\pi^{\wedge-} \\
& 2^*L7r + \ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}^*\pi^{\wedge-2}^*L6r - 23/72^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}^*\pi^{\wedge-} \\
& 2^*L5r - 11/36^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}^*\pi^{\wedge-2}^*L4r - 7/18^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}^*\pi^{\wedge-} \\
& 2^*L3r - 2/9^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}^*\pi^{\wedge-2}^*L2r - 8/9^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}^*\pi^{\wedge-} \\
& 2^*L1r - 8/9^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 3}^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L8r - 8/3^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L7r - 8/9^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 4}^*\pi^{\wedge-2}^*L8r - 8/3^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}^*\pi^{\wedge-2}^*L7r + 41/18432^*\ln(8)^*\pi^{\wedge 2}^*F^{\wedge-3}^*\pi^{\wedge-4} - 23/18432^*\ln(8)^*\pi^{\wedge 2}^*F^{\wedge-} \\
& 3^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 245/55296^*\ln(8)^*\pi^{\wedge 2}^*F^{\wedge-3}*\sin x^{\wedge 2}^*\pi^{\wedge-4} + 17/9216^*\ln(8)^*\pi^{\wedge 2}^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + 31/9216^*\ln(8)^*\pi^{\wedge 2}^*F^{\wedge-3}*\sin x^{\wedge 4}^*\pi^{\wedge-4} - 1/864^*\ln(8)^*\pi^{\wedge 2}^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 5}^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 1/864^*\ln(8)^*\pi^{\wedge 2}^*F^{\wedge-3}*\sin x^{\wedge 6}^*\pi^{\wedge-4} + 1/4^*Hb(1,3,6,1,p1ext.p1ext)^*F^{\wedge-} \\
& 3 - 4/9^*Hb(1,3,6,1,p1ext.p1ext)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3} - 2/3^*Hb(1,3,6,1,p1ext.p1ext)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2} + 1/12^*Hb(1,6,8,1,p1ext.p1ext)^*F^{\wedge-3} - 5/9^*Hb(1,6,8,1,p1ext.p1ext)^*F^{\wedge-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\cos x^*\sqrt{3} - 1/3^*\text{Hb}(1,6,8,1,\text{plext.plext})^*F^{-3}\sin x^2 - 1/12^*\text{Hb}(3,1,6,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} - 1/16^*\text{Hb}(3,3,4,1,\text{plext.plext})^*F^{-3} - 35/54^*\text{Hb}(3,3,4,1,\text{plext.plext})^*F^{-3} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 61/54^*\text{Hb}(3,3,4,1,\text{plext.plext})^*F^{-3}\sin x^2 + 20/27^*\text{Hb}(3,3,4,1,\text{plext.plext})^*F^{-3}\sin x^4 + 1/24^*\text{Hb}(3,4,8,1,\text{plext.plext})^*F^{-3} - 8/27^*\text{Hb}(3,4,8,1,\text{plext.plext})^*F^{-3}\sin x^2 + 8/27^*\text{Hb}(3,4,8,1,\text{plext.plext})^*F^{-3}\sin x^4 + 1/64^*\text{Hb}(4,3,3,1,\text{plext.plext})^*F^{-3} \\
& 3 + 5/24^*\text{Hb}(4,3,3,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} + 11/24^*\text{Hb}(4,3,3,1,\text{plext.plext})^*F^{-3}\sin x^2 - 1/3^*\text{Hb}(4,3,3,1,\text{plext.plext})^*F^{-3}\sin x^4 + 3/32^*\text{Hb}(4,3,8,1,\text{plext.plext})^*F^{-3} \\
& 3 - 2/3^*\text{Hb}(4,3,8,1,\text{plext.plext})^*F^{-3}\sin x^2 + 2/3^*\text{Hb}(4,3,8,1,\text{plext.plext})^*F^{-3}\sin x^4 + 181/576^*\text{Hb}(4,8,8,1,\text{plext.plext})^*F^{-3} - 85/216^*\text{Hb}(4,8,8,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} + 53/216^*\text{Hb}(4,8,8,1,\text{plext.plext})^*F^{-3}\sin x^2 - 13/27^*\text{Hb}(4,8,8,1,\text{plext.plext})^*F^{-3}\sin x^4 + 1/4^*\text{Hb}(5,4,4,1,\text{plext.plext})^*F^{-3} - 1/16^*\text{Hb}(6,1,3,1,\text{plext.plext})^*F^{-3} \\
& 3 + 1/4^*\text{Hb}(6,1,3,1,\text{plext.plext})^*F^{-3}\sin x^2 + 3/16^*\text{Hb}(6,1,8,1,\text{plext.plext})^*F^{-3}\sin x^2 + 1/8^*\text{Hb}(7,4,6,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} + 3/8^*\text{H21b}(1,3,6,1,\text{plext.plext})^*F^{-3} + 1/8^*\text{H21b}(1,3,6,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} - 3/8^*\text{H21b}(1,3,6,1,\text{plext.plext})^*F^{-3}\sin x^2 - 1/8^*\text{H21b}(1,6,8,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} + 3/8^*\text{H21b}(1,6,8,1,\text{plext.plext})^*F^{-3}\sin x^2 + 3/8^*\text{H21b}(2,1,4,1,\text{plext.plext})^*F^{-3} + 3/8^*\text{H21b}(3,1,6,1,\text{plext.plext})^*F^{-3} - 5/8^*\text{H21b}(3,1,6,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} - 3/8^*\text{H21b}(3,1,6,1,\text{plext.plext})^*F^{-3}\sin x^2 + 3/64^*\text{H21b}(4,3,3,1,\text{plext.plext})^*F^{-3} + 5/8^*\text{H21b}(4,3,3,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} + 11/8^*\text{H21b}(4,3,3,1,\text{plext.plext})^*F^{-3}\sin x^2 - \text{H21b}(4,3,3,1,\text{plext.plext})^*F^{-3}\sin x^4 + 9/32^*\text{H21b}(4,3,8,1,\text{plext.plext})^*F^{-3} - 2^*\text{H21b}(4,3,8,1,\text{plext.plext})^*F^{-3}\sin x^2 + 2^*\text{H21b}(4,3,8,1,\text{plext.plext})^*F^{-3}\sin x^4 + 27/64^*\text{H21b}(4,8,8,1,\text{plext.plext})^*F^{-3} - 5/8^*\text{H21b}(4,8,8,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} + 5/8^*\text{H21b}(4,8,8,1,\text{plext.plext})^*F^{-3}\sin x^2 - \text{H21b}(4,8,8,1,\text{plext.plext})^*F^{-3}\sin x^4 + 3/4^*\text{H21b}(5,4,4,1,\text{plext.plext})^*F^{-3} - 3/16^*\text{H21b}(6,1,3,1,\text{plext.plext})^*F^{-3} + 1/2^*\text{H21b}(6,1,3,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} + 3/4^*\text{H21b}(6,1,3,1,\text{plext.plext})^*F^{-3}\sin x^2 + 9/16^*\text{H21b}(6,1,8,1,\text{plext.plext})^*F^{-3} - 1/2^*\text{H21b}(6,1,8,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} - 3/4^*\text{H21b}(6,1,8,1,\text{plext.plext})^*F^{-3}\sin x^2 + 3/8^*\text{H21b}(7,4,6,1,\text{plext.plext})^*F^{-3} + 5/8^*\text{H21b}(8,1,6,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} + 3/8^*\text{H21b}(8,1,6,1,\text{plext.plext})^*F^{-3}\sin x^2 - 1/2^*\text{HH1b}(1,3,6,1,\text{plext.plext})^*F^{-3} + 1/3^*\text{HH1b}(1,3,6,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} + \text{HH1b}(1,3,6,1,\text{plext.plext})^*F^{-3}\sin x^2 + 2/3^*\text{HH1b}(1,6,8,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} - 1/2^*\text{HH1b}(3,1,6,1,\text{plext.plext})^*F^{-3} + \text{HH1b}(3,1,6,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} + \text{HH1b}(3,1,6,1,\text{plext.plext})^*F^{-3}\sin x^2 + 1/4^*\text{HH1b}(3,3,4,1,\text{plext.plext})^*F^{-3} + 5/3^*\text{HH1b}(3,3,4,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} + 25/9^*\text{HH1b}(3,3,4,1,\text{plext.plext})^*F^{-3}\sin x^2 - 16/9^*\text{HH1b}(3,3,4,1,\text{plext.plext})^*F^{-3}\sin x^4 - 1/4^*\text{HH1b}(4,3,8,1,\text{plext.plext})^*F^{-3} + 16/9^*\text{HH1b}(4,3,8,1,\text{plext.plext})^*F^{-3}\sin x^2 - 16/9^*\text{HH1b}(4,3,8,1,\text{plext.plext})^*F^{-3}\sin x^4 - 5/8^*\text{HH1b}(4,8,8,1,\text{plext.plext})^*F^{-3} + 5/6^*\text{HH1b}(4,8,8,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} - 7/18^*\text{HH1b}(4,8,8,1,\text{plext.plext})^*F^{-3}\sin x^2 + 8/9^*\text{HH1b}(4,8,8,1,\text{plext.plext})^*F^{-3}\sin x^4 - 1/2^*\text{HH1b}(6,1,8,1,\text{plext.plext})^*F^{-3} + \text{HH1b}(6,1,8,1,\text{plext.plext})^*F^{-3}\sin x^*\cos x^*\sqrt{3} + \text{HH1b}(6,1,8,1,\text{plext.plext})^*F^{-3}\sin x^2)
\end{aligned}$$

$$\begin{aligned}
& + \text{mkp}2^3 * (+ 5/13824/(\text{mass}(3))^*\ln(3)^2^*F^{-3}\sin x^*\cos x^*\sqrt{3}\pi^{-4} + 1/512/(\text{mass}(3))^*\ln(3)^2^*F^{-3}\sin x^2\pi^{-4} + 443/368640/(\text{mass}(4))^*\ln(4)^2^*F^{-3}\pi^{-4} + 367/368640/(\text{mass}(5))^*\ln(4)^2^*F^{-3}\pi^{-4} + 7/24576/(\text{mass}(6))^*\ln(6)^2^*F^{-3}\pi^{-4} + 11/24576/(\text{mass}(7))^*\ln(6)^2^*F^{-3}\pi^{-4} + 1/512/(\text{mass}(8))^*\ln(8)^2^*F^{-3}\pi^{-4} - 5/13824/(\text{mass}(8))^*\ln(8)^2^*F^{-3}\sin x^*\cos x^*\sqrt{3}\pi^{-4} - 1/512/(\text{mass}(8))^*\ln(8)^2^*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^2*\pi^{-4}) \\
& + \text{mpp2} * (- 1/8*\text{Hb}(1,2,5,\text{qext.qext})*F^{-3} + 1/8*\text{Hb}(1,3,6,\text{plext.plext})*F^{-3} + \\
& 41/72*\text{Hb}(1,3,6,\text{plext.plext})*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/8*\text{Hb}(1,3,6,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2 - 1/8*\text{Hb}(1,3,6,\text{qext.qext})*F^{-3} - 25/72*\text{Hb}(1,3,6,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} + 1/8*\text{Hb}(1,3,6,\text{qext.qext})*F^{-3}*\sin x^2 + 7/72*\text{Hb}(1,6,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} + 1/8*\text{Hb}(1,6,8,\text{plext.plext})*F^{-3}*\sin x^2 + 1/72*\text{Hb}(1,6,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} - 1/8*\text{Hb}(1,6,8,\text{qext.qext})*F^{-3}*\sin x^2 + 1/8*\text{Hb}(2,1,4,\text{plext.plext})*F^{-3} \\
& 3 - 1/8*\text{Hb}(2,1,5,\text{qext.qext})*F^{-3} - 1/8*\text{Hb}(2,3,7,\text{qext.qext})*F^{-3} - 25/72*\text{Hb}(2,3,7,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} + 1/8*\text{Hb}(2,3,7,\text{qext.qext})*F^{-3}*\sin x^2 + 1/72*\text{Hb}(2,7,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} - 1/8*\text{Hb}(2,7,8,\text{qext.qext})*F^{-3}*\sin x^2 + 1/8*\text{Hb}(3,1,6,\text{plext.plext})*F^{-3} \\
& 3 - 1/24*\text{Hb}(3,1,6,\text{plext.plext})*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/8*\text{Hb}(3,1,6,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2 - 1/8*\text{Hb}(3,1,6,\text{qext.qext})*F^{-3} + 1/24*\text{Hb}(3,1,6,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} + 1/8*\text{Hb}(3,1,6,\text{qext.qext})*F^{-3}*\sin x^2 - 1/8*\text{Hb}(3,2,7,\text{qext.qext})*F^{-3} \\
& 3 + 1/24*\text{Hb}(3,2,7,\text{qext.qext})*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/8*\text{Hb}(3,2,7,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^2 + 17/54*\text{Hb}(3,3,4,\text{plext.plext})*F^{-3}*\sin x*\cos x*\sqrt{3} + 5/9*\text{Hb}(3,3,4,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2 - 5/27*\text{Hb}(3,3,4,\text{plext.plext})*F^{-3}*\sin x^3*\cos x*\sqrt{3} - 5/9*\text{Hb}(3,3,4,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^4 - 17/54*\text{Hb}(3,3,4,\text{qext.qext})*F^{-3}*\sin x*\cos x*\sqrt{3} - 5/9*\text{Hb}(3,3,4,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^2 + 5/27*\text{Hb}(3,3,4,\text{qext.qext})*F^{-3}*\sin x^3*\cos x*\sqrt{3} + 5/9*\text{Hb}(3,3,4,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^4 + 1/27*\text{Hb}(3,4,8,\text{plext.plext})*F^{-3}*\sin x*\cos x*\sqrt{3} + 2/9*\text{Hb}(3,4,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2 - 2/27*\text{Hb}(3,4,8,\text{plext.plext})*F^{-3}*\sin x^3*\cos x*\sqrt{3} - 2/9*\text{Hb}(3,4,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^4 - 1/27*\text{Hb}(3,4,8,\text{qext.qext})*F^{-3}*\sin x*\cos x*\sqrt{3} - 2/9*\text{Hb}(3,4,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^2 + 2/27*\text{Hb}(3,4,8,\text{qext.qext})*F^{-3}*\sin x^3*\cos x*\sqrt{3} + 2/9*\text{Hb}(3,4,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^4 - 1/16*\text{Hb}(4,3,3,\text{plext.plext})*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/8*\text{Hb}(4,3,3,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2 + 1/24*\text{Hb}(4,3,3,\text{plext.plext})*F^{-3}*\sin x^3*\cos x*\sqrt{3} + 1/8*\text{Hb}(4,3,3,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^4 + 1/8*\text{Hb}(4,3,3,\text{qext.qext})*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/4*\text{Hb}(4,3,3,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^2 - 1/12*\text{Hb}(4,3,3,\text{qext.qext})*F^{-3}*\sin x^3*\cos x*\sqrt{3} - 1/4*\text{Hb}(4,3,3,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^4 + 1/24*\text{Hb}(4,3,8,\text{plext.plext})*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/4*\text{Hb}(4,3,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2 - 1/12*\text{Hb}(4,3,8,\text{plext.plext})*F^{-3}*\sin x^3*\cos x*\sqrt{3} - 1/4*\text{Hb}(4,3,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^4 - 1/12*\text{Hb}(4,3,8,\text{qext.qext})*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/2*\text{Hb}(4,3,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^2 + 1/6*\text{Hb}(4,3,8,\text{qext.qext})*F^{-3}*\sin x^3*\cos x*\sqrt{3} + 1/2*\text{Hb}(4,3,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^4 + 25/432*\text{Hb}(4,8,8,\text{plext.plext})*F^{-3}*\sin x*\cos x*\sqrt{3} - 17/72*\text{Hb}(4,8,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2 + 17/216*\text{Hb}(4,8,8,\text{plext.plext})*F^{-3}*\sin x^3*\cos x*\sqrt{3} + \\
& 17/72*\text{Hb}(4,8,8,\text{plext.plext})*F^{-3}*\sin x^4 - 17/216*\text{Hb}(4,8,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} + 13/36*\text{Hb}(4,8,8,\text{qext.qext})*F^{-3}*\sin x^2 - 13/108*\text{Hb}(4,8,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x^3*\cos x*\sqrt{3} - 13/36*\text{Hb}(4,8,8,\text{qext.qext})*F^{-3}*\sin x^4 + 1/12*\text{Hb}(6,1,3,\text{plext.plext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} - 1/12*\text{Hb}(6,1,3,\text{qext.qext})*F^{-3}*\sin x*\cos x*\sqrt{3} - \\
& 1/12*\text{Hb}(6,1,8,\text{plext.plext})*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/12*\text{Hb}(6,1,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} - 1/12*\text{Hb}(7,2,3,\text{qext.qext})*F^{-3}*\sin x*\cos x*\sqrt{3} + \\
& 1/12*\text{Hb}(7,2,8,\text{qext.qext})*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/24*\text{Hb}(8,1,6,\text{plext.plext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} + 1/8*\text{Hb}(8,1,6,\text{plext.plext})*F^{-3}*\sin x^2 - 1/24*\text{Hb}(8,1,6,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} - 1/8*\text{Hb}(8,1,6,\text{qext.qext})*F^{-3}*\sin x^2 - 1/24*\text{Hb}(8,2,7,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} - 1/8*\text{Hb}(8,2,7,\text{qext.qext})*F^{-3}*\sin x^2 + 1/4*\text{H21b}(1,3,6,\text{plext.plext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} - 1/8*\text{H21b}(1,3,6,\text{qext.qext})*F^{-3}*\sin x*\cos x*\sqrt{3} - \\
& 1/4*\text{H21b}(1,6,8,\text{plext.plext})*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/8*\text{H21b}(1,6,8,\text{qext.qext})*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3} - 1/8*\text{H21b}(2,3,7,\text{qext.qext})*F^{-3}*\sin x*\cos x*\sqrt{3} +
\end{aligned}$$

$$\begin{aligned}
& 1/8*H21b(2,7,8,qext.qext)*F^{-3}*sinx*cosx*sqrt3 + 1/4*H21b(3,1,6,plext.plext)*F^{-3}*sinx*cosx*sqrt3 - 1/8*H21b(3,1,6,qext.qext)*F^{-3}*sinx*cosx*sqrt3 - \\
& 1/8*H21b(3,2,7,qext.qext)*F^{-3}*sinx*cosx*sqrt3 - 3/8*H21b(4,3,3,plext.plext)*F^{-3}*sinx*cosx*sqrt3 - 3/4*H21b(4,3,3,plext.plext)*F^{-3}*sinx^2 + 1/4*H21b(4,3,3,plext.plext)*F^{-3}*sinx^3*cosx*sqrt3 + 3/4*H21b(4,3,3,plext.plext)*F^{-3}*sinx^4 + 3/8*H21b(4,3,3,qext.qext)*F^{-3}*sinx*cosx*sqrt3 + 3/4*H21b(4,3,3,qext.qext)*F^{-3}*sinx^2 - 1/4*H21b(4,3,3,qext.qext)*F^{-3}*sinx^3*cosx*sqrt3 - 3/4*H21b(4,3,3,qext.qext)*F^{-3}*sinx^4 + 1/4*H21b(4,3,8,plext.plext)*F^{-3}*sinx*cosx*sqrt3 + 3/2*H21b(4,3,8,plext.plext)*F^{-3}*sinx^2 - 1/2*H21b(4,3,8,plext.plext)*F^{-3}*sinx^3*cosx*sqrt3 - 3/2*H21b(4,3,8,plext.plext)*F^{-3}*sinx^4 - 1/4*H21b(4,3,8,qext.qext)*F^{-3}*sinx*cosx*sqrt3 - 3/2*H21b(4,3,8,qext.qext)*F^{-3}*sinx^2 + 1/2*H21b(4,3,8,qext.qext)*F^{-3}*sinx^3*cosx*sqrt3 + 3/2*H21b(4,3,8,qext.qext)*F^{-3}*sinx^4 + 1/8*H21b(4,8,8,plext.plext)*F^{-3}*sinx*cosx*sqrt3 - 3/4*H21b(4,8,8,plext.plext)*F^{-3}*sinx^2 + 1/4*H21b(4,8,8,plext.plext)*F^{-3}*sinx^3*cosx*sqrt3 + 3/4*H21b(4,8,8,plext.plext)*F^{-3}*sinx^4 - 1/8*H21b(4,8,8,qext.qext)*F^{-3}*sinx*cosx*sqrt3 + 3/4*H21b(4,8,8,qext.qext)*F^{-3}*sinx^2 - 1/4*H21b(4,8,8,qext.qext)*F^{-3}*sinx^3*cosx*sqrt3 - 3/4*H21b(4,8,8,qext.qext)*F^{-3}*sinx^4 - 1/2*H21b(6,1,3,plext.plext)*F^{-3}*sinx*cosx*sqrt3 + 1/4*H21b(6,1,3,qext.qext)*F^{-3}*sinx*cosx*sqrt3 + 1/2*H21b(6,1,8,plext.plext)*F^{-3}*sinx*cosx*sqrt3 - 1/4*H21b(6,1,8,qext.qext)*F^{-3}*sinx*cosx*sqrt3 + 1/4*H21b(7,2,3,qext.qext)*F^{-3}*sinx*cosx*sqrt3 - 1/4*H21b(8,1,6,plext.plext)*F^{-3}*sinx*cosx*sqrt3 + 1/8*H21b(8,1,6,qext.qext)*F^{-3}*sinx*cosx*sqrt3 + 1/8*H21b(8,2,7,qext.qext)*F^{-3}*sinx*cosx*sqrt3 - 2/3*HH1b(1,3,6,plext.plext)*F^{-3}*sinx*cosx*sqrt3 + 1/3*HH1b(1,3,6,qext.qext)*F^{-3}*sinx*cosx*sqrt3 + 1/3*HH1b(2,3,7,qext.qext)*F^{-3}*sinx*cosx*sqrt3 - 2/3*HH1b(3,1,6,plext.plext)*F^{-3}*sinx*cosx*sqrt3 + 1/3*HH1b(3,1,6,qext.qext)*F^{-3}*sinx*cosx*sqrt3 + 1/3*HH1b(3,2,7,qext.qext)*F^{-3}*sinx*cosx*sqrt3 - 7/9*HH1b(3,3,4,plext.plext)*F^{-3}*sinx*cosx*sqrt3 - 4/3*HH1b(3,3,4,plext.plext)*F^{-3}*sinx^2 + 4/9*HH1b(3,3,4,plext.plext)*F^{-3}*sinx^3*cosx*sqrt3 + 4/3*HH1b(3,3,4,plext.plext)*F^{-3}*sinx^4 + 7/9*HH1b(3,3,4,qext.qext)*F^{-3}*sinx*cosx*sqrt3 + 4/3*HH1b(3,3,4,qext.qext)*F^{-3}*sinx^2 - 4/9*HH1b(3,3,4,qext.qext)*F^{-3}*sinx^3*cosx*sqrt3 - 4/3*HH1b(3,3,4,qext.qext)*F^{-3}*sinx^4 - 2/9*HH1b(4,3,8,plext.plext)*F^{-3}*sinx*cosx*sqrt3 - 4/3*HH1b(4,3,8,plext.plext)*F^{-3}*sinx^2 + 4/9*HH1b(4,3,8,plext.plext)*F^{-3}*sinx^3*cosx*sqrt3 + 4/3*HH1b(4,3,8,plext.plext)*F^{-3}*sinx^4 + 2/9*HH1b(4,3,8,qext.qext)*F^{-3}*sinx*cosx*sqrt3 + 4/3*HH1b(4,3,8,qext.qext)*F^{-3}*sinx^2 - 4/9*HH1b(4,3,8,qext.qext)*F^{-3}*sinx^3*cosx*sqrt3 - 4/3*HH1b(4,3,8,qext.qext)*F^{-3}*sinx^4 - 1/6*HH1b(4,8,8,plext.plext)*F^{-3}*sinx*cosx*sqrt3 + 2/3*HH1b(4,8,8,plext.plext)*F^{-3}*sinx^2 - 2/9*HH1b(4,8,8,plext.plext)*F^{-3}*sinx^3*cosx*sqrt3 - 2/3*HH1b(4,8,8,plext.plext)*F^{-3}*sinx^4 + 1/6*HH1b(4,8,8,qext.qext)*F^{-3}*sinx*cosx*sqrt3 - 2/3*HH1b(4,8,8,qext.qext)*F^{-3}*sinx^2 + 2/9*HH1b(4,8,8,qext.qext)*F^{-3}*sinx^3*cosx*sqrt3 + 2/3*HH1b(4,8,8,qext.qext)*F^{-3}*sinx^4 - 2/3*HH1b(6,1,8,plext.plext)*F^{-3}*sinx*cosx*sqrt3 + 1/3*HH1b(7,2,8,qext.qext)*F^{-3}*sinx*cosx*sqrt3) \\
& + mpp2*mkp2 * (- 29/49152*F^{-3}*pi^{-4} + 1/8192*F^{-3}*pi^{-2} + F^{-3}*pi^{-2}*L8r + 2*F^{-3}*pi^{-2}*L7r - 7/4*F^{-3}*pi^{-2}*L6r - 1/6*F^{-3}*pi^{-2}*L5r + 7/8*F^{-3}*pi^{-2}*L4r + 1/216*F^{-3}*pi^{-2}*L3r + 1/18*F^{-3}*pi^{-2}*L2r - 16*F^{-3}*L4r*L5r - 32*F^{-3}*L4r^2 + 16*F^{-3}*CC17 - 32*F^{-3}*CC16 + 8*F^{-3}*CC15 - 16*F^{-3}*CC14 + 5/4096*ln(1)*F^{-3}*pi^{-4} - 1/2*ln(1)*F^{-3}*pi^{-2}*L6r - 1/16*ln(1)*F^{-3}*pi^{-2}*L5r + 3/8*ln(1)*F^{-3}*pi^{-2}*L4r - 1/2304*ln(1)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 11/18432^*\ln(1)^*\ln(3)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} \\
& + 5/18432^*\ln(1)^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\pi^{\wedge-4} + 1/2304^*\ln(1)^*\ln(3)^*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 3}*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + 1/2304^*\ln(1)^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 4}*\pi^{\wedge-4} + \\
& 1/4096^*\ln(1)^*\ln(6)^*F^{\wedge-3}*\pi^{\wedge-4} + 13/18432^*\ln(1)^*\ln(8)^*F^{\wedge-3}*\pi^{\wedge-4} + \\
& 11/18432^*\ln(1)^*\ln(8)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 5/18432^*\ln(1)^*\ln(8)^*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 2}*\pi^{\wedge-4} - 1/2304^*\ln(1)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 3}*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 1/2304^*\ln(1)^*\ln(8)^*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 4}*\pi^{\wedge-4} + 5/8192^*\ln(3)^*F^{\wedge-3}*\pi^{\wedge-4} - 1/4^*\ln(3)^*F^{\wedge-3}*\pi^{\wedge-2}*\text{L6r} - \\
& 1/32^*\ln(3)^*F^{\wedge-3}*\pi^{\wedge-2}*\text{L5r} + 3/16^*\ln(3)^*F^{\wedge-3}*\pi^{\wedge-2}*\text{L4r} - 5/18432^*\ln(3)^*F^{\wedge-3} \\
& *3^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + 11/9^*\ln(3)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r} + \\
& 10/3^*\ln(3)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r} - 1/3^*\ln(3)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2} \\
& *\text{L6r} - 7/216^*\ln(3)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L5r} + 1/4^*\ln(3)^*F^{\wedge-3} \\
& *3^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r} - 1/36^*\ln(3)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L3r} \\
& - 35/36864^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\pi^{\wedge-4} + 25/9^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\pi^{\wedge-2}*\text{L8r} \\
& + 22/3^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\pi^{\wedge-2}*\text{L7r} - 19/144^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\pi^{\wedge-2} \\
& *\text{L5r} + 2/9^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\pi^{\wedge-2}*\text{L4r} - 7/36^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\pi^{\wedge-2} \\
& *\text{L3r} - 1/9^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\pi^{\wedge-2}*\text{L2r} - 4/9^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\pi^{\wedge-2} \\
& *\text{L1r} - 16/9^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 3}*\cos x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r} - 16/3^*\ln(3)^*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 3}*\cos x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r} - 16/9^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 4}*\pi^{\wedge-2}*\text{L8r} - \\
& 16/3^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 4}*\pi^{\wedge-2}*\text{L7r} - 1/1024^*\ln(3)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} \\
& - 179/110592^*\ln(3)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 2}*\pi^{\wedge-4} + 19/27648^*\ln(3)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 3}*\cos x^*\sqrt{3}^*\pi^{\wedge-4} \\
& - 11/27648^*\ln(3)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 4}*\pi^{\wedge-4} + 1/1728^*\ln(3)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 5}*\cos x^*\sqrt{3}^*\pi^{\wedge-4} \\
& + 1/1728^*\ln(3)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 6}*\pi^{\wedge-4} - 1/3072^*\ln(3)^*\ln(4)^*F^{\wedge-3}*\pi^{\wedge-4} + \\
& 11/27648^*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 13/18432^*\ln(3)^*\ln(4)^*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 2}*\pi^{\wedge-4} + 5/3456^*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + \\
& 1/576^*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 4}*\pi^{\wedge-4} + 11/24576^*\ln(3)^*\ln(6)^*F^{\wedge-3}*\pi^{\wedge-4} - \\
& 1/768^*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 65/36864^*\ln(3)^*\ln(6)^*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 2}*\pi^{\wedge-4} + 11/6912^*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + \\
& 1/768^*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 4}*\pi^{\wedge-4} + 13/36864^*\ln(3)^*\ln(8)^*F^{\wedge-3}*\pi^{\wedge-4} \\
& - 1/9216^*\ln(3)^*\ln(8)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 1/512^*\ln(3)^*\ln(8)^*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 2}*\pi^{\wedge-4} + 13/13824^*\ln(3)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 3}*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + \\
& 43/13824^*\ln(3)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 4}*\pi^{\wedge-4} - 1/864^*\ln(3)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 5}*\cos x^*\sqrt{3}^*\pi^{\wedge-4} \\
& - 1/864^*\ln(3)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 6}*\pi^{\wedge-4} + 1/6144^*\ln(4)^*F^{\wedge-3}*\pi^{\wedge-4} - \\
& 1/2^*\ln(4)^*F^{\wedge-3}*\pi^{\wedge-2}*\text{L6r} + 3/8^*\ln(4)^*F^{\wedge-3}*\pi^{\wedge-2}*\text{L4r} + 1/1536^*\ln(4)^*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 2}*\pi^{\wedge-4} + 5/9216^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\pi^{\wedge-4} - 11/27648^*\ln(4)^*\ln(8)^*F^{\wedge-3} \\
& *3^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + 13/18432^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}*\pi^{\wedge-4} - \\
& 5/3456^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 3}*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 1/576^*\ln(4)^*\ln(8)^*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 4}*\pi^{\wedge-4} + 1/768^*\ln(6)^*F^{\wedge-3}*\pi^{\wedge-4} - 1/4^*\ln(6)^*F^{\wedge-3}*\pi^{\wedge-2}*\text{L6r} + \\
& 3/16^*\ln(6)^*F^{\wedge-3}*\pi^{\wedge-2}*\text{L4r} + 1/2304^*\ln(6)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} \\
& - 1/1536^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\pi^{\wedge-4} + 11/73728^*\ln(6)^*\ln(8)^*F^{\wedge-3}*\pi^{\wedge-4} + \\
& 1/768^*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + 65/36864^*\ln(6)^*\ln(8)^*F^{\wedge-3} \\
& *3^*\sin x^{\wedge 2}*\pi^{\wedge-4} - 11/6912^*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 3}*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - \\
& 1/768^*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 4}*\pi^{\wedge-4} - 25/73728^*\ln(8)^*F^{\wedge-3}*\pi^{\wedge-4} + \ln(8)^*F^{\wedge-3} \\
& *3^*\pi^{\wedge-2}*\text{L8r} + 2^*\ln(8)^*F^{\wedge-3}*\pi^{\wedge-2}*\text{L7r} - 1/4^*\ln(8)^*F^{\wedge-3}*\pi^{\wedge-2}*\text{L6r} - \\
& 47/288^*\ln(8)^*F^{\wedge-3}*\pi^{\wedge-2}*\text{L5r} + 59/144^*\ln(8)^*F^{\wedge-3}*\pi^{\wedge-2}*\text{L4r} - 7/36^*\ln(8)^*F^{\wedge-3} \\
& *3^*\pi^{\wedge-2}*\text{L3r} - 1/9^*\ln(8)^*F^{\wedge-3}*\pi^{\wedge-2}*\text{L2r} - 4/9^*\ln(8)^*F^{\wedge-3}*\pi^{\wedge-2}*\text{L1r} + \\
& 5/18432^*\ln(8)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 11/9^*\ln(8)^*F^{\wedge-3}*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4}
\end{aligned}$$

$$\begin{aligned}
& 2^*L8r - 10/3*\ln(8)*F^{-3}*\sinx*\cosx*\sqrt{3}*\pi^{-2}*L7r + 1/3*\ln(8)*F^{-3}*\sinx*\cosx*\sqrt{3}*\pi^{-2}*L6r + 7/216*\ln(8)*F^{-3}*\sinx*\cosx*\sqrt{3}*\pi^{-2}*L5r - 1/4*\ln(8)*F^{-3}*\sinx*\cosx*\sqrt{3}*\pi^{-2}*L4r + 1/36*\ln(8)*F^{-3}*\sinx*\cosx*\sqrt{3}*\pi^{-2}*L3r + 35/36864*\ln(8)*F^{-3}*\sinx^2*\pi^{-4} - 25/9*\ln(8)*F^{-3}*\sinx^2*\pi^{-2}*L8r - 22/3*\ln(8)*F^{-3}*\sinx^2*\pi^{-2}*L7r + 19/144*\ln(8)*F^{-3}*\sinx^2*\pi^{-2}*L5r - 2/9*\ln(8)*F^{-3}*\sinx^2*\pi^{-2}*L4r + 7/36*\ln(8)*F^{-3}*\sinx^2*\pi^{-2}*L3r + 1/9*\ln(8)*F^{-3}*\sinx^2*\pi^{-2}*L2r + 4/9*\ln(8)*F^{-3}*\sinx^2*\pi^{-2}*L1r + 16/9*\ln(8)*F^{-3}*\sinx^3*\cosx*\sqrt{3}*\pi^{-2}*L8r + 16/3*\ln(8)*F^{-3}*\sinx^3*\cosx*\sqrt{3}*\pi^{-2}*L7r + 16/9*\ln(8)*F^{-3}*\sinx^4*\pi^{-2}*L8r + 16/3*\ln(8)*F^{-3}*\sinx^4*\pi^{-2}*L7r - 53/36864*\ln(8)^2*F^{-3}*\pi^{-4} + 5/4608*\ln(8)^2*F^{-3}*\sinx*\cosx*\sqrt{3}*\pi^{-4} + 395/110592*\ln(8)^2*F^{-3}*\sinx^2*\pi^{-4} - 5/3072*\ln(8)^2*F^{-3}*\sinx^3*\cosx*\sqrt{3}*\pi^{-4} - 25/9216*\ln(8)^2*F^{-3}*\sinx^4*\pi^{-4} + 1/1728*\ln(8)^2*F^{-3}*\sinx^5*\cosx*\sqrt{3}*\pi^{-4} + 1/1728*\ln(8)^2*F^{-3}*\sinx^6*\pi^{-4} + 1/8*Hb(1,3,6,1,plext.plext)*F^{-3} + 19/36*Hb(1,3,6,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 1/8*Hb(1,3,6,1,plext.plext)*F^{-3}*\sinx^2 + 5/36*Hb(1,6,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 1/8*Hb(1,6,8,1,plext.plext)*F^{-3}*\sinx^2 + 1/8*Hb(2,1,4,1,plext.plext)*F^{-3} + 1/8*Hb(3,1,6,1,plext.plext)*F^{-3} - 1/12*Hb(3,1,6,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 1/8*Hb(3,1,6,1,plext.plext)*F^{-3}*\sinx^2 + 4/9*Hb(3,3,4,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 10/27*Hb(3,3,4,1,plext.plext)*F^{-3}*\sinx^2 - 10/27*Hb(3,3,4,1,plext.plext)*F^{-3}*\sinx^3*\cosx*\sqrt{3} - 10/27*Hb(3,3,4,1,plext.plext)*F^{-3}*\sinx^4 + 2/27*Hb(3,4,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 4/27*Hb(3,4,8,1,plext.plext)*F^{-3}*\sinx^2 - 4/27*Hb(3,4,8,1,plext.plext)*F^{-3}*\sinx^3*\cosx*\sqrt{3} - 4/27*Hb(3,4,8,1,plext.plext)*F^{-3}*\sinx^4 - 1/6*Hb(4,3,3,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 1/6*Hb(4,3,3,1,plext.plext)*F^{-3}*\sinx^2 + 1/6*Hb(4,3,3,1,plext.plext)*F^{-3}*\sinx^3*\cosx*\sqrt{3} + 1/6*Hb(4,3,3,1,plext.plext)*F^{-3}*\sinx^4 + 1/6*Hb(4,3,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 1/3*Hb(4,3,8,1,plext.plext)*F^{-3}*\sinx^2 - 1/3*Hb(4,3,8,1,plext.plext)*F^{-3}*\sinx^3*\cosx*\sqrt{3} - 1/3*Hb(4,3,8,1,plext.plext)*F^{-3}*\sinx^4 + 1/27*Hb(4,8,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 13/54*Hb(4,8,8,1,plext.plext)*F^{-3}*\sinx^2 + 13/54*Hb(4,8,8,1,plext.plext)*F^{-3}*\sinx^3*\cosx*\sqrt{3} + 13/54*Hb(4,8,8,1,plext.plext)*F^{-3}*\sinx^4 + 1/12*Hb(8,1,6,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 1/8*Hb(8,1,6,1,plext.plext)*F^{-3}*\sinx^2 + 1/4*H21b(1,3,6,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 1/4*H21b(1,6,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 1/4*H21b(3,1,6,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 1/2*H21b(4,3,3,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 1/2*H21b(4,3,3,1,plext.plext)*F^{-3}*\sinx^2 + 1/2*H21b(4,3,3,1,plext.plext)*F^{-3}*\sinx^3*\cosx*\sqrt{3} + 1/2*H21b(4,3,3,1,plext.plext)*F^{-3}*\sinx^4 + 1/2*H21b(4,3,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + H21b(4,3,8,1,plext.plext)*F^{-3}*\sinx^2 - H21b(4,3,8,1,plext.plext)*F^{-3}*\sinx^3*\cosx*\sqrt{3} - H21b(4,3,8,1,plext.plext)*F^{-3}*\sinx^4 - 1/2*H21b(4,8,8,1,plext.plext)*F^{-3}*\sinx^2 + 1/2*H21b(4,8,8,1,plext.plext)*F^{-3}*\sinx^3*\cosx*\sqrt{3} + 1/2*H21b(4,8,8,1,plext.plext)*F^{-3}*\sinx^4 - 1/2*H21b(6,1,3,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 1/2*H21b(6,1,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 1/4*H21b(8,1,6,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 2/3*HH1b(1,3,6,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 2/3*HH1b(3,1,6,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 10/9*HH1b(3,3,4,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 8/9*HH1b(3,3,4,1,plext.plext)*F^{-3}*\sinx^2 + 8/9*HH1b(3,3,4,1,plext.plext)*F^{-3}*\sinx^3*\cosx*\sqrt{3} + 8/9*HH1b(3,3,4,1,plext.plext)*F^{-3}*\sinx^4 - 4/9*HH1b(4,3,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 8/9*HH1b(4,3,8,1,plext.plext)*F^{-3}*\sinx^2 + 8/9*HH1b(4,3,8,1,plext.plext)*F^{-3}*\sinx^3*\cosx*\sqrt{3} + 8/9*HH1b(4,3,8,1,plext.plext)*F^{-3}*\sinx^4 -
\end{aligned}$$

$$\begin{aligned}
& 1/9*HH1b(4,8,8,1,pl\text{ext}.pl\text{ext})*F^{-3}\sin x*\cos x*\sqrt{3} + 4/9*HH1b(4,8,8,1,pl\text{ext}.pl\text{ext})*F^{-3}\sin x^2 - 4/9*HH1b(4,8,8,1,pl\text{ext}.pl\text{ext})*F^{-3}\sin x^3*\cos x*\sqrt{3} - 4/9*HH1b(4,8,8,1,pl\text{ext}.pl\text{ext})*F^{-3}\sin x^4 - 2/3*HH1b(6,1,8,1,pl\text{ext}.pl\text{ext})*F^{-3}\sin x*\cos x*\sqrt{3} \\
& + mpp2*mkp2^2 * (- 1/9216/(mass(3))*\ln(3)^2F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} - 1/1024/(mass(3))*\ln(3)^2F^{-3}\sin x^2\pi^{-4} - 71/368640/(mass(4))*\ln(4)^2F^{-3}\pi^{-4} + 161/368640/(mass(5))*\ln(4)^2F^{-3}\pi^{-4} + 1/12288/(mass(6))*\ln(6)^2F^{-3}\pi^{-4} + 5/12288/(mass(7))*\ln(6)^2F^{-3}\pi^{-4} - 1/1024/(mass(8))*\ln(8)^2F^{-3}\pi^{-4} + 1/9216/(mass(8))*\ln(8)^2F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} + 1/1024/(mass(8))*\ln(8)^2F^{-3}\sin x^2\pi^{-4}) \\
& + mpp2^2 * (+ 13/12288F^{-3}\pi^{-4} + 1/4096F^{-3}\pi^{-2} - 3/4F^{-3}\pi^{-2}*L8r - F^{-3}\pi^{-2}*L7r - 1/4F^{-3}\pi^{-2}*L6r + 5/24F^{-3}\pi^{-2}*L5r + 1/8F^{-3}\pi^{-2}*L4r - 41/864F^{-3}\pi^{-2}*L3r - 7/36F^{-3}\pi^{-2}*L2r - 8F^{-3}*L4r^2 - 8F^{-3}*CC17 + 24F^{-3}*CC16 + 8F^{-3}*CC14 - 1/4*\ln(1)*F^{-3}\pi^{-2}*L8r - 1/4*\ln(1)*F^{-3}\pi^{-2}*L6r + 1/8*\ln(1)*F^{-3}\pi^{-2}*L5r - 5/16*\ln(1)*F^{-3}\pi^{-2}*L4r + 5/16*\ln(1)*F^{-3}\pi^{-2}*L3r + 1/4*\ln(1)*F^{-3}\pi^{-2}*L2r + \ln(1)*F^{-3}\pi^{-2}*L1r + 1/2304*\ln(1)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} - 1/8192*\ln(1)^2F^{-3}\pi^{-4} - 11/8192*\ln(1)*\ln(3)*F^{-3}\pi^{-4} + 13/36864*\ln(1)*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} + 101/36864*\ln(1)*\ln(3)*F^{-3}\sin x^2\pi^{-4} - 5/4608*\ln(1)*\ln(3)*F^{-3}\sin x^3*\cos x*\sqrt{3}\pi^{-4} - 5/4608*\ln(1)*\ln(3)*F^{-3}\sin x^4\pi^{-4} + 23/73728*\ln(1)*\ln(8)*F^{-3}\pi^{-4} - 13/36864*\ln(1)*\ln(8)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} - 101/36864*\ln(1)*\ln(8)*F^{-3}\sin x^2\pi^{-4} + 5/4608*\ln(1)*\ln(8)*F^{-3}\sin x^3*\cos x*\sqrt{3}\pi^{-4} + 5/4608*\ln(1)*\ln(8)*F^{-3}\sin x^4\pi^{-4} - 1/8*\ln(3)*F^{-3}\pi^{-2}*L8r - 1/8*\ln(3)*F^{-3}\pi^{-2}*L6r + 1/16*\ln(3)*F^{-3}\pi^{-2}*L5r - 5/32*\ln(3)*F^{-3}\pi^{-2}*L4r + 5/32*\ln(3)*F^{-3}\pi^{-2}*L3r + 1/8*\ln(3)*F^{-3}\pi^{-2}*L2r + 1/2*\ln(3)*F^{-3}\pi^{-2}*L1r + 23/36864*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} - 25/36*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}*L8r - 5/3*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}*L7r - 1/12*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}*L6r + 25/432*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}*L5r + 1/16*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}*L4r + 5/144*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}*L3r - 1/18432*\ln(3)*F^{-3}\sin x^2\pi^{-4} - 41/36*\ln(3)*F^{-3}\sin x^2\pi^{-2}*L8r - 11/3*\ln(3)*F^{-3}\sin x^2\pi^{-2}*L7r + 1/4*\ln(3)*F^{-3}\sin x^2\pi^{-2}*L6r - 1/24*\ln(3)*F^{-3}\sin x^2\pi^{-2}*L5r + 5/144*\ln(3)*F^{-3}\sin x^2\pi^{-2}*L4r - 19/144*\ln(3)*F^{-3}\sin x^2\pi^{-2}*L3r - 1/9*\ln(3)*F^{-3}\sin x^2\pi^{-2}*L2r - 4/9*\ln(3)*F^{-3}\sin x^2\pi^{-2}*L1r + 8/9*\ln(3)*F^{-3}\sin x^3*\cos x*\sqrt{3}\pi^{-2}*L8r + 8/3*\ln(3)*F^{-3}\sin x^3*\cos x*\sqrt{3}\pi^{-2}*L7r + 8/9*\ln(3)*F^{-3}\sin x^4\pi^{-2}*L8r + 8/3*\ln(3)*F^{-3}\sin x^4\pi^{-2}*L7r + 9/32768*\ln(3)^2F^{-3}\pi^{-4} + 65/73728*\ln(3)^2F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} + 157/110592*\ln(3)^2F^{-3}\sin x^2\pi^{-4} - 125/110592*\ln(3)^2F^{-3}\sin x^3*\cos x*\sqrt{3}\pi^{-4} - 227/110592*\ln(3)^2F^{-3}\sin x^4\pi^{-4} + 1/1728*\ln(3)^2F^{-3}\sin x^5*\cos x*\sqrt{3}\pi^{-4} + 1/1728*\ln(3)^2F^{-3}\sin x^6*\pi^{-4} - 5/55296*\ln(3)*\ln(4)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} - 1/4608*\ln(3)*\ln(4)*F^{-3}\sin x^2\pi^{-4} - 7/13824*\ln(3)*\ln(4)*F^{-3}\sin x^3*\cos x*\sqrt{3}\pi^{-4} + 1/4608*\ln(3)*\ln(4)*F^{-3}\sin x^4\pi^{-4} - 1/12288*\ln(3)*\ln(6)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} + 1/1152*\ln(3)*\ln(6)*F^{-3}\sin x^2\pi^{-4} - 1/6912*\ln(3)*\ln(6)*F^{-3}\sin x^3*\cos x*\sqrt{3}\pi^{-4} - 1/1152*\ln(3)*\ln(6)*F^{-3}\sin x^4\pi^{-4} + 23/147456*\ln(3)*\ln(8)*F^{-3}\pi^{-4} - 7/36864*\ln(3)*\ln(8)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4 - 11/6144*\ln(3)*\ln(8)*F^{-3*\sin x^2*\pi^4} + 61/55296*\ln(3)*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^4} + 163/55296*\ln(3)*\ln(8)*F^{-3*\sin x^4*\pi^4} - \\
& 1/864*\ln(3)*\ln(8)*F^{-3*\sin x^5*\cos x*\sqrt{3}*\pi^4} - 1/864*\ln(3)*\ln(8)*F^{-3*\sin x^6*\pi^4} - 1/4608*\ln(4)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^4} + 5/55296*\ln(4)*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^4} + 1/4608*\ln(4)*\ln(8)*F^{-3*\sin x^2*\pi^4} + 7/13824*\ln(4)*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^4} - 1/4608*\ln(4)*\ln(8)*F^{-3*\sin x^4*\pi^4} - 1/4608*\ln(6)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^4} + 1/12288*\ln(6)*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^4} - 1/1152*\ln(6)*\ln(8)*F^{-3*\sin x^2*\pi^4} + 1/6912*\ln(6)*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^4} - 4 + 1/1152*\ln(6)*\ln(8)*F^{-3*\sin x^4*\pi^4} - 1/18432*\ln(8)*F^{-3*\pi^4} - 3/8*\ln(8)*F^{-3*\pi^2*L8r} - \ln(8)*F^{-3*\pi^2*L7r} + 1/8*\ln(8)*F^{-3*\pi^2*L6r} + 1/48*\ln(8)*F^{-3*\pi^2*L5r} - 35/288*\ln(8)*F^{-3*\pi^2*L4r} + 7/288*\ln(8)*F^{-3*\pi^2*L3r} + 1/72*\ln(8)*F^{-3*\pi^2*L2r} + 1/18*\ln(8)*F^{-3*\pi^2*L1r} - 23/36864*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^4} + 25/36*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^2*L8r} + 5/3*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^2*L7r} + 1/12*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^2*L6r} - 25/432*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^2*L5r} - 1/16*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^2*L4r} - 5/144*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^2*L3r} + 1/18432*\ln(8)*F^{-3*\sin x^2*\pi^4} + 41/36*\ln(8)*F^{-3*\sin x^2*\pi^2*L8r} + 11/3*\ln(8)*F^{-3*\sin x^2*\pi^2*L7r} - 1/4*\ln(8)*F^{-3*\sin x^2*\pi^2*L6r} + 1/24*\ln(8)*F^{-3*\sin x^2*\pi^2*L5r} - 5/144*\ln(8)*F^{-3*\sin x^2*\pi^2*L4r} + 19/144*\ln(8)*F^{-3*\sin x^2*\pi^2*L3r} + 1/9*\ln(8)*F^{-3*\sin x^2*\pi^2*L2r} + 4/9*\ln(8)*F^{-3*\sin x^2*\pi^2*L1r} - 8/9*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^2*L7r} - 8/9*\ln(8)*F^{-3*\sin x^4*\pi^2*L8r} - 8/3*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^2*L7r} + 65/294912*\ln(8)^2*F^{-3*\pi^4} - 17/24576*\ln(8)^2*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^4} + 41/110592*\ln(8)^2*F^{-3*\sin x^2*\pi^4} + 1/36864*\ln(8)^2*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^4} - 4 - 11/12288*\ln(8)^2*F^{-3*\sin x^4*\pi^4} + 1/1728*\ln(8)^2*F^{-3*\sin x^5*\cos x*\sqrt{3}*\pi^4} - 4 + 1/1728*\ln(8)^2*F^{-3*\sin x^6*\pi^4} + 1/24*Hb(1,3,6,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} - 1/24*Hb(1,6,8,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} + 1/24*Hb(3,1,6,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} - 5/108*Hb(3,3,4,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} + 5/54*Hb(3,3,4,1,plext.plext)*F^{-3*\sin x^2} + 5/54*Hb(3,3,4,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} - 5/54*Hb(3,3,4,1,plext.plext)*F^{-3*\sin x^4} - 1/54*Hb(3,4,8,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} + 1/27*Hb(3,4,8,1,plext.plext)*F^{-3*\sin x^2} + 1/27*Hb(3,4,8,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} - 1/27*Hb(3,4,8,1,plext.plext)*F^{-3*\sin x^4} + 1/48*Hb(4,3,3,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} - 1/24*Hb(4,3,3,1,plext.plext)*F^{-3*\sin x^2} - 1/24*Hb(4,3,3,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} + 1/24*Hb(4,3,3,1,plext.plext)*F^{-3*\sin x^4} - 1/24*Hb(4,3,8,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} + 1/12*Hb(4,3,8,1,plext.plext)*F^{-3*\sin x^2} + 1/12*Hb(4,3,8,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} - 1/12*Hb(4,3,8,1,plext.plext)*F^{-3*\sin x^4} + 13/432*Hb(4,8,8,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} - 13/216*Hb(4,8,8,1,plext.plext)*F^{-3*\sin x^2} - 13/216*Hb(4,8,8,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} + 13/216*Hb(4,8,8,1,plext.plext)*F^{-3*\sin x^4} - 1/24*Hb(8,1,6,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} + 1/16*H21b(4,3,3,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} - 1/8*H21b(4,3,3,1,plext.plext)*F^{-3*\sin x^2} - 1/8*H21b(4,3,3,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} + 1/8*H21b(4,3,3,1,plext.plext)*F^{-3*\sin x^4} - 1/8*H21b(4,3,8,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} + 1/4*H21b(4,3,8,1,plext.plext)*F^{-3*\sin x^2} + 1/4*H21b(4,3,8,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} - 1/4*H21b(4,3,8,1,plext.plext)*F^{-3*\sin x^4} + 1/16*H21b(4,8,8,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} - 1/8*H21b(4,8,8,1,plext.plext)*F^{-3*\sin x^2} - 1/8*H21b(4,8,8,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} + 1/8*H21b(4,8,8,1,plext.plext)*F^{-3*\sin x^4} +
\end{aligned}$$

$$\begin{aligned}
& 1/9*HH1b(3,3,4,1,plext.plext)*F^{-3}\sin x*\cos x*\sqrt{3} - 2/9*HH1b(3,3,4,1,plext.plext)*F^{-3}\sin x^2 \\
& - 2/9*HH1b(3,3,4,1,plext.plext)*F^{-3}\sin x^3*\cos x*\sqrt{3} + 2/9*HH1b(3,3,4,1,plext.plext)*F^{-3}\sin x^4 \\
& + 1/9*HH1b(4,3,8,1,plext.plext)*F^{-3}\sin x*\cos x*\sqrt{3} - 2/9*HH1b(4,3,8,1,plext.plext)*F^{-3}\sin x^2 \\
& - 2/9*HH1b(4,3,8,1,plext.plext)*F^{-3}\sin x^3*\cos x*\sqrt{3} + 2/9*HH1b(4,3,8,1,plext.plext)*F^{-3}\sin x^4 \\
& - 1/18*HH1b(4,8,8,1,plext.plext)*F^{-3}\sin x*\cos x*\sqrt{3} + 1/9*HH1b(4,8,8,1,plext.plext)*F^{-3}\sin x^2 \\
& + 1/9*HH1b(4,8,8,1,plext.plext)*F^{-3}\sin x^3*\cos x*\sqrt{3} - 1/9*HH1b(4,8,8,1,plext.plext)*F^{-3}\sin x^4 \\
& + mpp2^2*mkp2 * (- 1/6144/(mass(1))*\ln(1)^2F^{-3}\pi^{-4} + 5/12288/(mass(2))*\ln(1)^2F^{-3}\pi^{-4} \\
& + 1/8192/(mass(3))*\ln(3)^2F^{-3}\pi^{-4} + 1/9216/(mass(3))*\ln(3)^2F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} \\
& + 1/8192/(mass(8))*\ln(8)^2F^{-3}\pi^{-4} - 1/9216/(mass(8))*\ln(8)^2F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4}) \\
& + mpp2^3 * (+ 13/24576/(mass(1))*\ln(1)^2F^{-3}\pi^{-4} + 11/24576/(mass(2))*\ln(1)^2F^{-3}\pi^{-4} \\
& + 1/2048/(mass(3))*\ln(3)^2F^{-3}\pi^{-4} + 7/55296/(mass(3))*\ln(3)^2F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} \\
& - 1/2048/(mass(3))*\ln(3)^2F^{-3}\sin x^2*\pi^{-4} - 7/55296/(mass(8))*\ln(8)^2F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} \\
& + 1/2048/(mass(8))*\ln(8)^2F^{-3}\sin x^2*\pi^{-4}) \\
& + mud * (- 1/3*Hb(1,3,6,plext.plext)*F^{-3} + 2/9*Hb(1,3,6,plext.plext)*F^{-3}\sin x*\cos x*\sqrt{3} \\
& + 2/3*Hb(1,3,6,plext.plext)*F^{-3}\sin x^2 + 1/6*Hb(1,3,6,qext.qext)*F^{-3} - 1/9*Hb(1,3,6,qext.qext)*F^{-3}\sin x*\cos x*\sqrt{3} \\
& - 1/3*Hb(1,3,6,qext.qext)*F^{-3}\sin x^2 - 1/6*Hb(1,6,8,plext.plext)*F^{-3} + 1/9*Hb(1,6,8,plext.plext)*F^{-3}\sin x*\cos x*\sqrt{3} \\
& + 1/3*Hb(1,6,8,plext.plext)*F^{-3}\sin x^2 + 1/12*Hb(1,6,8,qext.qext)*F^{-3} - 1/18*Hb(1,6,8,qext.qext)*F^{-3}\sin x*\cos x*\sqrt{3} \\
& - 1/6*Hb(1,6,8,qext.qext)*F^{-3}\sin x^2 + 1/6*Hb(2,3,7,qext.qext)*F^{-3} - 1/9*Hb(2,3,7,qext.qext)*F^{-3}\sin x*\cos x*\sqrt{3} \\
& - 1/3*Hb(2,3,7,qext.qext)*F^{-3}\sin x^2 + 1/12*Hb(2,7,8,qext.qext)*F^{-3} - 1/18*Hb(2,7,8,qext.qext)*F^{-3}\sin x*\cos x*\sqrt{3} \\
& - 1/6*Hb(2,7,8,qext.qext)*F^{-3}\sin x^2 - 1/16*Hb(3,1,6,plext.plext)*F^{-3} + 1/12*Hb(3,1,6,plext.plext)*F^{-3}\sin x*\cos x*\sqrt{3} \\
& + 1/16*Hb(3,1,6,qext.qext)*F^{-3} - 1/12*Hb(3,1,6,qext.qext)*F^{-3}\sin x*\cos x*\sqrt{3} + 1/16*Hb(3,2,7,qext.qext)*F^{-3} \\
& - 1/12*Hb(3,2,7,qext.qext)*F^{-3}\sin x*\cos x*\sqrt{3} - 17/72*Hb(3,3,4,plext.plext)*F^{-3} + 1/54*Hb(3,3,4,plext.plext)*F^{-3}\sin x*\cos x*\sqrt{3} \\
& + 8/9*Hb(3,3,4,plext.plext)*F^{-3}\sin x^2 + 5/27*Hb(3,3,4,plext.plext)*F^{-3}\sin x^3*\cos x*\sqrt{3} - 5/9*Hb(3,3,4,plext.plext)*F^{-3}\sin x^4 \\
& + 17/72*Hb(3,3,4,qext.qext)*F^{-3} - 1/54*Hb(3,3,4,qext.qext)*F^{-3}\sin x*\cos x*\sqrt{3} - 8/9*Hb(3,3,4,qext.qext)*F^{-3}\sin x^2 \\
& - 5/27*Hb(3,3,4,qext.qext)*F^{-3}\sin x^3*\cos x*\sqrt{3} + 5/9*Hb(3,3,4,qext.qext)*F^{-3}\sin x^4 - 1/36*Hb(3,4,8,plext.plext)*F^{-3} \\
& - 1/27*Hb(3,4,8,plext.plext)*F^{-3}\sin x*\cos x*\sqrt{3} + 2/9*Hb(3,4,8,plext.plext)*F^{-3}\sin x^2 + 2/27*Hb(3,4,8,plext.plext)*F^{-3}\sin x^3*\cos x*\sqrt{3} \\
& - 2/9*Hb(3,4,8,plext.plext)*F^{-3}\sin x^4 + 1/36*Hb(3,4,8,qext.qext)*F^{-3} + 1/27*Hb(3,4,8,qext.qext)*F^{-3}\sin x*\cos x*\sqrt{3} \\
& - 2/9*Hb(3,4,8,qext.qext)*F^{-3}\sin x^2 - 2/27*Hb(3,4,8,qext.qext)*F^{-3}\sin x^3*\cos x*\sqrt{3} + 2/9*Hb(3,4,8,qext.qext)*F^{-3}\sin x^4 \\
& + 3/64*Hb(4,3,3,plext.plext)*F^{-3} - 3/16*Hb(4,3,3,plext.plext)*F^{-3}\sin x^2 - 1/24*Hb(4,3,3,plext.plext)*F^{-3}\sin x^3*\cos x*\sqrt{3} \\
& + 1/8*Hb(4,3,3,plext.plext)*F^{-3}\sin x^4 - 3/32*Hb(4,3,3,qext.qext)*F^{-3} + 3/8*Hb(4,3,3,qext.qext)*F^{-3}\sin x^2 + 1/12*Hb(4,3,3,qext.qext)*F^{-3}\sin x^3*\cos x*\sqrt{3} \\
& - 1/4*Hb(4,3,3,qext.qext)*F^{-3}\sin x^4 - 1/32*Hb(4,3,8,plext.plext)*F^{-3} - 1/24*Hb(4,3,8,plext.plext)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/4^*\text{Hb}(4,3,8,\text{plext.plext})^*F^{-3}*\sin x^2 + 1/12^*\text{Hb}(4,3,8,\text{plext.plext})^*F^{-3}*\sin^3*\cos x^*\sqrt{3} - 1/4^*\text{Hb}(4,3,8,\text{plext.plext})^*F^{-3}*\sin^4 + 1/16^*\text{Hb}(4,3,8,\text{qext.qext})^*F^{-3} + 1/12^*\text{Hb}(4,3,8,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/2^*\text{Hb}(4,3,8,\text{qext.qext})^*F^{-3}*\sin^2 - 1/6^*\text{Hb}(4,3,8,\text{qext.qext})^*F^{-3}*\sin^3*\cos x^*\sqrt{3} + 1/2^*\text{Hb}(4,3,8,\text{qext.qext})^*F^{-3}*\sin^4 - 25/576^*\text{Hb}(4,8,8,\text{plext.plext})^*F^{-3} + 19/216^*\text{Hb}(4,8,8,\text{plext.plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 13/144^*\text{Hb}(4,8,8,\text{plext.plext})^*F^{-3}*\sin^2 - 17/216^*\text{Hb}(4,8,8,\text{plext.plext})^*F^{-3}*\sin^3*\cos x^*\sqrt{3} + 17/72^*\text{Hb}(4,8,8,\text{plext.plext})^*F^{-3}*\sin^4 + 17/288^*\text{Hb}(4,8,8,\text{qext.qext})^*F^{-3} - 7/54^*\text{Hb}(4,8,8,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 11/72^*\text{Hb}(4,8,8,\text{qext.qext})^*F^{-3}*\sin^2 + 13/108^*\text{Hb}(4,8,8,\text{qext.qext})^*F^{-3}*\sin^3*\cos x^*\sqrt{3} - 13/36^*\text{Hb}(4,8,8,\text{qext.qext})^*F^{-3}*\sin^4 + 1/24^*\text{Hb}(6,1,3,\text{plext.plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/8^*\text{Hb}(6,1,3,\text{plext.plext})^*F^{-3}*\sin^2 - 1/24^*\text{Hb}(6,1,3,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/8^*\text{Hb}(6,1,3,\text{qext.qext})^*F^{-3}*\sin^2 - 1/8^*\text{Hb}(6,1,8,\text{plext.plext})^*F^{-3} - 1/24^*\text{Hb}(6,1,8,\text{plext.plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/8^*\text{Hb}(6,1,8,\text{plext.plext})^*F^{-3}*\sin^2 + 1/8^*\text{Hb}(6,1,8,\text{qext.qext})^*F^{-3} + 1/24^*\text{Hb}(6,1,8,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/8^*\text{Hb}(6,1,8,\text{qext.qext})^*F^{-3}*\sin^2 + 1/8^*\text{Hb}(6,1,8,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/8^*\text{Hb}(7,2,3,\text{qext.qext})^*F^{-3} - 1/24^*\text{Hb}(7,2,3,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/8^*\text{Hb}(7,2,3,\text{qext.qext})^*F^{-3}*\sin^2 + 1/8^*\text{Hb}(7,2,8,\text{qext.qext})^*F^{-3} + 1/24^*\text{Hb}(7,2,8,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/8^*\text{Hb}(7,2,8,\text{qext.qext})^*F^{-3}*\sin^2 - 1/8^*\text{Hb}(7,4,6,\text{plext.plext})^*F^{-3} + 1/8^*\text{Hb}(7,5,6,\text{qext.qext})^*F^{-3} - 1/16^*\text{Hb}(8,1,6,\text{plext.plext})^*F^{-3} - 1/12^*\text{Hb}(8,1,6,\text{plext.plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/16^*\text{Hb}(8,1,6,\text{qext.qext})^*F^{-3} + 1/12^*\text{Hb}(8,1,6,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/16^*\text{Hb}(8,2,7,\text{qext.qext})^*F^{-3} + 1/12^*\text{Hb}(8,2,7,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/16^*\text{H21b}(1,3,6,\text{plext.plext})^*F^{-3} + 1/8^*\text{H21b}(1,3,6,\text{plext.plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/8^*\text{H21b}(1,3,6,\text{plext.plext})^*F^{-3}*\sin^2 + 3/32^*\text{H21b}(1,3,6,\text{qext.qext})^*F^{-3} - 1/16^*\text{H21b}(1,3,6,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/16^*\text{H21b}(1,3,6,\text{qext.qext})^*F^{-3}*\sin^2 + 3/16^*\text{H21b}(1,6,8,\text{plext.plext})^*F^{-3} - 1/8^*\text{H21b}(1,6,8,\text{plext.plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/8^*\text{H21b}(1,6,8,\text{plext.plext})^*F^{-3}*\sin^2 - 3/32^*\text{H21b}(1,6,8,\text{qext.qext})^*F^{-3} + 1/16^*\text{H21b}(1,6,8,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/16^*\text{H21b}(1,6,8,\text{qext.qext})^*F^{-3}*\sin^2 + 3/32^*\text{H21b}(2,3,7,\text{qext.qext})^*F^{-3} - 1/16^*\text{H21b}(2,3,7,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/16^*\text{H21b}(2,3,7,\text{qext.qext})^*F^{-3}*\sin^2 - 3/32^*\text{H21b}(2,7,8,\text{qext.qext})^*F^{-3} + 1/16^*\text{H21b}(2,7,8,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/16^*\text{H21b}(2,7,8,\text{qext.qext})^*F^{-3}*\sin^2 - 3/16^*\text{H21b}(3,1,6,\text{plext.plext})^*F^{-3} + 1/8^*\text{H21b}(3,1,6,\text{plext.plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/8^*\text{H21b}(3,1,6,\text{plext.plext})^*F^{-3}*\sin^2 + 3/32^*\text{H21b}(3,1,6,\text{qext.qext})^*F^{-3} - 1/16^*\text{H21b}(3,1,6,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/16^*\text{H21b}(3,1,6,\text{qext.qext})^*F^{-3}*\sin^2 + 3/32^*\text{H21b}(3,2,7,\text{qext.qext})^*F^{-3} - 1/16^*\text{H21b}(3,2,7,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/16^*\text{H21b}(3,2,7,\text{qext.qext})^*F^{-3}*\sin^2 + 9/32^*\text{H21b}(4,3,3,\text{plext.plext})^*F^{-3} - 9/8^*\text{H21b}(4,3,3,\text{plext.plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/4^*\text{H21b}(4,3,3,\text{plext.plext})^*F^{-3}*\sin^2 + 1/4^*\text{H21b}(4,3,3,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/4^*\text{H21b}(4,3,3,\text{qext.qext})^*F^{-3}*\sin^2 - 3/16^*\text{H21b}(4,3,8,\text{plext.plext})^*F^{-3} - 1/4^*\text{H21b}(4,3,8,\text{plext.plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/2^*\text{H21b}(4,3,8,\text{plext.plext})^*F^{-3}*\sin^2 + 1/2^*\text{H21b}(4,3,8,\text{plext.plext})^*F^{-3}*\sin^3*\cos x^*\sqrt{3} - 3/2^*\text{H21b}(4,3,8,\text{plext.plext})^*F^{-3}*\sin^4 + 3/16^*\text{H21b}(4,3,8,\text{qext.qext})^*F^{-3} + 1/4^*\text{H21b}(4,3,8,\text{qext.qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/2^*\text{H21b}(4,3,8,\text{qext.qext})^*F^{-3}*\sin^2 - 1/2^*\text{H21b}(4,3,8,\text{qext.qext})^*F^{-3}*\sin^3*\cos x^*\sqrt{3} + 3/2^*\text{H21b}(4,3,8,\text{qext.qext})^*F^{-3}*\sin^4 - 3/32^*\text{H21b}(4,8,8,\text{plext.plext})^*F^{-3} + 1/4^*\text{H21b}(4,8,8,\text{plext.plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/8^*\text{H21b}(4,8,8,\text{plext.plext})^*F^{-3}*\sin^2 - 1/4^*\text{H21b}(4,8,8,\text{plext.plext})^*F^{-3}*\sin^3*\cos x^*\sqrt{3} + 3/4^*\text{H21b}(4,8,8,\text{plext.plext})^*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^4 + 3/32^*H21b(4,8,8,qext.qext)^*F^{-3} - 1/4^*H21b(4,8,8,qext.qext)^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 3/8^*H21b(4,8,8,qext.qext)^*F^{-3}*\sin x^2 + 1/4^*H21b(4,8,8,qext.qext)^*F^{-} \\
& 3^*\sin x^3*\cos x^*\sqrt{3} - 3/4^*H21b(4,8,8,qext.qext)^*F^{-3}*\sin x^4 + 3/8^*H21b(6,1,3,plext.plext)^*F^{-} \\
& 3 - 1/4^*H21b(6,1,3,plext.plext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/4^*H21b(6,1,3,plext.plext)^*F^{-} \\
& 3^*\sin x^2 - 3/16^*H21b(6,1,3,qext.qext)^*F^{-3} + 1/8^*H21b(6,1,3,qext.qext)^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 3/8^*H21b(6,1,3,qext.qext)^*F^{-3}*\sin x^2 - 3/8^*H21b(6,1,8,plext.plext)^*F^{-} \\
& 3 + 1/4^*H21b(6,1,8,plext.plext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/4^*H21b(6,1,8,plext.plext)^*F^{-} \\
& 3^*\sin x^2 + 3/16^*H21b(6,1,8,qext.qext)^*F^{-3} - 1/8^*H21b(6,1,8,qext.qext)^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 3/8^*H21b(6,1,8,qext.qext)^*F^{-3}*\sin x^2 - 3/16^*H21b(7,2,3,qext.qext)^*F^{-} \\
& 3 + 1/8^*H21b(7,2,3,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/8^*H21b(7,2,3,qext.qext)^*F^{-} \\
& 3^*\sin x^2 + 3/16^*H21b(7,2,8,qext.qext)^*F^{-3} - 1/8^*H21b(7,2,8,qext.qext)^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 3/8^*H21b(7,2,8,qext.qext)^*F^{-3}*\sin x^2 + 3/16^*H21b(8,1,6,plext.plext)^*F^{-} \\
& 3 - 1/8^*H21b(8,1,6,plext.plext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/8^*H21b(8,1,6,plext.plext)^*F^{-} \\
& 3^*\sin x^2 - 3/32^*H21b(8,1,6,qext.qext)^*F^{-3} + 1/16^*H21b(8,1,6,qext.qext)^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 3/16^*H21b(8,1,6,qext.qext)^*F^{-3}*\sin x^2 - 3/32^*H21b(8,2,7,qext.qext)^*F^{-} \\
& 3 + 1/16^*H21b(8,2,7,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/16^*H21b(8,2,7,qext.qext)^*F^{-} \\
& 3^*\sin x^2 + 1/2^*HH1b(1,3,6,plext.plext)^*F^{-3} - 1/3^*HH1b(1,3,6,plext.plext)^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - HH1b(1,3,6,plext.plext)^*F^{-3}*\sin x^2 - 1/4^*HH1b(1,3,6,qext.qext)^*F^{-} \\
& 3 + 1/6^*HH1b(1,3,6,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/2^*HH1b(1,3,6,qext.qext)^*F^{-} \\
& 3^*\sin x^2 - 1/4^*HH1b(2,3,7,qext.qext)^*F^{-3} + 1/6^*HH1b(2,3,7,qext.qext)^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/2^*HH1b(2,3,7,qext.qext)^*F^{-3}*\sin x^2 + 1/2^*HH1b(3,1,6,plext.plext)^*F^{-} \\
& 3 - 1/3^*HH1b(3,1,6,plext.plext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - HH1b(3,1,6,plext.plext)^*F^{-} \\
& 3^*\sin x^2 - 1/4^*HH1b(3,1,6,qext.qext)^*F^{-3} + 1/6^*HH1b(3,1,6,qext.qext)^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/2^*HH1b(3,1,6,qext.qext)^*F^{-3}*\sin x^2 - 1/4^*HH1b(3,2,7,qext.qext)^*F^{-} \\
& 3 + 1/6^*HH1b(3,2,7,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/2^*HH1b(3,2,7,qext.qext)^*F^{-} \\
& 3^*\sin x^2 + 7/12^*HH1b(3,3,4,plext.plext)^*F^{-3} - 1/18^*HH1b(3,3,4,plext.plext)^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 13/6^*HH1b(3,3,4,plext.plext)^*F^{-3}*\sin x^2 - 4/9^*HH1b(3,3,4,plext.plext)^*F^{-} \\
& 3^*\sin x^3*\cos x^*\sqrt{3} + 4/3^*HH1b(3,3,4,plext.plext)^*F^{-3}*\sin x^4 - 7/12^*HH1b(3,3,4,qext.qext)^*F^{-} \\
& 3 + 1/18^*HH1b(3,3,4,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 13/6^*HH1b(3,3,4,qext.qext)^*F^{-} \\
& 3^*\sin x^2 + 4/9^*HH1b(3,3,4,qext.qext)^*F^{-3}*\sin x^3*\cos x^*\sqrt{3} - 4/3^*HH1b(3,3,4,qext.qext)^*F^{-} \\
& 3^*\sin x^4 + 1/6^*HH1b(4,3,8,plext.plext)^*F^{-3} + 2/9^*HH1b(4,3,8,plext.plext)^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 4/3^*HH1b(4,3,8,plext.plext)^*F^{-3}*\sin x^2 - 4/9^*HH1b(4,3,8,plext.plext)^*F^{-} \\
& 3^*\sin x^3*\cos x^*\sqrt{3} + 4/3^*HH1b(4,3,8,plext.plext)^*F^{-3}*\sin x^4 - 1/6^*HH1b(4,3,8,qext.qext)^*F^{-} \\
& 3 - 2/9^*HH1b(4,3,8,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 4/3^*HH1b(4,3,8,qext.qext)^*F^{-} \\
& 3^*\sin x^2 + 4/9^*HH1b(4,3,8,qext.qext)^*F^{-3}*\sin x^3*\cos x^*\sqrt{3} - 4/3^*HH1b(4,3,8,qext.qext)^*F^{-} \\
& 3^*\sin x^4 + 1/8^*HH1b(4,8,8,plext.plext)^*F^{-3} - 1/4^*HH1b(4,8,8,plext.plext)^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/4^*HH1b(4,8,8,plext.plext)^*F^{-3}*\sin x^2 + 2/9^*HH1b(4,8,8,plext.plext)^*F^{-} \\
& 3^*\sin x^3*\cos x^*\sqrt{3} - 2/3^*HH1b(4,8,8,plext.plext)^*F^{-3}*\sin x^4 - 1/8^*HH1b(4,8,8,qext.qext)^*F^{-} \\
& 3 + 1/4^*HH1b(4,8,8,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/4^*HH1b(4,8,8,qext.qext)^*F^{-} \\
& 3^*\sin x^2 - 2/9^*HH1b(4,8,8,qext.qext)^*F^{-3}*\sin x^3*\cos x^*\sqrt{3} + 2/3^*HH1b(4,8,8,qext.qext)^*F^{-} \\
& 3^*\sin x^4 + 1/2^*HH1b(6,1,8,plext.plext)^*F^{-3} - 1/3^*HH1b(6,1,8,plext.plext)^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - HH1b(6,1,8,plext.plext)^*F^{-3}*\sin x^2 - 1/4^*HH1b(6,1,8,qext.qext)^*F^{-} \\
& 3 + 1/6^*HH1b(6,1,8,qext.qext)^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/2^*HH1b(6,1,8,qext.qext)^*F^{-} \\
& 3^*\sin x^2 - 1/4^*HH1b(7,2,8,qext.qext)^*F^{-3} + 1/6^*HH1b(7,2,8,qext.qext)^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/2^*HH1b(7,2,8,qext.qext)^*F^{-3}*\sin x^2)
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}^* \text{mkp2} * (- 89/49152 * F^{-3} \pi^{-4} - 37/73728 * F^{-3} \pi^{-2} + 3/2 * F^{-3} \pi^{-2} * L8r + 2 * F^{-3} \pi^{-2} * L7r + 7/4 * F^{-3} \pi^{-2} * L6r - 5/12 * F^{-3} \pi^{-2} * L5r \\
& - 7/8 * F^{-3} \pi^{-2} * L4r + 37/432 * F^{-3} \pi^{-2} * L3r + 13/36 * F^{-3} \pi^{-2} * L2r + 16 * F^{-3} * L4r * L5r + 32 * F^{-3} * L4r^2 + 16 * F^{-3} * CC17 - 32 * F^{-3} * CC16 - \\
& 8 * F^{-3} * CC15 - 16 * F^{-3} * CC14 + 1/1536 * \ln(3) * F^{-3} \pi^{-4} - 1/12 * \ln(3) * F^{-3} \pi^{-2} * L8r + 1/4 * \ln(3) * F^{-3} \pi^{-2} * L7r - 1/4 * \ln(3) * F^{-3} \pi^{-2} * L6r + \\
& 13/144 * \ln(3) * F^{-3} \pi^{-2} * L5r + 3/16 * \ln(3) * F^{-3} \pi^{-2} * L4r + 1/24 * \ln(3) * F^{-3} \pi^{-2} * L3r - 1/12288 * \ln(3) * F^{-3} \sin x * \cos x * \sqrt{3} \pi^{-4} + 7/9 * \ln(3) * F^{-3} \sin x * \cos x * \sqrt{3} \pi^{-2} * L8r + 5/2 * \ln(3) * F^{-3} \sin x * \cos x * \sqrt{3} \pi^{-2} * L7r + \\
& 5/432 * \ln(3) * F^{-3} \sin x * \cos x * \sqrt{3} \pi^{-2} * L5r - 2/9 * \ln(3) * F^{-3} \sin x * \cos x * \sqrt{3} \pi^{-2} * L4r + 1/8 * \ln(3) * F^{-3} \sin x * \cos x * \sqrt{3} \pi^{-2} * L3r + 1/9 * \ln(3) * F^{-3} \sin x * \cos x * \sqrt{3} \pi^{-2} * L2r + 4/9 * \ln(3) * F^{-3} \sin x * \cos x * \sqrt{3} \pi^{-2} * L1r \\
& - 41/18432 * \ln(3) * F^{-3} \sin x^2 \pi^{-4} + 17/9 * \ln(3) * F^{-3} \sin x^2 \pi^{-2} * L8r + 11/3 * \ln(3) * F^{-3} \sin x^2 \pi^{-2} * L7r + \ln(3) * F^{-3} \sin x^2 \pi^{-2} * L6r - \\
& 23/72 * \ln(3) * F^{-3} \sin x^2 \pi^{-2} * L5r - 11/36 * \ln(3) * F^{-3} \sin x^2 \pi^{-2} * L4r - 7/18 * \ln(3) * F^{-3} \sin x^2 \pi^{-2} * L3r - 2/9 * \ln(3) * F^{-3} \sin x^2 \pi^{-2} * L2r - \\
& 8/9 * \ln(3) * F^{-3} \sin x^2 \pi^{-2} * L1r - 8/9 * \ln(3) * F^{-3} \sin x^3 \cos x * \sqrt{3} \pi^{-2} * L8r - 8/3 * \ln(3) * F^{-3} \sin x^3 \cos x * \sqrt{3} \pi^{-2} * L7r - 8/9 * \ln(3) * F^{-3} \sin x^4 \pi^{-2} * L8r - 8/3 * \ln(3) * F^{-3} \sin x^4 \pi^{-2} * L7r + 13/24576 * \ln(3)^2 * F^{-3} \pi^{-4} - 11/110592 * \ln(3)^2 * F^{-3} \sin x^2 \cos x * \sqrt{3} \pi^{-4} - 65/55296 * \ln(3)^2 * F^{-3} \sin x^4 \pi^{-4} + 1/864 * \ln(3)^2 * F^{-3} \sin x^5 \cos x * \sqrt{3} \pi^{-4} + 1/864 * \ln(3)^2 * F^{-3} \sin x^6 \pi^{-4} - 49/36864 * \ln(3) * \ln(4) * F^{-3} \pi^{-4} + 41/55296 * \ln(3) * \ln(4) * F^{-3} \sin x^2 \cos x * \sqrt{3} \pi^{-4} + 5/9216 * \ln(3) * \ln(4) * F^{-3} \sin x^2 \pi^{-4} + 1/3456 * \ln(3) * \ln(4) * F^{-3} \sin x^3 \cos x * \sqrt{3} \pi^{-4} + 1/384 * \ln(3) * \ln(4) * F^{-3} \sin x^4 \pi^{-4} - 115/36864 * \ln(3) * \ln(6) * F^{-3} \sin x^2 \cos x * \sqrt{3} \pi^{-4} + 5/2048 * \ln(3) * \ln(6) * F^{-3} \sin x^2 \pi^{-4} + 5/3456 * \ln(3) * \ln(6) * F^{-3} \sin x^3 \cos x * \sqrt{3} \pi^{-4} - 1/1152 * \ln(3) * \ln(6) * F^{-3} \sin x^4 \pi^{-4} - 1/4096 * \ln(3) * \ln(8) * F^{-3} \pi^{-4} - 13/27648 * \ln(3) * \ln(8) * F^{-3} \sin x^2 \cos x * \sqrt{3} \pi^{-4} - 5/1536 * \ln(3) * \ln(8) * F^{-3} \sin x^2 \pi^{-4} + 35/13824 * \ln(3) * \ln(8) * F^{-3} \sin x^3 \cos x * \sqrt{3} \pi^{-4} + 77/13824 * \ln(3) * \ln(8) * F^{-3} \sin x^4 \pi^{-4} - 1/432 * \ln(3) * \ln(8) * F^{-3} \sin x^5 \cos x * \sqrt{3} \pi^{-4} - 1/432 * \ln(3) * \ln(8) * F^{-3} \sin x^6 \pi^{-4} - 5/6144 * \ln(4) * F^{-3} \pi^{-4} + 1/2 * \ln(4) * F^{-3} \pi^{-2} * L6r - 3/8 * \ln(4) * F^{-3} \pi^{-2} * L4r - 1/9216 * \ln(4) * F^{-3} \sin x^2 \cos x * \sqrt{3} \pi^{-4} + 1/1536 * \ln(4) * F^{-3} \sin x^2 \pi^{-4} + 41/36864 * \ln(4) * \ln(8) * F^{-3} \pi^{-4} - 41/55296 * \ln(4) * \ln(8) * F^{-3} \sin x^2 \cos x * \sqrt{3} \pi^{-4} - 5/9216 * \ln(4) * \ln(8) * F^{-3} \sin x^2 \pi^{-4} - 1/3456 * \ln(4) * \ln(8) * F^{-3} \sin x^3 \cos x * \sqrt{3} \pi^{-4} - 1/384 * \ln(4) * \ln(8) * F^{-3} \sin x^4 \pi^{-4} + 1/12288 * \ln(6) * F^{-3} \pi^{-4} + 1/2 * \ln(6) * F^{-3} \pi^{-2} * L8r + 3/4 * \ln(6) * F^{-3} \pi^{-2} * L6r - 3/16 * \ln(6) * F^{-3} \pi^{-2} * L5r + 7/16 * \ln(6) * F^{-3} \pi^{-2} * L4r - 5/8 * \ln(6) * F^{-3} \pi^{-2} * L3r - 1/2 * \ln(6) * F^{-3} \pi^{-2} * L2r - 2 * \ln(6) * F^{-3} \pi^{-2} * L1r + 1/9216 * \ln(6) * F^{-3} \sin x^2 \cos x * \sqrt{3} \pi^{-4} - 1/1536 * \ln(6) * F^{-3} \sin x^2 \pi^{-4} + 1/4096 * \ln(6)^2 * F^{-3} \pi^{-4} + 1/512 * \ln(6) * \ln(8) * F^{-3} \pi^{-4} + 115/36864 * \ln(6) * \ln(8) * F^{-3} \sin x^2 \cos x * \sqrt{3} \pi^{-4} - 5/2048 * \ln(6) * \ln(8) * F^{-3} \sin x^2 \pi^{-4} - 5/3456 * \ln(6) * \ln(8) * F^{-3} \sin x^3 \cos x * \sqrt{3} \pi^{-4} + 1/1152 * \ln(6) * \ln(8) * F^{-3} \sin x^4 \pi^{-4} - 29/18432 * \ln(8) * F^{-3} \pi^{-4} + 13/12 * \ln(8) * F^{-3} \pi^{-2} * L8r + 7/4 * \ln(8) * F^{-3} \pi^{-2} * L7r + 3/4 * \ln(8) * F^{-3} \pi^{-2} * L6r - 11/48 * \ln(8) * F^{-3} \pi^{-2} * L5r - 17/144 * \ln(8) * F^{-3} \pi^{-2} * L4r - 25/72 * \ln(8) * F^{-3} \pi^{-2} * L3r - 2/9 * \ln(8) * F^{-3} \pi^{-2} * L2r - 8/9 * \ln(8) * F^{-3} \pi^{-2} * L1r
\end{aligned}$$

$$\begin{aligned}
& 3^{\pi^{-2}L1r} + 1/12288 \ln(8) F^{-3} \sin x \cos x \sqrt{3}^{\pi^{-4}} - 7/9 \ln(8) F^{-} \\
& 3^{\sin x \cos x \sqrt{3}^{\pi^{-2}L8r}} - 5/2 \ln(8) F^{-3} \sin x \cos x \sqrt{3}^{\pi^{-2}L7r} - \\
& 5/432 \ln(8) F^{-3} \sin x \cos x \sqrt{3}^{\pi^{-2}L5r} + 2/9 \ln(8) F^{-3} \sin x \cos x \sqrt{3}^{\pi^{-} \\
& 2^*L4r} - 1/8 \ln(8) F^{-3} \sin x \cos x \sqrt{3}^{\pi^{-2}L3r} - 1/9 \ln(8) F^{-3} \sin x \cos x \sqrt{3}^{\pi^{-} \\
& 2^*L2r} - 4/9 \ln(8) F^{-3} \sin x \cos x \sqrt{3}^{\pi^{-2}L1r} + 41/18432 \ln(8) F^{-} \\
& 3^{\sin x^2 \pi^{-4}} - 17/9 \ln(8) F^{-3} \sin x^2 \pi^{-2} L8r} - 11/3 \ln(8) F^{-} \\
& 3^{\sin x^2 \pi^{-2} L7r} - \ln(8) F^{-3} \sin x^2 \pi^{-2} L6r} + 23/72 \ln(8) F^{-} \\
& 3^{\sin x^2 \pi^{-2} L5r} + 11/36 \ln(8) F^{-3} \sin x^2 \pi^{-2} L4r} + 7/18 \ln(8) F^{-} \\
& 3^{\sin x^2 \pi^{-2} L3r} + 2/9 \ln(8) F^{-3} \sin x^2 \pi^{-2} L2r} + 8/9 \ln(8) F^{-} \\
& 3^{\sin x^2 \pi^{-2} L1r} + 8/9 \ln(8) F^{-3} \sin x^3 \cos x \sqrt{3}^{\pi^{-2} L8r} + \\
& 8/3 \ln(8) F^{-3} \sin x^3 \cos x \sqrt{3}^{\pi^{-2} L7r} + 8/9 \ln(8) F^{-3} \sin x^4 \pi^{-} \\
& 2^*L8r} + 8/3 \ln(8) F^{-3} \sin x^4 \pi^{-2} L7r} - 133/73728 \ln(8)^2 F^{-3} \pi^{-4} \\
& + 7/12288 \ln(8)^2 F^{-3} \sin x \cos x \sqrt{3}^{\pi^{-4}} + 245/55296 \ln(8)^2 F^{-} \\
& 3^{\sin x^2 \pi^{-4}} - 17/9216 \ln(8)^2 F^{-3} \sin x^3 \cos x \sqrt{3}^{\pi^{-4}} - 31/9216 \ln(8)^2 F^{-} \\
& 3^{\sin x^4 \pi^{-4}} + 1/864 \ln(8)^2 F^{-3} \sin x^5 \cos x \sqrt{3}^{\pi^{-4}} + 1/864 \ln(8)^2 F^{-} \\
& 3^{\sin x^6 \pi^{-4}} - 1/3 \text{Hb}(1,3,6,1, \text{plext.plext}) F^{-3} + 1/3 \text{Hb}(1,3,6,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x \cos x \sqrt{3}} + 2/3 \text{Hb}(1,3,6,1, \text{plext.plext}) F^{-3} \sin x^2} - 1/6 \text{Hb}(1,6,8,1, \text{plext.plext}) F^{-} \\
& 3 + 1/6 \text{Hb}(1,6,8,1, \text{plext.plext}) F^{-3} \sin x \cos x \sqrt{3} + 1/3 \text{Hb}(1,6,8,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x^2} - 1/16 \text{Hb}(3,1,6,1, \text{plext.plext}) F^{-3} + 1/12 \text{Hb}(3,1,6,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x \cos x \sqrt{3}} - 43/144 \text{Hb}(3,3,4,1, \text{plext.plext}) F^{-3} + 7/36 \text{Hb}(3,3,4,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x \cos x \sqrt{3}} + 61/54 \text{Hb}(3,3,4,1, \text{plext.plext}) F^{-3} \sin x^2} - 20/27 \text{Hb}(3,3,4,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x^4} - 1/24 \text{Hb}(3,4,8,1, \text{plext.plext}) F^{-3} + 8/27 \text{Hb}(3,4,8,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x^2} - 8/27 \text{Hb}(3,4,8,1, \text{plext.plext}) F^{-3} \sin x^4} + 7/64 \text{Hb}(4,3,3,1, \text{plext.plext}) F^{-} \\
& 3 - 1/16 \text{Hb}(4,3,3,1, \text{plext.plext}) F^{-3} \sin x \cos x \sqrt{3} - 11/24 \text{Hb}(4,3,3,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x^2} + 1/3 \text{Hb}(4,3,3,1, \text{plext.plext}) F^{-3} \sin x^4} - 3/32 \text{Hb}(4,3,8,1, \text{plext.plext}) F^{-} \\
& 3 + 2/3 \text{Hb}(4,3,8,1, \text{plext.plext}) F^{-3} \sin x^2} - 2/3 \text{Hb}(4,3,8,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x^4} - 29/576 \text{Hb}(4,8,8,1, \text{plext.plext}) F^{-3} + 17/144 \text{Hb}(4,8,8,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x \cos x \sqrt{3}} - 53/216 \text{Hb}(4,8,8,1, \text{plext.plext}) F^{-3} \sin x^2} + 13/27 \text{Hb}(4,8,8,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x^4} + 1/16 \text{Hb}(6,1,3,1, \text{plext.plext}) F^{-3} - 1/24 \text{Hb}(6,1,3,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x \cos x \sqrt{3}} - 1/4 \text{Hb}(6,1,3,1, \text{plext.plext}) F^{-3} \sin x^2} - 3/16 \text{Hb}(6,1,8,1, \text{plext.plext}) F^{-} \\
& 3 + 1/24 \text{Hb}(6,1,8,1, \text{plext.plext}) F^{-3} \sin x \cos x \sqrt{3} + 1/4 \text{Hb}(6,1,8,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x^2} - 1/8 \text{Hb}(7,4,6,1, \text{plext.plext}) F^{-3} - 1/16 \text{Hb}(8,1,6,1, \text{plext.plext}) F^{-} \\
& 3 - 1/12 \text{Hb}(8,1,6,1, \text{plext.plext}) F^{-3} \sin x \cos x \sqrt{3} - 3/16 \text{H21b}(1,3,6,1, \text{plext.plext}) F^{-} \\
& 3 + 3/16 \text{H21b}(1,3,6,1, \text{plext.plext}) F^{-3} \sin x \cos x \sqrt{3} + 3/8 \text{H21b}(1,3,6,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x^2} + 3/16 \text{H21b}(1,6,8,1, \text{plext.plext}) F^{-3} - 3/16 \text{H21b}(1,6,8,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x \cos x \sqrt{3}} - 3/8 \text{H21b}(1,6,8,1, \text{plext.plext}) F^{-3} \sin x^2} - 3/16 \text{H21b}(3,1,6,1, \text{plext.plext}) F^{-} \\
& 3 + 3/16 \text{H21b}(3,1,6,1, \text{plext.plext}) F^{-3} \sin x \cos x \sqrt{3} + 3/8 \text{H21b}(3,1,6,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x^2} + 21/64 \text{H21b}(4,3,3,1, \text{plext.plext}) F^{-3} - 3/16 \text{H21b}(4,3,3,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x \cos x \sqrt{3}} - 11/8 \text{H21b}(4,3,3,1, \text{plext.plext}) F^{-3} \sin x^2} + \text{H21b}(4,3,3,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x^4} - 9/32 \text{H21b}(4,3,8,1, \text{plext.plext}) F^{-3} + 2 \text{H21b}(4,3,8,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x^2} - 2 \text{H21b}(4,3,8,1, \text{plext.plext}) F^{-3} \sin x^4} - 3/64 \text{H21b}(4,8,8,1, \text{plext.plext}) F^{-} \\
& 3 + 3/16 \text{H21b}(4,8,8,1, \text{plext.plext}) F^{-3} \sin x \cos x \sqrt{3} - 5/8 \text{H21b}(4,8,8,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x^2} + \text{H21b}(4,8,8,1, \text{plext.plext}) F^{-3} \sin x^4} + 3/8 \text{H21b}(6,1,3,1, \text{plext.plext}) F^{-} \\
& 3 - 3/8 \text{H21b}(6,1,3,1, \text{plext.plext}) F^{-3} \sin x \cos x \sqrt{3} - 3/4 \text{H21b}(6,1,3,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x^2} - 3/8 \text{H21b}(6,1,8,1, \text{plext.plext}) F^{-3} + 3/8 \text{H21b}(6,1,8,1, \text{plext.plext}) F^{-} \\
& 3^{\sin x \cos x \sqrt{3}} + 3/4 \text{H21b}(6,1,8,1, \text{plext.plext}) F^{-3} \sin x^2} + 3/16 \text{H21b}(8,1,6,1, \text{plext.plext}) F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3 - 3/16 * H21b(8,1,6,1,plext.plect) * F^{-3} * \sin x * \cos x * \sqrt{3} - 3/8 * H21b(8,1,6,1,plext.plect) * F^{-3} * \sin x^2 + 1/2 * HH1b(1,3,6,1,plext.plect) * F^{-3} - 1/2 * HH1b(1,3,6,1,plext.plect) * F^{-3} * \sin x * \cos x * \sqrt{3} - HH1b(1,3,6,1,plext.plect) * F^{-3} * \sin x^2 + 1/2 * HH1b(3,1,6,1,plext.plect) * F^{-3} - 1/2 * HH1b(3,1,6,1,plext.plect) * F^{-3} * \sin x * \cos x * \sqrt{3} - HH1b(3,1,6,1,plext.plect) * F^{-3} * \sin x^2 + 3/4 * HH1b(3,3,4,1,plext.plect) * F^{-3} - 1/2 * HH1b(3,3,4,1,plext.plect) * F^{-3} * \sin x * \cos x * \sqrt{3} - 25/9 * HH1b(3,3,4,1,plext.plect) * F^{-3} * \sin x^2 + 16/9 * HH1b(3,3,4,1,plext.plect) * F^{-3} * \sin x^4 + 1/4 * HH1b(4,3,8,1,plext.plect) * F^{-3} - 16/9 * HH1b(4,3,8,1,plext.plect) * F^{-3} * \sin x^2 + 16/9 * HH1b(4,3,8,1,plext.plect) * F^{-3} * \sin x^4 + 1/8 * HH1b(4,8,8,1,plext.plect) * F^{-3} - 1/4 * HH1b(4,8,8,1,plext.plect) * F^{-3} * \sin x * \cos x * \sqrt{3} + 7/18 * HH1b(4,8,8,1,plext.plect) * F^{-3} * \sin x^2 - 8/9 * HH1b(4,8,8,1,plext.plect) * F^{-3} * \sin x^4 + 1/2 * HH1b(6,1,8,1,plext.plect) * F^{-3} - 1/2 * HH1b(6,1,8,1,plext.plect) * F^{-3} * \sin x * \cos x * \sqrt{3} - HH1b(6,1,8,1,plext.plect) * F^{-3} * \sin x^2) \\
& + mud * mkp2^2 * (+ 5/18432 / (mass(3)) * \ln(3)^2 * F^{-3} * \pi^{-4} + 7/13824 / (mass(3)) * \ln(3)^2 * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} - 3/1024 / (mass(3)) * \ln(3)^2 * F^{-3} * \sin x^2 * \pi^{-4} + 71/368640 / (mass(4)) * \ln(4)^2 * F^{-3} * \pi^{-4} - 161/368640 / (mass(5)) * \ln(4)^2 * F^{-3} * \pi^{-4} - 9/8192 / (mass(6)) * \ln(6)^2 * F^{-3} * \pi^{-4} - 11/8192 / (mass(7)) * \ln(6)^2 * F^{-3} * \pi^{-4} - 49/18432 / (mass(8)) * \ln(8)^2 * F^{-3} * \pi^{-4} - 7/13824 / (mass(8)) * \ln(8)^2 * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} + 3/1024 / (mass(8)) * \ln(8)^2 * F^{-3} * \sin x^2 * \pi^{-4}) \\
& + mud * mpp2 * (+ 7/24576 * F^{-3} * \pi^{-4} - 1/9216 * F^{-3} * \pi^{-2} - F^{-3} * \pi^{-2} * L8r - 2 * F^{-3} * \pi^{-2} * L7r + 1/2 * F^{-3} * \pi^{-2} * L6r + 1/6 * F^{-3} * \pi^{-2} * L5r - 1/4 * F^{-3} * \pi^{-2} * L4r + 1/216 * F^{-3} * \pi^{-2} * L3r - 1/36 * F^{-3} * \pi^{-2} * L2r + 16 * F^{-3} * L4r^2 - 16 * F^{-3} * CC17 + 16 * F^{-3} * CC16 + 16 * F^{-3} * CC14 - 1/1024 * \ln(1) * F^{-3} * \pi^{-4} + 1/4 * \ln(1) * F^{-3} * \pi^{-2} * L6r - 3/16 * \ln(1) * F^{-3} * \pi^{-2} * L4r + 1/2304 * \ln(1) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} - 1/8192 * \ln(1) * \ln(3) * F^{-3} * \pi^{-4} + 11/36864 * \ln(1) * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} - 5/36864 * \ln(1) * \ln(3) * F^{-3} * \sin x^2 * \pi^{-4} - 1/4608 * \ln(1) * \ln(3) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-4} - 1/4608 * \ln(1) * \ln(3) * F^{-3} * \sin x^4 * \pi^{-4} - 1/4096 * \ln(1) * \ln(6) * F^{-3} * \pi^{-4} - 35/73728 * \ln(1) * \ln(8) * F^{-3} * \pi^{-4} - 11/36864 * \ln(1) * \ln(8) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} + 5/36864 * \ln(1) * \ln(8) * F^{-3} * \sin x^2 * \pi^{-4} + 1/4608 * \ln(1) * \ln(8) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-4} + 1/4608 * \ln(1) * \ln(8) * F^{-3} * \sin x^4 * \pi^{-4} + 7/49152 * \ln(3) * F^{-3} * \pi^{-4} - 1/6 * \ln(3) * F^{-3} * \pi^{-2} * L8r - 1/4 * \ln(3) * F^{-3} * \pi^{-2} * L7r + 29/576 * \ln(3) * F^{-3} * \pi^{-2} * L5r + 1/48 * \ln(3) * F^{-3} * \pi^{-2} * L3r + 5/24576 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} - 17/18 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L8r - 5/2 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L7r + 41/864 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L5r - 1/9 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L4r + 1/12 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L3r + 1/18 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L2r + 2/9 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L1r + 35/73728 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-4} - 25/18 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L8r - 11/3 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L7r + 19/288 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L5r - 1/9 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L4r + 7/72 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L3r + 1/18 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L2r + 2/9 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L1r + 8/9 * \ln(3) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-2} * L8r + 8/3 * \ln(3) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-2} * L7r + 8/9 * \ln(3) * F^{-3} * \sin x^4 * \pi^{-2} * L8r + 8/3 * \ln(3) * F^{-3} * \sin x^4 * \pi^{-2} * L7r + 7/24576 * \ln(3)^2 * F^{-3} * \pi^{-4} + 181/221184 * \ln(3)^2 * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} + 179/221184 * \ln(3)^2 * F^{-3} * \sin x^2 * \pi^{-4} - 19/55296 * \ln(3)^2 * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-4} + 11/55296 * \ln(3)^2 * F^{-3} * \sin x^4 * \pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^4*\pi^{-4} - 1/3456*\ln(3)^2*\text{F}^{-3}*\sin x^5*\cos x*\sqrt{3}*\pi^{-4} - 1/3456*\ln(3)^2*\text{F}^{-3}*\sin x^6*\pi^{-4} + 5/73728*\ln(3)*\ln(4)*\text{F}^{-3}*\pi^{-4} - 37/110592*\ln(3)*\ln(4)*\text{F}^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 13/36864*\ln(3)*\ln(4)*\text{F}^{-3}*\sin x^2*\pi^{-4} - 5/6912*\ln(3)*\ln(4)*\text{F}^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} - 1/1152*\ln(3)*\ln(4)*\text{F}^{-3}*\sin x^4*\pi^{-4} - 19/49152*\ln(3)*\ln(6)*\text{F}^{-3}*\pi^{-4} + 53/73728*\ln(3)*\ln(6)*\text{F}^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 65/73728*\ln(3)*\ln(6)*\text{F}^{-3}*\sin x^2*\pi^{-4} - 11/13824*\ln(3)*\ln(6)*\text{F}^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} - 1/1536*\ln(3)*\ln(6)*\text{F}^{-3}*\sin x^4*\pi^{-4} - 7/73728*\ln(3)*\ln(8)*\text{F}^{-3}*\pi^{-4} + 5/55296*\ln(3)*\ln(8)*\text{F}^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 1/1024*\ln(3)*\ln(8)*\text{F}^{-3}*\sin x^2*\pi^{-4} - 13/27648*\ln(3)*\ln(8)*\text{F}^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} - 43/27648*\ln(3)*\ln(8)*\text{F}^{-3}*\sin x^4*\pi^{-4} + 1/1728*\ln(3)*\ln(8)*\text{F}^{-3}*\sin x^5*\cos x*\sqrt{3}*\pi^{-4} + 1/1728*\ln(3)*\ln(8)*\text{F}^{-3}*\sin x^6*\pi^{-4} + 1/6144*\ln(4)*\text{F}^{-3}*\pi^{-4} - 1/4608*\ln(4)*\text{F}^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 1/3072*\ln(4)*\text{F}^{-3}*\sin x^2*\pi^{-4} - 5/73728*\ln(4)*\ln(8)*\text{F}^{-3}*\pi^{-4} + 37/110592*\ln(4)*\ln(8)*\text{F}^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 13/36864*\ln(4)*\ln(8)*\text{F}^{-3}*\sin x^2*\pi^{-4} + 5/6912*\ln(4)*\ln(8)*\text{F}^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} + 1/1152*\ln(4)*\ln(8)*\text{F}^{-3}*\sin x^4*\pi^{-4} - 7/6144*\ln(6)*\text{F}^{-3}*\pi^{-4} + 1/4*\ln(6)*\text{F}^{-3}*\pi^{-2}*L6r - 3/16*\ln(6)*\text{F}^{-3}*\pi^{-2}*L4r - 1/4608*\ln(6)*\text{F}^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 1/3072*\ln(6)*\text{F}^{-3}*\sin x^2*\pi^{-4} - 31/147456*\ln(6)*\ln(8)*\text{F}^{-3}*\pi^{-4} - 53/73728*\ln(6)*\ln(8)*\text{F}^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 65/73728*\ln(6)*\ln(8)*\text{F}^{-3}*\sin x^2*\pi^{-4} + 11/13824*\ln(6)*\ln(8)*\text{F}^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} + 1/1536*\ln(6)*\ln(8)*\text{F}^{-3}*\sin x^4*\pi^{-4} + 91/147456*\ln(8)*\text{F}^{-3}*\pi^{-4} - 5/6*\ln(8)*\text{F}^{-3}*\pi^{-2}*L8r - 7/4*\ln(8)*\text{F}^{-3}*\pi^{-2}*L7r + 67/576*\ln(8)*\text{F}^{-3}*\pi^{-2}*L5r - 1/9*\ln(8)*\text{F}^{-3}*\pi^{-2}*L4r + 17/144*\ln(8)*\text{F}^{-3}*\pi^{-2}*L3r + 1/18*\ln(8)*\text{F}^{-3}*\pi^{-2}*L2r + 2/9*\ln(8)*\text{F}^{-3}*\pi^{-2}*L1r - 5/24576*\ln(8)*\text{F}^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 17/18*\ln(8)*\text{F}^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L8r + 5/2*\ln(8)*\text{F}^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L7r - 41/864*\ln(8)*\text{F}^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L5r + 1/9*\ln(8)*\text{F}^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L4r - 1/12*\ln(8)*\text{F}^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L3r - 1/18*\ln(8)*\text{F}^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L2r - 2/9*\ln(8)*\text{F}^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L1r - 35/73728*\ln(8)*\text{F}^{-3}*\sin x^2*\pi^{-4} + 25/18*\ln(8)*\text{F}^{-3}*\sin x^2*\pi^{-2}*L8r + 11/3*\ln(8)*\text{F}^{-3}*\sin x^2*\pi^{-2}*L7r - 19/288*\ln(8)*\text{F}^{-3}*\sin x^2*\pi^{-2}*L5r + 1/9*\ln(8)*\text{F}^{-3}*\sin x^2*\pi^{-2}*L4r - 7/72*\ln(8)*\text{F}^{-3}*\sin x^2*\pi^{-2}*L3r - 1/18*\ln(8)*\text{F}^{-3}*\sin x^2*\pi^{-2}*L2r - 2/9*\ln(8)*\text{F}^{-3}*\sin x^2*\pi^{-2}*L1r - 8/9*\ln(8)*\text{F}^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-2}*L8r - 8/3*\ln(8)*\text{F}^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-2}*L7r - 8/9*\ln(8)*\text{F}^{-3}*\sin x^4*\pi^{-2}*L8r - 8/3*\ln(8)*\text{F}^{-3}*\sin x^4*\pi^{-2}*L7r + 41/36864*\ln(8)^2*\text{F}^{-3}*\pi^{-4} - 67/73728*\ln(8)^2*\text{F}^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 395/221184*\ln(8)^2*\text{F}^{-3}*\sin x^2*\pi^{-4} + 5/6144*\ln(8)^2*\text{F}^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} + 25/18432*\ln(8)^2*\text{F}^{-3}*\sin x^4*\pi^{-4} - 1/3456*\ln(8)^2*\text{F}^{-3}*\sin x^5*\cos x*\sqrt{3}*\pi^{-4} - 1/3456*\ln(8)^2*\text{F}^{-3}*\sin x^6*\pi^{-4} - 1/32*\text{Hb}(1,3,6,1,\text{plext.plext})*\text{F}^{-3} - 13/144*\text{Hb}(1,3,6,1,\text{plext.plext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} + 1/16*\text{Hb}(1,3,6,1,\text{plext.plext})*\text{F}^{-3}*\sin x^2 + 1/32*\text{Hb}(1,6,8,1,\text{plext.plext})*\text{F}^{-3} - 11/144*\text{Hb}(1,6,8,1,\text{plext.plext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} - 1/16*\text{Hb}(1,6,8,1,\text{plext.plext})*\text{F}^{-3}*\sin x^2 - 1/32*\text{Hb}(3,1,6,1,\text{plext.plext})*\text{F}^{-3} + 1/48*\text{Hb}(3,1,6,1,\text{plext.plext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} + 1/16*\text{Hb}(3,1,6,1,\text{plext.plext})*\text{F}^{-3}*\sin x^2 + 5/144*\text{Hb}(3,3,4,1,\text{plext.plext})*\text{F}^{-3} - 17/108*\text{Hb}(3,3,4,1,\text{plext.plext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} - 5/27*\text{Hb}(3,3,4,1,\text{plext.plext})*\text{F}^{-3}*\sin x^2 + 5/27*\text{Hb}(3,3,4,1,\text{plext.plext})*\text{F}^{-3}*\sin x^3*\cos x*\sqrt{3} + 5/27*\text{Hb}(3,3,4,1,\text{plext.plext})*\text{F}^{-3}*\sin x^4 + 1/72*\text{Hb}(3,4,8,1,\text{plext.plext})*\text{F}^{-3} - 1/27*\text{Hb}(3,4,8,1,\text{plext.plext})*\text{F}^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\cos x^*\sqrt{3} - 2/27^*\text{Hb}(3,4,8,1,\text{plext.plext})^*F^{-3}*\sin x^2 + 2/27^*\text{Hb}(3,4,8,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^3*\cos x^*\sqrt{3} + 2/27^*\text{Hb}(3,4,8,1,\text{plext.plext})^*F^{-3}*\sin x^4 - 1/64^*\text{Hb}(4,3,3,1,\text{plext.plext})^*F^{-} \\
& 3 + 1/16^*\text{Hb}(4,3,3,1,\text{plext.plext})^*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/12^*\text{Hb}(4,3,3,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^2 - 1/12^*\text{Hb}(4,3,3,1,\text{plext.plext})^*F^{-3}*\sin x^3*\cos x*\sqrt{3} - 1/12^*\text{Hb}(4,3,3,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^4 + 1/32^*\text{Hb}(4,3,8,1,\text{plext.plext})^*F^{-3} - 1/12^*\text{Hb}(4,3,8,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} - 1/6^*\text{Hb}(4,3,8,1,\text{plext.plext})^*F^{-3}*\sin x^2 + 1/6^*\text{Hb}(4,3,8,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^3*\cos x*\sqrt{3} + 1/6^*\text{Hb}(4,3,8,1,\text{plext.plext})^*F^{-3}*\sin x^4 - 13/576^*\text{Hb}(4,8,8,1,\text{plext.plext})^*F^{-} \\
& 3 + 1/48^*\text{Hb}(4,8,8,1,\text{plext.plext})^*F^{-3}*\sin x*\cos x*\sqrt{3} + 13/108^*\text{Hb}(4,8,8,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^2 - 13/108^*\text{Hb}(4,8,8,1,\text{plext.plext})^*F^{-3}*\sin x^3*\cos x*\sqrt{3} - 13/108^*\text{Hb}(4,8,8,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^4 + 1/24^*\text{Hb}(6,1,3,1,\text{plext.plext})^*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/24^*\text{Hb}(6,1,8,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} + 1/32^*\text{Hb}(8,1,6,1,\text{plext.plext})^*F^{-3} - 1/48^*\text{Hb}(8,1,6,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} - 1/16^*\text{Hb}(8,1,6,1,\text{plext.plext})^*F^{-3}*\sin x^2 - 1/16^*\text{H}21\text{b}(1,3,6,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} + 1/16^*\text{H}21\text{b}(1,6,8,1,\text{plext.plext})^*F^{-3}*\sin x*\cos x*\sqrt{3} - \\
& 1/16^*\text{H}21\text{b}(3,1,6,1,\text{plext.plext})^*F^{-3}*\sin x*\cos x*\sqrt{3} - 3/64^*\text{H}21\text{b}(4,3,3,1,\text{plext.plext})^*F^{-} \\
& 3 + 3/16^*\text{H}21\text{b}(4,3,3,1,\text{plext.plext})^*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/4^*\text{H}21\text{b}(4,3,3,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^2 - 1/4^*\text{H}21\text{b}(4,3,3,1,\text{plext.plext})^*F^{-3}*\sin x^3*\cos x*\sqrt{3} - 1/4^*\text{H}21\text{b}(4,3,3,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^4 + 3/32^*\text{H}21\text{b}(4,3,8,1,\text{plext.plext})^*F^{-3} - 1/4^*\text{H}21\text{b}(4,3,8,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} - 1/2^*\text{H}21\text{b}(4,3,8,1,\text{plext.plext})^*F^{-3}*\sin x^2 + 1/2^*\text{H}21\text{b}(4,3,8,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^3*\cos x*\sqrt{3} + 1/2^*\text{H}21\text{b}(4,3,8,1,\text{plext.plext})^*F^{-3}*\sin x^4 - 3/64^*\text{H}21\text{b}(4,8,8,1,\text{plext.plext})^*F^{-} \\
& 3 + 1/16^*\text{H}21\text{b}(4,8,8,1,\text{plext.plext})^*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/4^*\text{H}21\text{b}(4,8,8,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^2 - 1/4^*\text{H}21\text{b}(4,8,8,1,\text{plext.plext})^*F^{-3}*\sin x^3*\cos x*\sqrt{3} - 1/4^*\text{H}21\text{b}(4,8,8,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^4 + 1/8^*\text{H}21\text{b}(6,1,3,1,\text{plext.plext})^*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/8^*\text{H}21\text{b}(6,1,8,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} + 1/16^*\text{H}21\text{b}(8,1,6,1,\text{plext.plext})^*F^{-3}*\sin x*\cos x*\sqrt{3} + \\
& 1/6^*\text{H}H1\text{b}(1,3,6,1,\text{plext.plext})^*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/6^*\text{H}H1\text{b}(3,1,6,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} - 1/12^*\text{H}H1\text{b}(3,3,4,1,\text{plext.plext})^*F^{-3} + 7/18^*\text{H}H1\text{b}(3,3,4,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} + 4/9^*\text{H}H1\text{b}(3,3,4,1,\text{plext.plext})^*F^{-3}*\sin x^2 - 4/9^*\text{H}H1\text{b}(3,3,4,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^3*\cos x*\sqrt{3} - 4/9^*\text{H}H1\text{b}(3,3,4,1,\text{plext.plext})^*F^{-3}*\sin x^4 - 1/12^*\text{H}H1\text{b}(4,3,8,1,\text{plext.plext})^*F^{-} \\
& 3 + 2/9^*\text{H}H1\text{b}(4,3,8,1,\text{plext.plext})^*F^{-3}*\sin x*\cos x*\sqrt{3} + 4/9^*\text{H}H1\text{b}(4,3,8,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^2 - 4/9^*\text{H}H1\text{b}(4,3,8,1,\text{plext.plext})^*F^{-3}*\sin x^3*\cos x*\sqrt{3} - 4/9^*\text{H}H1\text{b}(4,3,8,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^4 + 1/24^*\text{H}H1\text{b}(4,8,8,1,\text{plext.plext})^*F^{-3} - 1/36^*\text{H}H1\text{b}(4,8,8,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} - 2/9^*\text{H}H1\text{b}(4,8,8,1,\text{plext.plext})^*F^{-3}*\sin x^2 + 2/9^*\text{H}H1\text{b}(4,8,8,1,\text{plext.plext})^*F^{-} \\
& 3^*\sin x^3*\cos x*\sqrt{3} + 2/9^*\text{H}H1\text{b}(4,8,8,1,\text{plext.plext})^*F^{-3}*\sin x^4 + \\
& 1/6^*\text{H}H1\text{b}(6,1,8,1,\text{plext.plext})^*F^{-3}*\sin x*\cos x*\sqrt{3}) \\
& + \text{mud}^*\text{mpp}2^*\text{mkp}2 * (+ 7/36864/(\text{mass}(3))^*\ln(3)^2*F^{-3}*\pi^{-4} + \\
& 7/55296/(\text{mass}(3))^*\ln(3)^2*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 1/1024/(\text{mass}(3))^*\ln(3)^2*F^{-} \\
& 3^*\sin x^2*\pi^{-4} - 1/6144/(\text{mass}(6))^*\ln(6)^2*F^{-3}*\pi^{-4} - 5/6144/(\text{mass}(7))^*\ln(6)^2*F^{-} \\
& 3^*\pi^{-4} + 43/36864/(\text{mass}(8))^*\ln(8)^2*F^{-3}*\pi^{-4} - 7/55296/(\text{mass}(8))^*\ln(8)^2*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 1/1024/(\text{mass}(8))^*\ln(8)^2*F^{-3}*\sin x^2*\pi^{-4}) \\
& + \text{mud}^*\text{mpp}2^2 * (- 1/12288/(\text{mass}(1))^*\ln(1)^2*F^{-3}*\pi^{-4} - 5/12288/(\text{mass}(2))^*\ln(1)^2*F^{-} \\
& 3^*\pi^{-4} + 1/36864/(\text{mass}(3))^*\ln(3)^2*F^{-3}*\pi^{-4} + 19/55296/(\text{mass}(3))^*\ln(3)^2*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 1/36864/(\text{mass}(8))^*\ln(8)^2*F^{-3}*\pi^{-4} - 19/55296/(\text{mass}(8))^*\ln(8)^2*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3}*\pi^{-4}) \\
& + \text{mud}^2 * (+ 13/12288*F^{-3}*\pi^{-4} + 1/4096*F^{-3}*\pi^{-2} - 3/4*F^{-3}*\pi^{-} \\
& 2^*\text{L}8\text{r} - F^{-3}*\pi^{-2}*\text{L}7\text{r} - 1/4*F^{-3}*\pi^{-2}*\text{L}6\text{r} + 5/24*F^{-3}*\pi^{-2}*\text{L}5\text{r}
\end{aligned}$$

$$\begin{aligned}
& + 1/8 * F^{-3} * \pi^{-2} * L4r - 41/864 * F^{-3} * \pi^{-2} * L3r - 7/36 * F^{-3} * \pi^{-2} * L2r \\
& - 8 * F^{-3} * L4r^2 - 8 * F^{-3} * CC17 + 24 * F^{-3} * CC16 + 8 * F^{-3} * CC14 - \\
& 5/16384 * \ln(3) * F^{-3} * \pi^{-4} - 1/24 * \ln(3) * F^{-3} * \pi^{-2} * L8r - 1/8 * \ln(3) * F^{-3} * \pi^{-2} * L7r \\
& + 1/8 * \ln(3) * F^{-3} * \pi^{-2} * L6r + 1/576 * \ln(3) * F^{-3} * \pi^{-2} * L5r - 17/96 * \ln(3) * F^{-3} * \pi^{-2} * L4r \\
& + 1/24 * \ln(3) * F^{-3} * \pi^{-2} * L3r + 1/24 * \ln(3) * F^{-3} * \pi^{-2} * L2r + 1/6 * \ln(3) * F^{-3} * \pi^{-2} * L1r \\
& + 11/73728 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} - 13/36 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L8r \\
& - 13/12 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L7r + 1/12 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L6r \\
& - 1/864 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L5r + 7/144 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L4r \\
& - 1/18 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L3r - 1/18 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L2r \\
& - 2/9 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L1r + 41/73728 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-4} - 17/36 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L8r \\
& - 11/12 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L7r - 1/4 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L6r + 23/288 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L5r \\
& + 11/144 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L4r + 7/72 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L3r + 1/18 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L2r \\
& + 2/9 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L1r + 2/9 * \ln(3) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-2} * L8r \\
& + 2/3 * \ln(3) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-2} * L7r + 2/9 * \ln(3) * F^{-3} * \sin x^4 * \pi^{-2} * L8r \\
& + 2/3 * \ln(3) * F^{-3} * \sin x^4 * \pi^{-2} * L7r - 1/32768 * \ln(3)^2 * F^{-3} * \pi^{-4} + 19/110592 * \ln(3)^2 * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} \\
& + 65/221184 * \ln(3)^2 * F^{-3} * \sin x^2 * \pi^{-4} + 19/110592 * \ln(3)^2 * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-4} + 61/110592 * \ln(3)^2 * F^{-3} * \sin x^4 * \pi^{-4} \\
& - 1/3456 * \ln(3)^2 * F^{-3} * \sin x^5 * \cos x * \sqrt{3} * \pi^{-4} - 1/3456 * \ln(3)^2 * F^{-3} * \sin x^6 * \pi^{-4} + 19/73728 * \ln(3) * \ln(4) * F^{-3} * \pi^{-4} - 25/110592 * \ln(3) * \ln(4) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} - 5/36864 * \ln(3) * \ln(4) * F^{-3} * \sin x^2 * \pi^{-4} - 1/13824 * \ln(3) * \ln(4) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-4} - 1/1536 * \ln(3) * \ln(4) * F^{-3} * \sin x^4 * \pi^{-4} - 17/49152 * \ln(3) * \ln(6) * F^{-3} * \pi^{-4} + 85/73728 * \ln(3) * \ln(6) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} - 5/8192 * \ln(3) * \ln(6) * F^{-3} * \sin x^2 * \pi^{-4} - 5/13824 * \ln(3) * \ln(6) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-4} + 1/4608 * \ln(3) * \ln(6) * F^{-3} * \sin x^4 * \pi^{-4} + 7/147456 * \ln(3) * \ln(8) * F^{-3} * \pi^{-4} + 11/110592 * \ln(3) * \ln(8) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} + 5/6144 * \ln(3) * \ln(8) * F^{-3} * \sin x^2 * \pi^{-4} - 35/55296 * \ln(3) * \ln(8) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-4} - 77/55296 * \ln(3) * \ln(8) * F^{-3} * \sin x^4 * \pi^{-4} + 1/1728 * \ln(3) * \ln(8) * F^{-3} * \sin x^5 * \cos x * \sqrt{3} * \pi^{-4} + 1/1728 * \ln(3) * \ln(8) * F^{-3} * \sin x^6 * \pi^{-4} + 1/12288 * \ln(4) * F^{-3} * \pi^{-4} - 1/18432 * \ln(4) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} - 1/6144 * \ln(4) * F^{-3} * \sin x^2 * \pi^{-4} - 19/73728 * \ln(4) * \ln(8) * F^{-3} * \pi^{-4} + 25/110592 * \ln(4) * \ln(8) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} + 5/36864 * \ln(4) * \ln(8) * F^{-3} * \sin x^2 * \pi^{-4} + 1/13824 * \ln(4) * \ln(8) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-4} + 1/1536 * \ln(4) * \ln(8) * F^{-3} * \sin x^4 * \pi^{-4} - 1/12288 * \ln(6) * F^{-3} * \pi^{-4} - 1/4 * \ln(6) * F^{-3} * \pi^{-2} * L8r - 1/4 * \ln(6) * F^{-3} * \pi^{-2} * L6r + 1/8 * \ln(6) * F^{-3} * \pi^{-2} * L5r - 5/16 * \ln(6) * F^{-3} * \pi^{-2} * L4r + 5/16 * \ln(6) * F^{-3} * \pi^{-2} * L3r + 1/4 * \ln(6) * F^{-3} * \pi^{-2} * L2r + \ln(6) * F^{-3} * \pi^{-2} * L1r + 1/18432 * \ln(6) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} + 1/6144 * \ln(6) * F^{-3} * \sin x^2 * \pi^{-4} - 1/8192 * \ln(6)^2 * F^{-3} * \pi^{-4} - 101/147456 * \ln(6) * \ln(8) * F^{-3} * \pi^{-4} - 85/73728 * \ln(6) * \ln(8) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} + 5/8192 * \ln(6) * \ln(8) * F^{-3} * \sin x^2 * \pi^{-4} + 5/13824 * \ln(6) * \ln(8) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-4} - 1/4608 * \ln(6) * \ln(8) * F^{-3} * \sin x^4 * \pi^{-4} + 37/147456 * \ln(8) * F^{-3} * \pi^{-4} - 11/24 * \ln(8) * F^{-3} * \pi^{-2} * L8r - 7/8 * \ln(8) * F^{-3} * \pi^{-2} * L7r - 1/8 * \ln(8) * F^{-3} * \pi^{-2} * L6r + 47/576 * \ln(8) * F^{-3} * \pi^{-2} * L5r - 29/288 * \ln(8) * F^{-3} * \pi^{-2} * L4r +
\end{aligned}$$

$$\begin{aligned}
& 5/36*\ln(8)*F^{-3*\pi^{-2}*L3r} + 7/72*\ln(8)*F^{-3*\pi^{-2}*L2r} + 7/18*\ln(8)*F^{-3*\pi^{-2}*L1r} - 11/73728*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} + 13/36*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L8r} + 13/12*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L7r} - 1/12*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L6r} + 1/864*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L5r} - 7/144*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L4r} + 1/18*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L3r} + 1/18*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L2r} + 2/9*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L1r} - 41/73728*\ln(8)*F^{-3*\sin x^2*\pi^{-4}} + 17/36*\ln(8)*F^{-3*\sin x^2*\pi^{-2}*L8r} + 11/12*\ln(8)*F^{-3*\sin x^2*\pi^{-2}*L7r} + 1/4*\ln(8)*F^{-3*\sin x^2*\pi^{-2}*L6r} - 23/288*\ln(8)*F^{-3*\sin x^2*\pi^{-2}*L5r} - 11/144*\ln(8)*F^{-3*\sin x^2*\pi^{-2}*L4r} - 7/72*\ln(8)*F^{-3*\sin x^2*\pi^{-2}*L3r} - 1/18*\ln(8)*F^{-3*\sin x^2*\pi^{-2}*L2r} - 2/9*\ln(8)*F^{-3*\sin x^2*\pi^{-2}*L1r} - 2/9*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-2}*L8r} - 2/3*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-2}*L7r} - 2/9*\ln(8)*F^{-3*\sin x^4*\pi^{-2}*L8r} - 2/3*\ln(8)*F^{-3*\sin x^4*\pi^{-2}*L7r} + 187/294912*\ln(8)^2*F^{-3*\pi^{-4}} - 5/18432*\ln(8)^2*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} - 245/221184*\ln(8)^2*F^{-3*\sin x^2*\pi^{-4}} + 17/36864*\ln(8)^2*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} + 31/36864*\ln(8)^2*F^{-3*\sin x^4*\pi^{-4}} - 1/3456*\ln(8)^2*F^{-3*\sin x^5*\cos x*\sqrt{3}*\pi^{-4}} - 4 - 1/3456*\ln(8)^2*F^{-3*\sin x^6*\pi^{-4}} + 1/12*\text{Hb}(1,3,6,1,\text{plext.plext})*F^{-3} - 1/18*\text{Hb}(1,3,6,1,\text{plext.plext})*F^{-3*\sin x*\cos x*\sqrt{3}} - 1/6*\text{Hb}(1,3,6,1,\text{plext.plext})*F^{-3*\sin x^2} + 1/24*\text{Hb}(1,6,8,1,\text{plext.plext})*F^{-3} - 1/36*\text{Hb}(1,6,8,1,\text{plext.plext})*F^{-3*\sin x*\cos x*\sqrt{3}} - 1/12*\text{Hb}(1,6,8,1,\text{plext.plext})*F^{-3*\sin x^2} + 1/12*\text{Hb}(3,3,4,1,\text{plext.plext})*F^{-3} - 7/216*\text{Hb}(3,3,4,1,\text{plext.plext})*F^{-3*\sin x*\cos x*\sqrt{3}} - 61/216*\text{Hb}(3,3,4,1,\text{plext.plext})*F^{-3*\sin x^2} + 5/27*\text{Hb}(3,3,4,1,\text{plext.plext})*F^{-3*\sin x^4} + 1/72*\text{Hb}(3,4,8,1,\text{plext.plext})*F^{-3} - 2/27*\text{Hb}(3,4,8,1,\text{plext.plext})*F^{-3*\sin x^2} + 2/27*\text{Hb}(3,4,8,1,\text{plext.plext})*F^{-3*\sin x^4} - 1/32*\text{Hb}(4,3,3,1,\text{plext.plext})*F^{-3} + 1/96*\text{Hb}(4,3,3,1,\text{plext.plext})*F^{-3*\sin x*\cos x*\sqrt{3}} + 11/96*\text{Hb}(4,3,3,1,\text{plext.plext})*F^{-3*\sin x^2} - 1/12*\text{Hb}(4,3,3,1,\text{plext.plext})*F^{-3*\sin x^4} + 1/32*\text{Hb}(4,3,8,1,\text{plext.plext})*F^{-3} - 1/6*\text{Hb}(4,3,8,1,\text{plext.plext})*F^{-3*\sin x^2} + 1/6*\text{Hb}(4,3,8,1,\text{plext.plext})*F^{-3*\sin x^4} + 1/144*\text{Hb}(4,8,8,1,\text{plext.plext})*F^{-3} - 17/864*\text{Hb}(4,8,8,1,\text{plext.plext})*F^{-3*\sin x*\cos x*\sqrt{3}} + 53/864*\text{Hb}(4,8,8,1,\text{plext.plext})*F^{-3*\sin x^2} - 13/108*\text{Hb}(4,8,8,1,\text{plext.plext})*F^{-3*\sin x^4} - 1/32*\text{Hb}(6,1,3,1,\text{plext.plext})*F^{-3} + 1/48*\text{Hb}(6,1,3,1,\text{plext.plext})*F^{-3*\sin x*\cos x*\sqrt{3}} + 1/16*\text{Hb}(6,1,3,1,\text{plext.plext})*F^{-3*\sin x^2} + 1/32*\text{Hb}(6,1,8,1,\text{plext.plext})*F^{-3} - 1/48*\text{Hb}(6,1,8,1,\text{plext.plext})*F^{-3*\sin x*\cos x*\sqrt{3}} - 1/16*\text{Hb}(6,1,8,1,\text{plext.plext})*F^{-3*\sin x^2} + 3/64*\text{H21b}(1,3,6,1,\text{plext.plext})*F^{-3} - 1/32*\text{H21b}(1,3,6,1,\text{plext.plext})*F^{-3*\sin x*\cos x*\sqrt{3}} - 3/32*\text{H21b}(1,3,6,1,\text{plext.plext})*F^{-3*\sin x^2} - 3/64*\text{H21b}(1,6,8,1,\text{plext.plext})*F^{-3} + 1/32*\text{H21b}(1,6,8,1,\text{plext.plext})*F^{-3*\sin x*\cos x*\sqrt{3}} + 3/32*\text{H21b}(1,6,8,1,\text{plext.plext})*F^{-3*\sin x^2} + 3/64*\text{H21b}(3,1,6,1,\text{plext.plext})*F^{-3} - 1/32*\text{H21b}(3,1,6,1,\text{plext.plext})*F^{-3*\sin x*\cos x*\sqrt{3}} - 3/32*\text{H21b}(3,1,6,1,\text{plext.plext})*F^{-3*\sin x^2} - 3/32*\text{H21b}(4,3,3,1,\text{plext.plext})*F^{-3} + 1/32*\text{H21b}(4,3,3,1,\text{plext.plext})*F^{-3*\sin x*\cos x*\sqrt{3}} + 11/32*\text{H21b}(4,3,3,1,\text{plext.plext})*F^{-3*\sin x^2} - 1/4*\text{H21b}(4,3,3,1,\text{plext.plext})*F^{-3*\sin x^4} + 3/32*\text{H21b}(4,3,8,1,\text{plext.plext})*F^{-3} - 1/2*\text{H21b}(4,3,8,1,\text{plext.plext})*F^{-3*\sin x^2} + 1/2*\text{H21b}(4,3,8,1,\text{plext.plext})*F^{-3*\sin x^4} - 1/32*\text{H21b}(4,8,8,1,\text{plext.plext})*F^{-3*\sin x*\cos x*\sqrt{3}} + 5/32*\text{H21b}(4,8,8,1,\text{plext.plext})*F^{-3*\sin x^2} - 1/4*\text{H21b}(4,8,8,1,\text{plext.plext})*F^{-3*\sin x^4} - 3/32*\text{H21b}(6,1,3,1,\text{plext.plext})*F^{-3} + 1/16*\text{H21b}(6,1,3,1,\text{plext.plext})*F^{-3*\sin x*\cos x*\sqrt{3}} + 3/16*\text{H21b}(6,1,3,1,\text{plext.plext})*F^{-3*\sin x^2} + 3/32*\text{H21b}(6,1,8,1,\text{plext.plext})*F^{-3} - 1/16*\text{H21b}(6,1,8,1,\text{plext.plext})*F^{-3*\sin x*\cos x*\sqrt{3}} - 3/16*\text{H21b}(6,1,8,1,\text{plext.plext})*F^{-3*\sin x^2} - 3/64*\text{H21b}(8,1,6,1,\text{plext.plext})*F^{-3} + 1/32*\text{H21b}(8,1,6,1,\text{plext.plext})*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^* \cos x^* \sqrt{3} + 3/32^* H21b(8,1,6,1, \text{p1ext.p1ext})^* F^{-3} \sin x^2 - 1/8^* HH1b(1,3,6,1, \text{p1ext.p1ext})^* F^{-3} \\
& + 1/12^* HH1b(1,3,6,1, \text{p1ext.p1ext})^* F^{-3} \sin x^* \cos x^* \sqrt{3} + 1/4^* HH1b(1,3,6,1, \text{p1ext.p1ext})^* F^{-3} \\
& 3^* \sin x^2 - 1/8^* HH1b(3,1,6,1, \text{p1ext.p1ext})^* F^{-3} + 1/12^* HH1b(3,1,6,1, \text{p1ext.p1ext})^* F^{-3} \\
& 3^* \sin x^* \cos x^* \sqrt{3} + 1/4^* HH1b(3,1,6,1, \text{p1ext.p1ext})^* F^{-3} \sin x^2 - 5/24^* HH1b(3,3,4,1, \text{p1ext.p1ext})^* F^{-3} \\
& + 1/12^* HH1b(3,3,4,1, \text{p1ext.p1ext})^* F^{-3} \sin x^* \cos x^* \sqrt{3} + 25/36^* HH1b(3,3,4,1, \text{p1ext.p1ext})^* F^{-3} \\
& 3^* \sin x^2 - 4/9^* HH1b(3,3,4,1, \text{p1ext.p1ext})^* F^{-3} \sin x^4 - 1/12^* HH1b(4,3,8,1, \text{p1ext.p1ext})^* F^{-3} \\
& + 4/9^* HH1b(4,3,8,1, \text{p1ext.p1ext})^* F^{-3} \sin x^2 - 4/9^* HH1b(4,3,8,1, \text{p1ext.p1ext})^* F^{-3} \\
& 3^* \sin x^4 - 1/48^* HH1b(4,8,8,1, \text{p1ext.p1ext})^* F^{-3} + 1/24^* HH1b(4,8,8,1, \text{p1ext.p1ext})^* F^{-3} \\
& 3^* \sin x^* \cos x^* \sqrt{3} - 7/72^* HH1b(4,8,8,1, \text{p1ext.p1ext})^* F^{-3} \sin x^2 + 2/9^* HH1b(4,8,8,1, \text{p1ext.p1ext})^* F^{-3} \\
& 3^* \sin x^4 - 1/8^* HH1b(6,1,8,1, \text{p1ext.p1ext})^* F^{-3} + 1/12^* HH1b(6,1,8,1, \text{p1ext.p1ext})^* F^{-3} \\
& 3^* \sin x^* \cos x^* \sqrt{3} + 1/4^* HH1b(6,1,8,1, \text{p1ext.p1ext})^* F^{-3} \sin x^2) \\
& + \text{mud}^2 * \text{mkp2} * (+ 11/73728 / (\text{mass}(3))^* \ln(3)^2 * F^{-3} \pi^{-4} - 17/27648 / (\text{mass}(3))^* \ln(3)^2 * F^{-3} \\
& 3^* \sin x^* \cos x^* \sqrt{3} * \pi^{-4} + 3/2048 / (\text{mass}(3))^* \ln(3)^2 * F^{-3} \sin x^2 * \pi^{-4} + \\
& 11/8192 / (\text{mass}(6))^* \ln(6)^2 * F^{-3} \pi^{-4} + 11/8192 / (\text{mass}(7))^* \ln(6)^2 * F^{-3} \\
& 3^* \pi^{-4} + 119/73728 / (\text{mass}(8))^* \ln(8)^2 * F^{-3} \pi^{-4} + 17/27648 / (\text{mass}(8))^* \ln(8)^2 * F^{-3} \\
& 3^* \sin x^* \cos x^* \sqrt{3} * \pi^{-4} - 3/2048 / (\text{mass}(8))^* \ln(8)^2 * F^{-3} \sin x^2 * \pi^{-4}) \\
& + \text{mud}^2 * \text{mpp2} * (+ 7/73728 / (\text{mass}(3))^* \ln(3)^2 * F^{-3} \pi^{-4} + 5/110592 / (\text{mass}(3))^* \ln(3)^2 * F^{-3} \\
& 3^* \sin x^* \cos x^* \sqrt{3} * \pi^{-4} - 1/4096 / (\text{mass}(3))^* \ln(3)^2 * F^{-3} \sin x^2 * \pi^{-4} \\
& + 1/12288 / (\text{mass}(6))^* \ln(6)^2 * F^{-3} \pi^{-4} + 5/12288 / (\text{mass}(7))^* \ln(6)^2 * F^{-3} \\
& 3^* \pi^{-4} - 11/73728 / (\text{mass}(8))^* \ln(8)^2 * F^{-3} \pi^{-4} - 5/110592 / (\text{mass}(8))^* \ln(8)^2 * F^{-3} \\
& 3^* \sin x^* \cos x^* \sqrt{3} * \pi^{-4} + 1/4096 / (\text{mass}(8))^* \ln(8)^2 * F^{-3} \sin x^2 * \pi^{-4}) \\
& + \text{mud}^3 * (- 1/8192 / (\text{mass}(3))^* \ln(3)^2 * F^{-3} \pi^{-4} + 1/4096 / (\text{mass}(3))^* \ln(3)^2 * F^{-3} \\
& 3^* \sin x^* \cos x^* \sqrt{3} * \pi^{-4} - 1/4096 / (\text{mass}(3))^* \ln(3)^2 * F^{-3} \sin x^2 * \pi^{-4} \\
& - 13/24576 / (\text{mass}(6))^* \ln(6)^2 * F^{-3} \pi^{-4} - 11/24576 / (\text{mass}(7))^* \ln(6)^2 * F^{-3} \\
& 3^* \pi^{-4} - 3/8192 / (\text{mass}(8))^* \ln(8)^2 * F^{-3} \pi^{-4} - 1/4096 / (\text{mass}(8))^* \ln(8)^2 * F^{-3} \\
& 3^* \sin x^* \cos x^* \sqrt{3} * \pi^{-4} + 1/4096 / (\text{mass}(8))^* \ln(8)^2 * F^{-3} \sin x^2 * \pi^{-4}); \\
& \text{Neutral kaon: Fpi666} = \\
& + \text{mkp2} * (+ 1/8^* Hb(1,1,6, \text{qext.qext})^* F^{-3} - 1/4^* Hb(1,2,7, \text{qext.qext})^* F^{-3} - \\
& 1/4^* Hb(1,3,4, \text{qext.qext})^* F^{-3} - 2/9^* Hb(1,3,4, \text{qext.qext})^* F^{-3} \sin x^* \cos x^* \sqrt{3} \\
& + 2/3^* Hb(1,3,4, \text{qext.qext})^* F^{-3} \sin x^2 - 1/12^* Hb(1,4,8, \text{qext.qext})^* F^{-3} - \\
& 4/9^* Hb(1,4,8, \text{qext.qext})^* F^{-3} \sin x^* \cos x^* \sqrt{3} + 1/3^* Hb(1,4,8, \text{qext.qext})^* F^{-3} \\
& 3^* \sin x^2 + 1/8^* Hb(2,2,6, \text{qext.qext})^* F^{-3} + 1/2^* Hb(2,3,4, \text{p1ext.p1ext})^* F^{-3} + \\
& 4/9^* Hb(2,3,4, \text{p1ext.p1ext})^* F^{-3} \sin x^* \cos x^* \sqrt{3} - 4/3^* Hb(2,3,4, \text{p1ext.p1ext})^* F^{-3} \\
& 3^* \sin x^2 - 1/4^* Hb(2,3,5, \text{qext.qext})^* F^{-3} - 2/9^* Hb(2,3,5, \text{qext.qext})^* F^{-3} \\
& 3^* \sin x^* \cos x^* \sqrt{3} + 2/3^* Hb(2,3,5, \text{qext.qext})^* F^{-3} \sin x^2 + 1/6^* Hb(2,4,8, \text{p1ext.p1ext})^* F^{-3} \\
& + 8/9^* Hb(2,4,8, \text{p1ext.p1ext})^* F^{-3} \sin x^* \cos x^* \sqrt{3} - 2/3^* Hb(2,4,8, \text{p1ext.p1ext})^* F^{-3} \\
& 3^* \sin x^2 - 1/12^* Hb(2,5,8, \text{qext.qext})^* F^{-3} - 4/9^* Hb(2,5,8, \text{qext.qext})^* F^{-3} \\
& 3^* \sin x^* \cos x^* \sqrt{3} + 1/3^* Hb(2,5,8, \text{qext.qext})^* F^{-3} \sin x^2 - 1/12^* Hb(3,1,4, \text{qext.qext})^* F^{-3} \\
& 3^* \sin x^* \cos x^* \sqrt{3} + 1/12^* Hb(3,2,4, \text{p1ext.p1ext})^* F^{-3} \sin x^* \cos x^* \sqrt{3} - \\
& 1/12^* Hb(3,2,5, \text{qext.qext})^* F^{-3} \sin x^* \cos x^* \sqrt{3} - 1/8^* Hb(3,3,6, \text{p1ext.p1ext})^* F^{-3} \\
& + 19/27^* Hb(3,3,6, \text{p1ext.p1ext})^* F^{-3} \sin x^* \cos x^* \sqrt{3} - 16/9^* Hb(3,3,6, \text{p1ext.p1ext})^* F^{-3} \\
& 3^* \sin x^2 + 10/27^* Hb(3,3,6, \text{p1ext.p1ext})^* F^{-3} \sin x^3 \cos x^* \sqrt{3} + 10/9^* Hb(3,3,6, \text{p1ext.p1ext})^* F^{-3} \\
& 3^* \sin x^4 + 1/8^* Hb(3,3,6, \text{qext.qext})^* F^{-3} - 19/27^* Hb(3,3,6, \text{qext.qext})^* F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\cos x^*\sqrt{3} + 16/9^*\text{Hb}(3,3,6,\text{qext}.\text{qext})^*F^{-3}*\sin x^2 - 10/27^*\text{Hb}(3,3,6,\text{qext}.\text{qext})^*F^{-} \\
& 3^*\sin x^3*\cos x^*\sqrt{3} - 10/9^*\text{Hb}(3,3,6,\text{qext}.\text{qext})^*F^{-3}*\sin x^4 + 1/12^*\text{Hb}(3,6,8,\text{plext}.\text{plext})^*F^{-} \\
& 3 - 2/27^*\text{Hb}(3,6,8,\text{plext}.\text{plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 4/9^*\text{Hb}(3,6,8,\text{plext}.\text{plext})^*F^{-} \\
& 3^*\sin x^2 + 4/27^*\text{Hb}(3,6,8,\text{plext}.\text{plext})^*F^{-3}*\sin x^3*\cos x^*\sqrt{3} + 4/9^*\text{Hb}(3,6,8,\text{plext}.\text{plext})^*F^{-} \\
& 3^*\sin x^4 - 1/12^*\text{Hb}(3,6,8,\text{qext}.\text{qext})^*F^{-3} + 2/27^*\text{Hb}(3,6,8,\text{qext}.\text{qext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 4/9^*\text{Hb}(3,6,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^2 - 4/27^*\text{Hb}(3,6,8,\text{qext}.\text{qext})^*F^{-} \\
& 3^*\sin x^3*\cos x^*\sqrt{3} - 4/9^*\text{Hb}(3,6,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^4 + 1/16^*\text{Hb}(4,1,3,\text{qext}.\text{qext})^*F^{-} \\
& 3 - 1/12^*\text{Hb}(4,1,3,\text{qext}.\text{qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/4^*\text{Hb}(4,1,3,\text{qext}.\text{qext})^*F^{-} \\
& 3^*\sin x^2 - 3/16^*\text{Hb}(4,1,8,\text{qext}.\text{qext})^*F^{-3} + 1/12^*\text{Hb}(4,1,8,\text{qext}.\text{qext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/4^*\text{Hb}(4,1,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^2 - 1/16^*\text{Hb}(4,2,3,\text{plext}.\text{plext})^*F^{-} \\
& 3 + 1/12^*\text{Hb}(4,2,3,\text{plext}.\text{plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/4^*\text{Hb}(4,2,3,\text{plext}.\text{plext})^*F^{-} \\
& 3^*\sin x^2 + 3/16^*\text{Hb}(4,2,8,\text{plext}.\text{plext})^*F^{-3} - 1/12^*\text{Hb}(4,2,8,\text{plext}.\text{plext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 1/4^*\text{Hb}(4,2,8,\text{plext}.\text{plext})^*F^{-3}*\sin x^2 + 1/8^*\text{Hb}(4,4,6,\text{qext}.\text{qext})^*F^{-} \\
& 3 - 3/8^*\text{Hb}(4,5,7,\text{qext}.\text{qext})^*F^{-3} + 1/16^*\text{Hb}(5,2,3,\text{qext}.\text{qext})^*F^{-3} - \\
& 1/12^*\text{Hb}(5,2,3,\text{qext}.\text{qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/4^*\text{Hb}(5,2,3,\text{qext}.\text{qext})^*F^{-} \\
& 3^*\sin x^2 - 3/16^*\text{Hb}(5,2,8,\text{qext}.\text{qext})^*F^{-3} + 1/12^*\text{Hb}(5,2,8,\text{qext}.\text{qext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/4^*\text{Hb}(5,2,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^2 + 1/8^*\text{Hb}(5,4,6,\text{plext}.\text{plext})^*F^{-} \\
& 3 - 1/8^*\text{Hb}(5,4,7,\text{qext}.\text{qext})^*F^{-3} + 1/8^*\text{Hb}(5,5,6,\text{qext}.\text{qext})^*F^{-3} - 1/32^*\text{Hb}(6,1,1,\text{qext}.\text{qext})^*F^{-} \\
& 3 - 1/32^*\text{Hb}(6,2,2,\text{qext}.\text{qext})^*F^{-3} + 1/64^*\text{Hb}(6,3,3,\text{plext}.\text{plext})^*F^{-3} - \\
& 1/8^*\text{Hb}(6,3,3,\text{plext}.\text{plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/8^*\text{Hb}(6,3,3,\text{plext}.\text{plext})^*F^{-} \\
& 3^*\sin x^2 - 1/12^*\text{Hb}(6,3,3,\text{plext}.\text{plext})^*F^{-3}*\sin x^3*\cos x^*\sqrt{3} - 1/4^*\text{Hb}(6,3,3,\text{plext}.\text{plext})^*F^{-} \\
& 3^*\sin x^4 - 1/32^*\text{Hb}(6,3,3,\text{qext}.\text{qext})^*F^{-3} + 1/4^*\text{Hb}(6,3,3,\text{qext}.\text{qext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 3/4^*\text{Hb}(6,3,3,\text{qext}.\text{qext})^*F^{-3}*\sin x^2 + 1/6^*\text{Hb}(6,3,3,\text{qext}.\text{qext})^*F^{-} \\
& 3^*\sin x^3*\cos x^*\sqrt{3} + 1/2^*\text{Hb}(6,3,3,\text{qext}.\text{qext})^*F^{-3}*\sin x^4 + 3/32^*\text{Hb}(6,3,8,\text{plext}.\text{plext})^*F^{-} \\
& 3 - 1/12^*\text{Hb}(6,3,8,\text{plext}.\text{plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/2^*\text{Hb}(6,3,8,\text{plext}.\text{plext})^*F^{-} \\
& 3^*\sin x^2 + 1/6^*\text{Hb}(6,3,8,\text{plext}.\text{plext})^*F^{-3}*\sin x^3*\cos x^*\sqrt{3} + 1/2^*\text{Hb}(6,3,8,\text{plext}.\text{plext})^*F^{-} \\
& 3^*\sin x^4 - 3/16^*\text{Hb}(6,3,8,\text{qext}.\text{qext})^*F^{-3} + 1/6^*\text{Hb}(6,3,8,\text{qext}.\text{qext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + \text{Hb}(6,3,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^2 - 1/3^*\text{Hb}(6,3,8,\text{qext}.\text{qext})^*F^{-} \\
& 3^*\sin x^3*\cos x^*\sqrt{3} - \text{Hb}(6,3,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^4 - 1/32^*\text{Hb}(6,4,4,\text{qext}.\text{qext})^*F^{-} \\
& 3 - 1/32^*\text{Hb}(6,5,5,\text{qext}.\text{qext})^*F^{-3} - 2/3^*\text{Hb}(6,6,7,\text{plext}.\text{plext})^*F^{-3} - \\
& 5/6^*\text{Hb}(6,7,7,\text{qext}.\text{qext})^*F^{-3} + 67/192^*\text{Hb}(6,8,8,\text{plext}.\text{plext})^*F^{-3} + \\
& 101/216^*\text{Hb}(6,8,8,\text{plext}.\text{plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 13/72^*\text{Hb}(6,8,8,\text{plext}.\text{plext})^*F^{-} \\
& 3^*\sin x^2 - 17/108^*\text{Hb}(6,8,8,\text{plext}.\text{plext})^*F^{-3}*\sin x^3*\cos x^*\sqrt{3} - 17/36^*\text{Hb}(6,8,8,\text{plext}.\text{plext})^*F^{-} \\
& 3^*\sin x^4 - 47/96^*\text{Hb}(6,8,8,\text{qext}.\text{qext})^*F^{-3} - 73/108^*\text{Hb}(6,8,8,\text{qext}.\text{qext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 11/36^*\text{Hb}(6,8,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^2 + 13/54^*\text{Hb}(6,8,8,\text{qext}.\text{qext})^*F^{-} \\
& 3^*\sin x^3*\cos x^*\sqrt{3} + 13/18^*\text{Hb}(6,8,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^4 + 1/16^*\text{Hb}(7,1,2,\text{qext}.\text{qext})^*F^{-} \\
& 3 + 1/16^*\text{Hb}(7,4,5,\text{qext}.\text{qext})^*F^{-3} + 1/4^*\text{Hb}(7,6,6,\text{plext}.\text{plext})^*F^{-3} + \\
& 1/12^*\text{Hb}(8,1,4,\text{qext}.\text{qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/12^*\text{Hb}(8,2,4,\text{plext}.\text{plext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/12^*\text{Hb}(8,2,5,\text{qext}.\text{qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + \\
& 3/4^*\text{H21b}(1,2,6,\text{plext}.\text{plext})^*F^{-3} - 3/8^*\text{H21b}(1,2,7,\text{qext}.\text{qext})^*F^{-3} - \\
& 3/8^*\text{H21b}(1,3,4,\text{qext}.\text{qext})^*F^{-3} + 1/4^*\text{H21b}(1,3,4,\text{qext}.\text{qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} \\
& + 3/8^*\text{H21b}(1,3,4,\text{qext}.\text{qext})^*F^{-3}*\sin x^2 - 1/4^*\text{H21b}(1,4,8,\text{qext}.\text{qext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 3/8^*\text{H21b}(1,4,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^2 - 3/8^*\text{H21b}(2,1,7,\text{qext}.\text{qext})^*F^{-} \\
& 3 + 3/4^*\text{H21b}(2,3,4,\text{plext}.\text{plext})^*F^{-3} - 1/2^*\text{H21b}(2,3,4,\text{plext}.\text{plext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 3/4^*\text{H21b}(2,3,4,\text{plext}.\text{plext})^*F^{-3}*\sin x^2 - 3/8^*\text{H21b}(2,3,5,\text{qext}.\text{qext})^*F^{-} \\
& 3 + 1/4^*\text{H21b}(2,3,5,\text{qext}.\text{qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/8^*\text{H21b}(2,3,5,\text{qext}.\text{qext})^*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^2 + 1/2^*H21b(2,4,8,p1ext.p1ext)^*F^{-3}*\sin x*\cos x*\sqrt{3} + 3/4^*H21b(2,4,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^2 - 1/4^*H21b(2,5,8,qext.qext)^*F^{-3}*\sin x*\cos x*\sqrt{3} - 3/8^*H21b(2,5,8,qext.qext)^*F^{-} \\
& 3^*\sin x^2 - 3/8^*H21b(3,1,4,qext.qext)^*F^{-3} - 1/2^*H21b(3,1,4,qext.qext)^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} + 3/8^*H21b(3,1,4,qext.qext)^*F^{-3}*\sin x^2 + 3/4^*H21b(3,2,4,p1ext.p1ext)^*F^{-} \\
& 3 + H21b(3,2,4,p1ext.p1ext)^*F^{-3}*\sin x*\cos x*\sqrt{3} - 3/4^*H21b(3,2,4,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^2 - 3/8^*H21b(3,2,5,qext.qext)^*F^{-3} - 1/2^*H21b(3,2,5,qext.qext)^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} + 3/8^*H21b(3,2,5,qext.qext)^*F^{-3}*\sin x^2 + 3/16^*H21b(4,1,3,qext.qext)^*F^{-} \\
& 3 + 1/4^*H21b(4,1,3,qext.qext)^*F^{-3}*\sin x*\cos x*\sqrt{3} - 3/4^*H21b(4,1,3,qext.qext)^*F^{-} \\
& 3^*\sin x^2 - 9/16^*H21b(4,1,8,qext.qext)^*F^{-3} - 1/4^*H21b(4,1,8,qext.qext)^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} + 3/4^*H21b(4,1,8,qext.qext)^*F^{-3}*\sin x^2 - 3/8^*H21b(4,2,3,p1ext.p1ext)^*F^{-} \\
& 3 - 1/2^*H21b(4,2,3,p1ext.p1ext)^*F^{-3}*\sin x*\cos x*\sqrt{3} + 3/2^*H21b(4,2,3,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^2 + 9/8^*H21b(4,2,8,p1ext.p1ext)^*F^{-3} + 1/2^*H21b(4,2,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} - 3/2^*H21b(4,2,8,p1ext.p1ext)^*F^{-3}*\sin x^2 - 3/8^*H21b(4,5,7,qext.qext)^*F^{-} \\
& 3 + 3/16^*H21b(5,2,3,qext.qext)^*F^{-3} + 1/4^*H21b(5,2,3,qext.qext)^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} - 3/4^*H21b(5,2,3,qext.qext)^*F^{-3}*\sin x^2 - 9/16^*H21b(5,2,8,qext.qext)^*F^{-} \\
& 3 - 1/4^*H21b(5,2,8,qext.qext)^*F^{-3}*\sin x*\cos x*\sqrt{3} + 3/4^*H21b(5,2,8,qext.qext)^*F^{-} \\
& 3^*\sin x^2 + 3/4^*H21b(5,4,6,p1ext.p1ext)^*F^{-3} - 3/8^*H21b(5,4,7,qext.qext)^*F^{-} \\
& 3 - 3/32^*H21b(6,1,1,qext.qext)^*F^{-3} - 3/32^*H21b(6,2,2,qext.qext)^*F^{-3} \\
& + 3/32^*H21b(6,3,3,p1ext.p1ext)^*F^{-3} - 3/4^*H21b(6,3,3,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} + 9/4^*H21b(6,3,3,p1ext.p1ext)^*F^{-3}*\sin x^2 - 1/2^*H21b(6,3,3,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^3*\cos x*\sqrt{3} - 3/2^*H21b(6,3,3,p1ext.p1ext)^*F^{-3}*\sin x^4 - 3/32^*H21b(6,3,3,qext.qext)^*F^{-} \\
& 3 + 3/4^*H21b(6,3,3,qext.qext)^*F^{-3}*\sin x*\cos x*\sqrt{3} - 9/4^*H21b(6,3,3,qext.qext)^*F^{-} \\
& 3^*\sin x^2 + 1/2^*H21b(6,3,3,qext.qext)^*F^{-3}*\sin x^3*\cos x*\sqrt{3} + 3/2^*H21b(6,3,3,qext.qext)^*F^{-} \\
& 3^*\sin x^4 + 9/16^*H21b(6,3,8,p1ext.p1ext)^*F^{-3} - 1/2^*H21b(6,3,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} - 3^*H21b(6,3,8,p1ext.p1ext)^*F^{-3}*\sin x^2 + H21b(6,3,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^3*\cos x*\sqrt{3} + 3^*H21b(6,3,8,p1ext.p1ext)^*F^{-3}*\sin x^4 - 9/16^*H21b(6,3,8,qext.qext)^*F^{-} \\
& 3 + 1/2^*H21b(6,3,8,qext.qext)^*F^{-3}*\sin x*\cos x*\sqrt{3} + 3^*H21b(6,3,8,qext.qext)^*F^{-} \\
& 3^*\sin x^2 - H21b(6,3,8,qext.qext)^*F^{-3}*\sin x^3*\cos x*\sqrt{3} - 3^*H21b(6,3,8,qext.qext)^*F^{-} \\
& 3^*\sin x^4 - 3/32^*H21b(6,4,4,qext.qext)^*F^{-3} - 3/32^*H21b(6,5,5,qext.qext)^*F^{-3} \\
& - 3/2^*H21b(6,7,7,qext.qext)^*F^{-3} + 27/32^*H21b(6,8,8,p1ext.p1ext)^*F^{-3} + \\
& 5/4^*H21b(6,8,8,p1ext.p1ext)^*F^{-3}*\sin x*\cos x*\sqrt{3} + 3/4^*H21b(6,8,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^2 - 1/2^*H21b(6,8,8,p1ext.p1ext)^*F^{-3}*\sin x^3*\cos x*\sqrt{3} - 3/2^*H21b(6,8,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^4 - 27/32^*H21b(6,8,8,qext.qext)^*F^{-3} - 5/4^*H21b(6,8,8,qext.qext)^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} - 3/4^*H21b(6,8,8,qext.qext)^*F^{-3}*\sin x^2 + 1/2^*H21b(6,8,8,qext.qext)^*F^{-} \\
& 3^*\sin x^3*\cos x*\sqrt{3} + 3/2^*H21b(6,8,8,qext.qext)^*F^{-3}*\sin x^4 + 3/16^*H21b(7,1,2,qext.qext)^*F^{-} \\
& 3 + 3/16^*H21b(7,4,5,qext.qext)^*F^{-3} + 3/2^*H21b(7,6,6,p1ext.p1ext)^*F^{-3} + \\
& 1/2^*H21b(8,1,4,qext.qext)^*F^{-3}*\sin x*\cos x*\sqrt{3} - 3/8^*H21b(8,1,4,qext.qext)^*F^{-} \\
& 3^*\sin x^2 - H21b(8,2,4,p1ext.p1ext)^*F^{-3}*\sin x*\cos x*\sqrt{3} + 3/4^*H21b(8,2,4,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^2 + 1/2^*H21b(8,2,5,qext.qext)^*F^{-3}*\sin x*\cos x*\sqrt{3} - 3/8^*H21b(8,2,5,qext.qext)^*F^{-} \\
& 3^*\sin x^2 - 1/3^*HH1b(1,1,6,qext.qext)^*F^{-3} - 1/3^*HH1b(1,2,6,p1ext.p1ext)^*F^{-} \\
& 3 + 1/2^*HH1b(1,2,7,qext.qext)^*F^{-3} + 1/2^*HH1b(1,3,4,qext.qext)^*F^{-3} \\
& - HH1b(1,3,4,qext.qext)^*F^{-3}*\sin x^2 + 2/3^*HH1b(1,4,8,qext.qext)^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} + 1/2^*HH1b(2,1,7,qext.qext)^*F^{-3} - 1/3^*HH1b(2,2,6,qext.qext)^*F^{-} \\
& 3 - HH1b(2,3,4,p1ext.p1ext)^*F^{-3} + 2^*HH1b(2,3,4,p1ext.p1ext)^*F^{-3}*\sin x^2 \\
& + 1/2^*HH1b(2,3,5,qext.qext)^*F^{-3} - HH1b(2,3,5,qext.qext)^*F^{-3}*\sin x^2 - \\
& 4/3^*HH1b(2,4,8,p1ext.p1ext)^*F^{-3}*\sin x*\cos x*\sqrt{3} + 2/3^*HH1b(2,5,8,qext.qext)^*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3*\sin x*\cos x*\sqrt{3} + 1/2*HH1b(3,1,4,qext.qext)*F^{-3} + 2/3*HH1b(3,1,4,qext.qext)*F^{-} \\
& 3*\sin x*\cos x*\sqrt{3} - HH1b(3,1,4,qext.qext)*F^{-3*\sin x^2} - HH1b(3,2,4,p1ext.p1ext)*F^{-} \\
& 3 - 4/3*HH1b(3,2,4,p1ext.p1ext)*F^{-3*\sin x*\cos x*\sqrt{3}} + 2*HH1b(3,2,4,p1ext.p1ext)*F^{-} \\
& 3*\sin x^2 + 1/2*HH1b(3,2,5,qext.qext)*F^{-3} + 2/3*HH1b(3,2,5,qext.qext)*F^{-} \\
& 3*\sin x*\cos x*\sqrt{3} - HH1b(3,2,5,qext.qext)*F^{-3*\sin x^2} + 1/3*HH1b(3,3,6,p1ext.p1ext)*F^{-} \\
& 3 - 16/9*HH1b(3,3,6,p1ext.p1ext)*F^{-3*\sin x*\cos x*\sqrt{3}} + 13/3*HH1b(3,3,6,p1ext.p1ext)*F^{-} \\
& 3*\sin x^2 - 8/9*HH1b(3,3,6,p1ext.p1ext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} - 8/3*HH1b(3,3,6,p1ext.p1ext)*F^{-} \\
& 3*\sin x^4 - 1/3*HH1b(3,3,6,qext.qext)*F^{-3} + 16/9*HH1b(3,3,6,qext.qext)*F^{-} \\
& 3*\sin x*\cos x*\sqrt{3} - 13/3*HH1b(3,3,6,qext.qext)*F^{-3*\sin x^2} + 8/9*HH1b(3,3,6,qext.qext)*F^{-} \\
& 3*\sin x^3*\cos x*\sqrt{3} + 8/3*HH1b(3,3,6,qext.qext)*F^{-3*\sin x^4} + 1/2*HH1b(4,1,8,qext.qext)*F^{-} \\
& 3 + 2/3*HH1b(4,1,8,qext.qext)*F^{-3*\sin x*\cos x*\sqrt{3}} - HH1b(4,1,8,qext.qext)*F^{-} \\
& 3*\sin x^2 - HH1b(4,2,8,p1ext.p1ext)*F^{-3} - 4/3*HH1b(4,2,8,p1ext.p1ext)*F^{-} \\
& 3*\sin x*\cos x*\sqrt{3} + 2*HH1b(4,2,8,p1ext.p1ext)*F^{-3*\sin x^2} - 1/3*HH1b(4,4,6,qext.qext)*F^{-} \\
& 3 + 1/2*HH1b(4,5,7,qext.qext)*F^{-3} + 1/2*HH1b(5,2,8,qext.qext)*F^{-3} + \\
& 2/3*HH1b(5,2,8,qext.qext)*F^{-3*\sin x*\cos x*\sqrt{3}} - HH1b(5,2,8,qext.qext)*F^{-} \\
& 3*\sin x^2 - 1/3*HH1b(5,4,6,p1ext.p1ext)*F^{-3} + 1/2*HH1b(5,4,7,qext.qext)*F^{-} \\
& 3 - 1/3*HH1b(5,5,6,qext.qext)*F^{-3} - 1/2*HH1b(6,3,8,p1ext.p1ext)*F^{-3} + \\
& 4/9*HH1b(6,3,8,p1ext.p1ext)*F^{-3*\sin x*\cos x*\sqrt{3}} + 8/3*HH1b(6,3,8,p1ext.p1ext)*F^{-} \\
& 3*\sin x^2 - 8/9*HH1b(6,3,8,p1ext.p1ext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} - 8/3*HH1b(6,3,8,p1ext.p1ext)*F^{-} \\
& 3*\sin x^4 + 1/2*HH1b(6,3,8,qext.qext)*F^{-3} - 4/9*HH1b(6,3,8,qext.qext)*F^{-} \\
& 3*\sin x*\cos x*\sqrt{3} - 8/3*HH1b(6,3,8,qext.qext)*F^{-3*\sin x^2} + 8/9*HH1b(6,3,8,qext.qext)*F^{-} \\
& 3*\sin x^3*\cos x*\sqrt{3} + 8/3*HH1b(6,3,8,qext.qext)*F^{-3*\sin x^4} + 4/3*HH1b(6,6,7,p1ext.p1ext)*F^{-} \\
& 3 + 5/3*HH1b(6,7,7,qext.qext)*F^{-3} - HH1b(6,8,8,p1ext.p1ext)*F^{-3} - \\
& 4/3*HH1b(6,8,8,p1ext.p1ext)*F^{-3*\sin x*\cos x*\sqrt{3}} - 1/2*HH1b(6,8,8,p1ext.p1ext)*F^{-} \\
& 3*\sin x^2 + 4/9*HH1b(6,8,8,p1ext.p1ext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} + 4/3*HH1b(6,8,8,p1ext.p1ext)*F^{-} \\
& 3*\sin x^4 + HH1b(6,8,8,qext.qext)*F^{-3} + 4/3*HH1b(6,8,8,qext.qext)*F^{-} \\
& 3*\sin x*\cos x*\sqrt{3} + 1/2*HH1b(6,8,8,qext.qext)*F^{-3*\sin x^2} - 4/9*HH1b(6,8,8,qext.qext)*F^{-} \\
& 3*\sin x^3*\cos x*\sqrt{3} - 4/3*HH1b(6,8,8,qext.qext)*F^{-3*\sin x^4}) \\
& + \text{mkp}2^2 * (+ 197/98304*F^{-3*\pi^4} + 3/4096*F^{-3*\pi^2} - 7/4*F^{-} \\
& 3*\pi^2*L8r - F^{-3*\pi^2*L7r} - 5/2*F^{-3*\pi^2*L6r} + 17/24*F^{-3*\pi^2*L5r} \\
& + 5/4*F^{-3*\pi^2*L4r} - 89/864*F^{-3*\pi^2*L3r} - 61/144*F^{-3*\pi^2*L2r} \\
& - 1/8*F^{-3*\pi^2*L1r} - 8*F^{-3*L5r^2} - 32*F^{-3*L4r*L5r} - 32*F^{-3*L4r^2} \\
& + 32*F^{-3*CC16} + 16*F^{-3*CC15} + 16*F^{-3*CC14} - 1/1152*\ln(3)*F^{-} \\
& 3*\sin x*\cos x*\sqrt{3}*\pi^4 + 7/9*\ln(3)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^2*L8r} + \\
& 5/3*\ln(3)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^2*L7r} + 1/3*\ln(3)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^2*L6r} \\
& - 13/108*\ln(3)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^2*L5r} - 1/4*\ln(3)*F^{-} \\
& 3*\sin x*\cos x*\sqrt{3}*\pi^2*L4r - 1/18*\ln(3)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^2*L3r} \\
& + 41/18432*\ln(3)*F^{-3*\sin x^2*\pi^4} - 17/9*\ln(3)*F^{-3*\sin x^2*\pi^2*L8r} \\
& - 11/3*\ln(3)*F^{-3*\sin x^2*\pi^2*L7r} - \ln(3)*F^{-3*\sin x^2*\pi^2*L6r} + \\
& 23/72*\ln(3)*F^{-3*\sin x^2*\pi^2*L5r} + 11/36*\ln(3)*F^{-3*\sin x^2*\pi^2*L4r} \\
& + 7/18*\ln(3)*F^{-3*\sin x^2*\pi^2*L3r} + 2/9*\ln(3)*F^{-3*\sin x^2*\pi^2*L2r} + \\
& 8/9*\ln(3)*F^{-3*\sin x^2*\pi^2*L1r} - 8/9*\ln(3)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^2*L8r} \\
& - 8/3*\ln(3)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^2*L7r} + 8/9*\ln(3)*F^{-} \\
& 3*\sin x^4*\pi^2*L8r + 8/3*\ln(3)*F^{-3*\sin x^4*\pi^2*L7r} - 13/18432*\ln(3)^2*F^{-} \\
& 3*\sin x*\cos x*\sqrt{3}*\pi^4 + 65/55296*\ln(3)^2*F^{-3*\sin x^2*\pi^4} - 19/27648*\ln(3)^2*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^{\sin x^3 \cos x \sqrt{3} \pi^{-4}} + 61/27648 \ln(3)^2 F^{-3 \sin x^4 \pi^{-4}} + \\
& 1/864 \ln(3)^2 F^{-3 \sin x^5 \cos x \sqrt{3} \pi^{-4}} - 1/864 \ln(3)^2 F^{-3 \sin x^6 \pi^{-4}} - \\
& 4 + 1/1536 \ln(3) \ln(4) F^{-3 \pi^{-4}} - 7/3072 \ln(3) \ln(4) F^{-3 \sin x \cos x \sqrt{3} \pi^{-4}} - \\
& 4 - 5/2048 \ln(3) \ln(4) F^{-3 \sin x^2 \pi^{-4}} + 5/3456 \ln(3) \ln(4) F^{-3 \sin x^3 \cos x \sqrt{3} \pi^{-4}} - \\
& 4 + 1/1152 \ln(3) \ln(4) F^{-3 \sin x^4 \pi^{-4}} - 1/1536 \ln(3) \ln(6) F^{-3 \pi^{-4}} + \\
& 19/6912 \ln(3) \ln(6) F^{-3 \sin x \cos x \sqrt{3} \pi^{-4}} - 5/9216 \ln(3) \ln(6) F^{-3 \sin x^2 \pi^{-4}} + \\
& 1/3456 \ln(3) \ln(6) F^{-3 \sin x^3 \cos x \sqrt{3} \pi^{-4}} - \\
& 1/384 \ln(3) \ln(6) F^{-3 \sin x^4 \pi^{-4}} - 5/9216 \ln(3) \ln(8) F^{-3 \sin x \cos x \sqrt{3} \pi^{-4}} - \\
& 4 + 5/1536 \ln(3) \ln(8) F^{-3 \sin x^2 \pi^{-4}} + 35/13824 \ln(3) \ln(8) F^{-3 \sin x^3 \cos x \sqrt{3} \pi^{-4}} - \\
& 77/13824 \ln(3) \ln(8) F^{-3 \sin x^4 \pi^{-4}} - \\
& 1/432 \ln(3) \ln(8) F^{-3 \sin x^5 \cos x \sqrt{3} \pi^{-4}} + 1/432 \ln(3) \ln(8) F^{-3 \sin x^6 \pi^{-4}} - \\
& 1/12288 \ln(4) F^{-3 \pi^{-4}} - 1/4 \ln(4) F^{-3 \pi^{-2} L8r} - \\
& 1/2 \ln(4) F^{-3 \pi^{-2} L6r} + 1/16 \ln(4) F^{-3 \pi^{-2} L5r} - 1/8 \ln(4) F^{-3 \pi^{-2} L4r} + \\
& 5/16 \ln(4) F^{-3 \pi^{-2} L3r} + 1/4 \ln(4) F^{-3 \pi^{-2} L2r} + \ln(4) F^{-3 \pi^{-2} L1r} + \\
& 1/4608 \ln(4) F^{-3 \sin x \cos x \sqrt{3} \pi^{-4}} + 1/1536 \ln(4) F^{-3 \sin x^2 \pi^{-4}} - \\
& 1/8192 \ln(4)^2 F^{-3 \pi^{-4}} - 29/18432 \ln(4) \ln(8) F^{-3 \pi^{-4}} + 7/3072 \ln(4) \ln(8) F^{-3 \sin x \cos x \sqrt{3} \pi^{-4}} + \\
& 5/2048 \ln(4) \ln(8) F^{-3 \sin x^2 \pi^{-4}} - 5/3456 \ln(4) \ln(8) F^{-3 \sin x^3 \cos x \sqrt{3} \pi^{-4}} - \\
& 1/1152 \ln(4) \ln(8) F^{-3 \sin x^4 \pi^{-4}} + 1/3072 \ln(6) F^{-3 \pi^{-4}} - 1/2 \ln(6) F^{-3 \pi^{-2} L8r} - \\
& \ln(6) F^{-3 \pi^{-2} L6r} + 1/8 \ln(6) F^{-3 \pi^{-2} L5r} + 1/4 \ln(6) F^{-3 \pi^{-2} L4r} + \\
& 5/8 \ln(6) F^{-3 \pi^{-2} L3r} + 7/8 \ln(6) F^{-3 \pi^{-2} L2r} + 5/4 \ln(6) F^{-3 \pi^{-2} L1r} - \\
& 1/4608 \ln(6) F^{-3 \sin x \cos x \sqrt{3} \pi^{-4}} - 1/1536 \ln(6) F^{-3 \sin x^2 \pi^{-4}} + 1/2048 \ln(6)^2 F^{-3 \pi^{-4}} - 29/9216 \ln(6) \ln(8) F^{-3 \pi^{-4}} - \\
& 19/6912 \ln(6) \ln(8) F^{-3 \sin x \cos x \sqrt{3} \pi^{-4}} + 5/9216 \ln(6) \ln(8) F^{-3 \sin x^2 \pi^{-4}} - \\
& 1/3456 \ln(6) \ln(8) F^{-3 \sin x^3 \cos x \sqrt{3} \pi^{-4}} + 1/384 \ln(6) \ln(8) F^{-3 \sin x^4 \pi^{-4}} + 41/18432 \ln(8) F^{-3 \pi^{-4}} - \\
& \ln(8) F^{-3 \pi^{-2} L8r} - \ln(8) F^{-3 \pi^{-2} L7r} - \ln(8) F^{-3 \pi^{-2} L6r} + 23/72 \ln(8) F^{-3 \pi^{-2} L5r} + \\
& 11/36 \ln(8) F^{-3 \pi^{-2} L4r} + 7/18 \ln(8) F^{-3 \pi^{-2} L3r} + 2/9 \ln(8) F^{-3 \pi^{-2} L2r} + \\
& 8/9 \ln(8) F^{-3 \pi^{-2} L1r} + 1/1152 \ln(8) F^{-3 \sin x \cos x \sqrt{3} \pi^{-4}} - 7/9 \ln(8) F^{-3 \sin x^2 \pi^{-4}} - \\
& 5/3 \ln(8) F^{-3 \sin x^3 \cos x \sqrt{3} \pi^{-4}} - 1/3 \ln(8) F^{-3 \sin x^4 \pi^{-4}} - 2/2 \ln(8) F^{-3 \sin x^5 \cos x \sqrt{3} \pi^{-4}} + \\
& 13/108 \ln(8) F^{-3 \sin x^6 \pi^{-4}} + 1/18 \ln(8) F^{-3 \sin x \cos x \sqrt{3} \pi^{-4}} - 1/4 \ln(8) F^{-3 \sin x^2 \pi^{-4}} - \\
& 41/18432 \ln(8) F^{-3 \sin x^3 \cos x \sqrt{3} \pi^{-4}} + 17/9 \ln(8) F^{-3 \sin x^4 \pi^{-4}} + 17/9 \ln(8) F^{-3 \sin x^5 \cos x \sqrt{3} \pi^{-4}} - \\
& 11/3 \ln(8) F^{-3 \sin x^6 \pi^{-4}} + \ln(8) F^{-3 \sin x^2 \pi^{-4}} - 23/72 \ln(8) F^{-3 \sin x^3 \cos x \sqrt{3} \pi^{-4}} - \\
& 11/36 \ln(8) F^{-3 \sin x^4 \pi^{-4}} - 7/18 \ln(8) F^{-3 \sin x^5 \cos x \sqrt{3} \pi^{-4}} - 2/9 \ln(8) F^{-3 \sin x^6 \pi^{-4}} - \\
& 8/9 \ln(8) F^{-3 \sin x^2 \pi^{-4}} + 8/9 \ln(8) F^{-3 \sin x^3 \cos x \sqrt{3} \pi^{-4}} - 2/2 \ln(8) F^{-3 \sin x^4 \pi^{-4}} + \\
& 8/3 \ln(8) F^{-3 \sin x^5 \cos x \sqrt{3} \pi^{-4}} - 8/9 \ln(8) F^{-3 \sin x^6 \pi^{-4}} - 8/3 \ln(8) F^{-3 \sin x^4 \pi^{-4}} + \\
& 41/18432 \ln(8)^2 F^{-3 \pi^{-4}} + 23/18432 \ln(8)^2 F^{-3 \sin x \cos x \sqrt{3} \pi^{-4}} - 245/55296 \ln(8)^2 F^{-3 \sin x^2 \pi^{-4}} - \\
& 17/9216 \ln(8)^2 F^{-3 \sin x^3 \cos x \sqrt{3} \pi^{-4}} + 31/9216 \ln(8)^2 F^{-3 \sin x^4 \pi^{-4}} + 1/864 \ln(8)^2 F^{-3 \sin x^5 \cos x \sqrt{3} \pi^{-4}} - \\
& 1/864 \ln(8)^2 F^{-3 \sin x^6 \pi^{-4}} + 1/4 \text{Hb}(2,3,4,1, \text{plext.plext}) F^{-3} + 4/9 \text{Hb}(2,3,4,1, \text{plext.plext}) F^{-3 \sin x \cos x \sqrt{3}} - \\
& 2/3 \text{Hb}(2,3,4,1, \text{plext.plext}) F^{-3 \sin x^2} + 1/12 \text{Hb}(2,4,8,1, \text{plext.plext}) F^{-3} + 5/9 \text{Hb}(2,4,8,1, \text{plext.plext}) F^{-3 \sin x \cos x \sqrt{3}} - \\
& 1/3 \text{Hb}(2,4,8,1, \text{plext.plext}) F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^3 \sin^2 x + 1/12 \text{Hb}(3,2,4,1, \text{plext.plext}) * F^{-3} \sin x \cos x \sqrt{3} - 1/16 \text{Hb}(3,3,6,1, \text{plext.plext}) * F^{-3} \\
& + 35/54 \text{Hb}(3,3,6,1, \text{plext.plext}) * F^{-3} \sin x \cos x \sqrt{3} - 61/54 \text{Hb}(3,3,6,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^2 x + 20/27 \text{Hb}(3,3,6,1, \text{plext.plext}) * F^{-3} \sin^4 x + 1/24 \text{Hb}(3,6,8,1, \text{plext.plext}) * F^{-3} \\
& - 8/27 \text{Hb}(3,6,8,1, \text{plext.plext}) * F^{-3} \sin^2 x + 8/27 \text{Hb}(3,6,8,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^4 x - 1/16 \text{Hb}(4,2,3,1, \text{plext.plext}) * F^{-3} + 1/4 \text{Hb}(4,2,3,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^2 x + 3/16 \text{Hb}(4,2,8,1, \text{plext.plext}) * F^{-3} - 1/4 \text{Hb}(4,2,8,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^2 x + 1/8 \text{Hb}(5,4,6,1, \text{plext.plext}) * F^{-3} + 1/64 \text{Hb}(6,3,3,1, \text{plext.plext}) * F^{-3} \\
& - 5/24 \text{Hb}(6,3,3,1, \text{plext.plext}) * F^{-3} \sin x \cos x \sqrt{3} + 11/24 \text{Hb}(6,3,3,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^2 x - 1/3 \text{Hb}(6,3,3,1, \text{plext.plext}) * F^{-3} \sin^4 x + 3/32 \text{Hb}(6,3,8,1, \text{plext.plext}) * F^{-3} \\
& - 2/3 \text{Hb}(6,3,8,1, \text{plext.plext}) * F^{-3} \sin^2 x + 2/3 \text{Hb}(6,3,8,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^4 x + 181/576 \text{Hb}(6,8,8,1, \text{plext.plext}) * F^{-3} + 85/216 \text{Hb}(6,8,8,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin x \cos x \sqrt{3} + 53/216 \text{Hb}(6,8,8,1, \text{plext.plext}) * F^{-3} \sin^2 x - 13/27 \text{Hb}(6,8,8,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^4 x + 1/4 \text{Hb}(7,6,6,1, \text{plext.plext}) * F^{-3} - 1/12 \text{Hb}(8,2,4,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin x \cos x \sqrt{3} + 3/8 \text{H21b}(1,2,6,1, \text{plext.plext}) * F^{-3} + 3/8 \text{H21b}(2,3,4,1, \text{plext.plext}) * F^{-3} \\
& - 1/8 \text{H21b}(2,3,4,1, \text{plext.plext}) * F^{-3} \sin x \cos x \sqrt{3} - 3/8 \text{H21b}(2,3,4,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^2 x + 1/8 \text{H21b}(2,4,8,1, \text{plext.plext}) * F^{-3} \sin x \cos x \sqrt{3} + 3/8 \text{H21b}(2,4,8,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^2 x + 3/8 \text{H21b}(3,2,4,1, \text{plext.plext}) * F^{-3} + 5/8 \text{H21b}(3,2,4,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin x \cos x \sqrt{3} - 3/8 \text{H21b}(3,2,4,1, \text{plext.plext}) * F^{-3} \sin^2 x - 3/16 \text{H21b}(4,2,3,1, \text{plext.plext}) * F^{-3} \\
& - 1/2 \text{H21b}(4,2,3,1, \text{plext.plext}) * F^{-3} \sin x \cos x \sqrt{3} + 3/4 \text{H21b}(4,2,3,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^2 x + 9/16 \text{H21b}(4,2,8,1, \text{plext.plext}) * F^{-3} + 1/2 \text{H21b}(4,2,8,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin x \cos x \sqrt{3} - 3/4 \text{H21b}(4,2,8,1, \text{plext.plext}) * F^{-3} \sin^2 x + 3/8 \text{H21b}(5,4,6,1, \text{plext.plext}) * F^{-3} \\
& + 3/64 \text{H21b}(6,3,3,1, \text{plext.plext}) * F^{-3} - 5/8 \text{H21b}(6,3,3,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin x \cos x \sqrt{3} + 11/8 \text{H21b}(6,3,3,1, \text{plext.plext}) * F^{-3} \sin^2 x - \text{H21b}(6,3,3,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^4 x + 9/32 \text{H21b}(6,3,8,1, \text{plext.plext}) * F^{-3} - 2 \text{H21b}(6,3,8,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^2 x + 2 \text{H21b}(6,3,8,1, \text{plext.plext}) * F^{-3} \sin^4 x + 27/64 \text{H21b}(6,8,8,1, \text{plext.plext}) * F^{-3} \\
& + 5/8 \text{H21b}(6,8,8,1, \text{plext.plext}) * F^{-3} \sin x \cos x \sqrt{3} + 5/8 \text{H21b}(6,8,8,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^2 x - \text{H21b}(6,8,8,1, \text{plext.plext}) * F^{-3} \sin^4 x + 3/4 \text{H21b}(7,6,6,1, \text{plext.plext}) * F^{-3} \\
& - 5/8 \text{H21b}(8,2,4,1, \text{plext.plext}) * F^{-3} \sin x \cos x \sqrt{3} + 3/8 \text{H21b}(8,2,4,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^2 x - 1/2 \text{HH1b}(2,3,4,1, \text{plext.plext}) * F^{-3} - 1/3 \text{HH1b}(2,3,4,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin x \cos x \sqrt{3} + \text{HH1b}(2,3,4,1, \text{plext.plext}) * F^{-3} \sin^2 x - 2/3 \text{HH1b}(2,4,8,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin x \cos x \sqrt{3} - 1/2 \text{HH1b}(3,2,4,1, \text{plext.plext}) * F^{-3} - \text{HH1b}(3,2,4,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin x \cos x \sqrt{3} + \text{HH1b}(3,2,4,1, \text{plext.plext}) * F^{-3} \sin^2 x + 1/4 \text{HH1b}(3,3,6,1, \text{plext.plext}) * F^{-3} \\
& - 5/3 \text{HH1b}(3,3,6,1, \text{plext.plext}) * F^{-3} \sin x \cos x \sqrt{3} + 25/9 \text{HH1b}(3,3,6,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^2 x - 16/9 \text{HH1b}(3,3,6,1, \text{plext.plext}) * F^{-3} \sin^4 x - 1/2 \text{HH1b}(4,2,8,1, \text{plext.plext}) * F^{-3} \\
& - \text{HH1b}(4,2,8,1, \text{plext.plext}) * F^{-3} \sin x \cos x \sqrt{3} + \text{HH1b}(4,2,8,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^2 x - 1/4 \text{HH1b}(6,3,8,1, \text{plext.plext}) * F^{-3} + 16/9 \text{HH1b}(6,3,8,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^2 x - 16/9 \text{HH1b}(6,3,8,1, \text{plext.plext}) * F^{-3} \sin^4 x - 5/8 \text{HH1b}(6,8,8,1, \text{plext.plext}) * F^{-3} \\
& - 5/6 \text{HH1b}(6,8,8,1, \text{plext.plext}) * F^{-3} \sin x \cos x \sqrt{3} - 7/18 \text{HH1b}(6,8,8,1, \text{plext.plext}) * F^{-3} \\
& 3^3 \sin^2 x + 8/9 \text{HH1b}(6,8,8,1, \text{plext.plext}) * F^{-3} \sin^4 x \\
& + \text{mkp}2^3 * (- 5/13824 / (\text{mass}(3))^3 * \ln(3)^2 * F^{-3} \sin x \cos x \sqrt{3} * \pi^{-4} + \\
& 1/512 / (\text{mass}(3))^3 * \ln(3)^2 * F^{-3} \sin^2 x * \pi^{-4} + 7/24576 / (\text{mass}(4))^3 * \ln(4)^2 * F^{-3} \\
& 3 * \pi^{-4} + 11/24576 / (\text{mass}(5))^3 * \ln(4)^2 * F^{-3} * \pi^{-4} + 443/368640 / (\text{mass}(6))^3 * \ln(6)^2 * F^{-3} \\
& 3 * \pi^{-4} + 367/368640 / (\text{mass}(7))^3 * \ln(6)^2 * F^{-3} * \pi^{-4} + 1/512 / (\text{mass}(8))^3 * \ln(8)^2 * F^{-3} \\
& 3 * \pi^{-4} + 5/13824 / (\text{mass}(8))^3 * \ln(8)^2 * F^{-3} \sin x \cos x \sqrt{3} * \pi^{-4} - 1/512 / (\text{mass}(8))^3 * \ln(8)^2 * F^{-3} \\
& 3 \sin^2 x * \pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& + \text{mpp2} * (+ 1/8*\text{Hb}(1,2,6,\text{plext.plext})*\text{F}^{-3} - 1/8*\text{Hb}(1,2,7,\text{qext.qext})*\text{F}^{-3} - \\
& 1/8*\text{Hb}(1,3,4,\text{qext.qext})*\text{F}^{-3} + 25/72*\text{Hb}(1,3,4,\text{qext.qext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} \\
& + 1/8*\text{Hb}(1,3,4,\text{qext.qext})*\text{F}^{-3}*\sin x^2 - 1/72*\text{Hb}(1,4,8,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} - 1/8*\text{Hb}(1,4,8,\text{qext.qext})*\text{F}^{-3}*\sin x^2 - 1/8*\text{Hb}(2,1,7,\text{qext.qext})*\text{F}^{-3} \\
& + 1/8*\text{Hb}(2,3,4,\text{plext.plext})*\text{F}^{-3} - 41/72*\text{Hb}(2,3,4,\text{plext.plext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} - 1/8*\text{Hb}(2,3,4,\text{plext.plext})*\text{F}^{-3}*\sin x^2 - 1/8*\text{Hb}(2,3,5,\text{qext.qext})*\text{F}^{-3} \\
& + 25/72*\text{Hb}(2,3,5,\text{qext.qext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} + 1/8*\text{Hb}(2,3,5,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x^2 - 7/72*\text{Hb}(2,4,8,\text{plext.plext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} + 1/8*\text{Hb}(2,4,8,\text{plext.plext})*\text{F}^{-3} \\
& *3*\sin x^2 - 1/72*\text{Hb}(2,5,8,\text{qext.qext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} - 1/8*\text{Hb}(2,5,8,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x^2 - 1/8*\text{Hb}(3,1,4,\text{qext.qext})*\text{F}^{-3} - 1/24*\text{Hb}(3,1,4,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} + 1/8*\text{Hb}(3,1,4,\text{qext.qext})*\text{F}^{-3}*\sin x^2 + 1/8*\text{Hb}(3,2,4,\text{plext.plext})*\text{F}^{-3} \\
& + 1/24*\text{Hb}(3,2,4,\text{plext.plext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} - 1/8*\text{Hb}(3,2,4,\text{plext.plext})*\text{F}^{-3} \\
& *3*\sin x^2 - 1/8*\text{Hb}(3,2,5,\text{qext.qext})*\text{F}^{-3} - 1/24*\text{Hb}(3,2,5,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} + 1/8*\text{Hb}(3,2,5,\text{qext.qext})*\text{F}^{-3}*\sin x^2 - 17/54*\text{Hb}(3,3,6,\text{plext.plext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} + 5/9*\text{Hb}(3,3,6,\text{plext.plext})*\text{F}^{-3}*\sin x^2 + 5/27*\text{Hb}(3,3,6,\text{plext.plext})*\text{F}^{-3} \\
& *3*\sin x^3*\cos x*\sqrt{3} - 5/9*\text{Hb}(3,3,6,\text{plext.plext})*\text{F}^{-3}*\sin x^4 + 17/54*\text{Hb}(3,3,6,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} - 5/9*\text{Hb}(3,3,6,\text{qext.qext})*\text{F}^{-3}*\sin x^2 - 5/27*\text{Hb}(3,3,6,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x^3*\cos x*\sqrt{3} + 5/9*\text{Hb}(3,3,6,\text{qext.qext})*\text{F}^{-3}*\sin x^4 - 1/27*\text{Hb}(3,6,8,\text{plext.plext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} + 2/9*\text{Hb}(3,6,8,\text{plext.plext})*\text{F}^{-3}*\sin x^2 + 2/27*\text{Hb}(3,6,8,\text{plext.plext})*\text{F}^{-3} \\
& *3*\sin x^3*\cos x*\sqrt{3} - 2/9*\text{Hb}(3,6,8,\text{plext.plext})*\text{F}^{-3}*\sin x^4 + 1/27*\text{Hb}(3,6,8,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} - 2/9*\text{Hb}(3,6,8,\text{qext.qext})*\text{F}^{-3}*\sin x^2 - 2/27*\text{Hb}(3,6,8,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x^3*\cos x*\sqrt{3} + 2/9*\text{Hb}(3,6,8,\text{qext.qext})*\text{F}^{-3}*\sin x^4 + 1/12*\text{Hb}(4,1,3,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} - 1/12*\text{Hb}(4,1,8,\text{qext.qext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} - \\
& 1/12*\text{Hb}(4,2,3,\text{plext.plext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} + 1/12*\text{Hb}(4,2,8,\text{plext.plext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} + 1/12*\text{Hb}(5,2,3,\text{qext.qext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} - \\
& 1/12*\text{Hb}(5,2,8,\text{qext.qext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} + 1/16*\text{Hb}(6,3,3,\text{plext.plext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} - 1/8*\text{Hb}(6,3,3,\text{plext.plext})*\text{F}^{-3}*\sin x^2 - 1/24*\text{Hb}(6,3,3,\text{plext.plext})*\text{F}^{-3} \\
& *3*\sin x^3*\cos x*\sqrt{3} + 1/8*\text{Hb}(6,3,3,\text{plext.plext})*\text{F}^{-3}*\sin x^4 - 1/8*\text{Hb}(6,3,3,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} + 1/4*\text{Hb}(6,3,3,\text{qext.qext})*\text{F}^{-3}*\sin x^2 + 1/12*\text{Hb}(6,3,3,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x^3*\cos x*\sqrt{3} - 1/4*\text{Hb}(6,3,3,\text{qext.qext})*\text{F}^{-3}*\sin x^4 - 1/24*\text{Hb}(6,3,8,\text{plext.plext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} + 1/4*\text{Hb}(6,3,8,\text{plext.plext})*\text{F}^{-3}*\sin x^2 + 1/12*\text{Hb}(6,3,8,\text{plext.plext})*\text{F}^{-3} \\
& *3*\sin x^3*\cos x*\sqrt{3} - 1/4*\text{Hb}(6,3,8,\text{plext.plext})*\text{F}^{-3}*\sin x^4 + 1/12*\text{Hb}(6,3,8,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} - 1/2*\text{Hb}(6,3,8,\text{qext.qext})*\text{F}^{-3}*\sin x^2 - 1/6*\text{Hb}(6,3,8,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x^3*\cos x*\sqrt{3} + 1/2*\text{Hb}(6,3,8,\text{qext.qext})*\text{F}^{-3}*\sin x^4 - 25/432*\text{Hb}(6,8,8,\text{plext.plext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} - 17/72*\text{Hb}(6,8,8,\text{plext.plext})*\text{F}^{-3}*\sin x^2 - 17/216*\text{Hb}(6,8,8,\text{plext.plext})*\text{F}^{-3} \\
& *3*\sin x^3*\cos x*\sqrt{3} + 17/72*\text{Hb}(6,8,8,\text{plext.plext})*\text{F}^{-3}*\sin x^4 + 17/216*\text{Hb}(6,8,8,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} + 13/36*\text{Hb}(6,8,8,\text{qext.qext})*\text{F}^{-3}*\sin x^2 + 13/108*\text{Hb}(6,8,8,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x^3*\cos x*\sqrt{3} - 13/36*\text{Hb}(6,8,8,\text{qext.qext})*\text{F}^{-3}*\sin x^4 + 1/24*\text{Hb}(8,1,4,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} - 1/8*\text{Hb}(8,1,4,\text{qext.qext})*\text{F}^{-3}*\sin x^2 - 1/24*\text{Hb}(8,2,4,\text{plext.plext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} + 1/8*\text{Hb}(8,2,4,\text{plext.plext})*\text{F}^{-3}*\sin x^2 + 1/24*\text{Hb}(8,2,5,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} - 1/8*\text{Hb}(8,2,5,\text{qext.qext})*\text{F}^{-3}*\sin x^2 + 1/8*\text{H21b}(1,3,4,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} - 1/8*\text{H21b}(1,4,8,\text{qext.qext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} - \\
& 1/4*\text{H21b}(2,3,4,\text{plext.plext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} + 1/8*\text{H21b}(2,3,5,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} + 1/4*\text{H21b}(2,4,8,\text{plext.plext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} - \\
& 1/8*\text{H21b}(2,5,8,\text{qext.qext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} + 1/8*\text{H21b}(3,1,4,\text{qext.qext})*\text{F}^{-3} \\
& *3*\sin x*\cos x*\sqrt{3} - 1/4*\text{H21b}(3,2,4,\text{plext.plext})*\text{F}^{-3}*\sin x*\cos x*\sqrt{3} +
\end{aligned}$$

$$\begin{aligned}
& 1/8*H21b(3,2,5,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/4*H21b(4,1,3,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} + \\
& 1/4*H21b(4,1,8,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/2*H21b(4,2,3,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} - \\
& 1/2*H21b(4,2,8,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/4*H21b(5,2,3,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} + \\
& 1/4*H21b(5,2,8,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} + 3/8*H21b(6,3,3,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} - \\
& 3/4*H21b(6,3,3,plext.plext)*F^{-3}*\sin x^2 - 1/4*H21b(6,3,3,plext.plext)*F^{-3}*\sin^3*\cos x*\sqrt{3} + \\
& 3/4*H21b(6,3,3,plext.plext)*F^{-3}*\sin^4 - 3/8*H21b(6,3,3,qext.qext)*F^{-3}*\sin^3*\cos x*\sqrt{3} + \\
& 3/4*H21b(6,3,3,qext.qext)*F^{-3}*\sin^2 + 1/4*H21b(6,3,3,qext.qext)*F^{-3}*\sin^3*\cos x*\sqrt{3} - \\
& 3/4*H21b(6,3,3,qext.qext)*F^{-3}*\sin^4 - 1/4*H21b(6,3,8,plext.plext)*F^{-3}*\sin^3*\cos x*\sqrt{3} + \\
& 3/2*H21b(6,3,8,plext.plext)*F^{-3}*\sin^2 + 1/2*H21b(6,3,8,plext.plext)*F^{-3}*\sin^3*\cos x*\sqrt{3} - \\
& 3/2*H21b(6,3,8,plext.plext)*F^{-3}*\sin^4 + 1/4*H21b(6,3,8,qext.qext)*F^{-3}*\sin^3*\cos x*\sqrt{3} - \\
& 3/2*H21b(6,3,8,qext.qext)*F^{-3}*\sin^2 - 1/2*H21b(6,3,8,qext.qext)*F^{-3}*\sin^3*\cos x*\sqrt{3} + \\
& 3/2*H21b(6,3,8,qext.qext)*F^{-3}*\sin^4 - 1/8*H21b(6,8,8,plext.plext)*F^{-3}*\sin^3*\cos x*\sqrt{3} - \\
& 3/4*H21b(6,8,8,plext.plext)*F^{-3}*\sin^2 - 1/4*H21b(6,8,8,plext.plext)*F^{-3}*\sin^3*\cos x*\sqrt{3} + \\
& 3/4*H21b(6,8,8,plext.plext)*F^{-3}*\sin^4 + 1/8*H21b(6,8,8,qext.qext)*F^{-3}*\sin^3*\cos x*\sqrt{3} + \\
& 3/4*H21b(6,8,8,qext.qext)*F^{-3}*\sin^2 + 1/4*H21b(6,8,8,qext.qext)*F^{-3}*\sin^3*\cos x*\sqrt{3} - \\
& 3/4*H21b(6,8,8,qext.qext)*F^{-3}*\sin^4 - 1/8*H21b(8,1,4,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} + \\
& 1/4*H21b(8,2,4,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/8*H21b(8,2,5,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} - \\
& 1/3*HH1b(1,3,4,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} + 2/3*HH1b(2,3,4,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} - \\
& 1/3*HH1b(2,3,5,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/3*HH1b(3,1,4,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} + \\
& 2/3*HH1b(3,2,4,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/3*HH1b(3,2,5,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} + \\
& 7/9*HH1b(3,3,6,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 4/3*HH1b(3,3,6,plext.plext)*F^{-3}*\sin^2 - \\
& 4/9*HH1b(3,3,6,plext.plext)*F^{-3}*\sin^3*\cos x*\sqrt{3} + 4/3*HH1b(3,3,6,plext.plext)*F^{-3}*\sin^4 - 7/9*HH1b(3,3,6,qext.qext)*F^{-3}*\sin^2*\cos x*\sqrt{3} + \\
& 4/3*HH1b(3,3,6,qext.qext)*F^{-3}*\sin^3*\cos x*\sqrt{3} + 4/9*HH1b(3,3,6,qext.qext)*F^{-3}*\sin^4*\cos x*\sqrt{3} - 4/3*HH1b(3,3,6,qext.qext)*F^{-3}*\sin^2*\cos x*\sqrt{3} + \\
& 2/3*HH1b(3,3,6,qext.qext)*F^{-3}*\sin^3*\cos x*\sqrt{3} - 1/3*HH1b(4,1,8,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} + \\
& 2/3*HH1b(4,2,8,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/3*HH1b(5,2,8,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} + 2/9*HH1b(6,3,8,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} - \\
& 4/3*HH1b(6,3,8,plext.plext)*F^{-3}*\sin^2 - 4/9*HH1b(6,3,8,plext.plext)*F^{-3}*\sin^3*\cos x*\sqrt{3} + 4/3*HH1b(6,3,8,plext.plext)*F^{-3}*\sin^4 - 2/9*HH1b(6,3,8,qext.qext)*F^{-3}*\sin^2*\cos x*\sqrt{3} + \\
& 4/3*HH1b(6,3,8,qext.qext)*F^{-3}*\sin^3*\cos x*\sqrt{3} - 4/3*HH1b(6,3,8,qext.qext)*F^{-3}*\sin^4 + 1/6*HH1b(6,8,8,plext.plext)*F^{-3}*\sin^2*\cos x*\sqrt{3} + 2/3*HH1b(6,8,8,plext.plext)*F^{-3}*\sin^3*\cos x*\sqrt{3} - 2/3*HH1b(6,8,8,plext.plext)*F^{-3}*\sin^4 - 1/6*HH1b(6,8,8,qext.qext)*F^{-3}*\sin^2*\cos x*\sqrt{3} - 2/9*HH1b(6,8,8,qext.qext)*F^{-3}*\sin^3*\cos x*\sqrt{3} + 2/3*HH1b(6,8,8,qext.qext)*F^{-3}*\sin^4) \\
& + mpp2*mkp2 * (- 29/49152*F^{-3}*\pi^{-4} + 1/8192*F^{-3}*\pi^{-2} + F^{-3}*\pi^{-2}*L8r + 2*F^{-3}*\pi^{-2}*L7r - 7/4*F^{-3}*\pi^{-2}*L6r - 1/6*F^{-3}*\pi^{-2}*L5r + 7/8*F^{-3}*\pi^{-2}*L4r + 1/216*F^{-3}*\pi^{-2}*L3r + 1/18*F^{-3}*\pi^{-2}*L2r - 16*F^{-3}*L4r*L5r - 32*F^{-3}*L4r^2 + 16*F^{-3}*CC17 - 32*F^{-3}*CC16 + 8*F^{-3}*CC15 - 16*F^{-3}*CC14 + 5/4096*\ln(1)*F^{-3}*\pi^{-4} - 1/2*\ln(1)*F^{-3}*\pi^{-2}*L6r - 1/16*\ln(1)*F^{-3}*\pi^{-2}*L5r + 3/8*\ln(1)*F^{-3}*\pi^{-2}*L4r + 1/2304*\ln(1)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 11/18432*\ln(1)*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 5/18432*\ln(1)*\ln(3)*F^{-3}*\sin^2*\pi^{-4} - 1/2304*\ln(1)*\ln(3)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} + 1/2304*\ln(1)*\ln(3)*F^{-3}*\sin x^4*\pi^{-4} + \\
& 1/4096*\ln(1)*\ln(4)*F^{-3}*\pi^{-4} + 13/18432*\ln(1)*\ln(8)*F^{-3}*\pi^{-4} - 11/18432*\ln(1)*\ln(8)*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 5/18432*\ln(1)*\ln(8)*F^{-3}*\sin x^2*\pi^{-4} + 1/2304*\ln(1)*\ln(8)*F^{-3} \\
& 3^*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} - 1/2304*\ln(1)*\ln(8)*F^{-3}*\sin x^4*\pi^{-4} + \\
& 5/8192*\ln(3)*F^{-3}*\pi^{-4} - 1/4*\ln(3)*F^{-3}*\pi^{-2}*L6r - 1/32*\ln(3)*F^{-3}*\pi^{-2} \\
& 2^*L5r + 3/16*\ln(3)*F^{-3}*\pi^{-2}*L4r + 5/18432*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} \\
& - 11/9*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L8r - 10/3*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2} \\
& 2^*L7r + 1/3*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L6r + 7/216*\ln(3)*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L5r - 1/4*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L4r + \\
& 1/36*\ln(3)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L3r - 35/36864*\ln(3)*F^{-3}*\sin x^2*\pi^{-4} \\
& + 25/9*\ln(3)*F^{-3}*\sin x^2*\pi^{-2}*L8r + 22/3*\ln(3)*F^{-3}*\sin x^2*\pi^{-2}*L7r \\
& - 19/144*\ln(3)*F^{-3}*\sin x^2*\pi^{-2}*L5r + 2/9*\ln(3)*F^{-3}*\sin x^2*\pi^{-2}*L4r \\
& - 7/36*\ln(3)*F^{-3}*\sin x^2*\pi^{-2}*L3r - 1/9*\ln(3)*F^{-3}*\sin x^2*\pi^{-2}*L2r - \\
& 4/9*\ln(3)*F^{-3}*\sin x^2*\pi^{-2}*L1r + 16/9*\ln(3)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-2} \\
& 2^*L8r + 16/3*\ln(3)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-2}*L7r - 16/9*\ln(3)*F^{-3} \\
& 3^*\sin x^4*\pi^{-2}*L8r - 16/3*\ln(3)*F^{-3}*\sin x^4*\pi^{-2}*L7r + 1/1024*\ln(3)^2*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 179/110592*\ln(3)^2*F^{-3}*\sin x^2*\pi^{-4} - 19/27648*\ln(3)^2*F^{-3} \\
& 3^*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} - 11/27648*\ln(3)^2*F^{-3}*\sin x^4*\pi^{-4} - 1/1728*\ln(3)^2*F^{-3} \\
& 3^*\sin x^5*\cos x*\sqrt{3}*\pi^{-4} + 1/1728*\ln(3)^2*F^{-3}*\sin x^6*\pi^{-4} + 11/24576*\ln(3)*\ln(4)*F^{-3} \\
& 3^*\pi^{-4} + 1/768*\ln(3)*\ln(4)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 65/36864*\ln(3)*\ln(4)*F^{-3} \\
& 3^*\sin x^2*\pi^{-4} - 11/6912*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} + \\
& 1/768*\ln(3)*\ln(4)*F^{-3}*\sin x^4*\pi^{-4} - 1/3072*\ln(3)*\ln(6)*F^{-3}*\pi^{-4} - \\
& 11/27648*\ln(3)*\ln(6)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 13/18432*\ln(3)*\ln(6)*F^{-3} \\
& 3^*\sin x^2*\pi^{-4} - 5/3456*\ln(3)*\ln(6)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} + \\
& 1/576*\ln(3)*\ln(6)*F^{-3}*\sin x^4*\pi^{-4} + 13/36864*\ln(3)*\ln(8)*F^{-3}*\pi^{-4} \\
& + 1/9216*\ln(3)*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 1/512*\ln(3)*\ln(8)*F^{-3} \\
& 3^*\sin x^2*\pi^{-4} - 13/13824*\ln(3)*\ln(8)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} + \\
& 43/13824*\ln(3)*\ln(8)*F^{-3}*\sin x^4*\pi^{-4} + 1/864*\ln(3)*\ln(8)*F^{-3}*\sin x^5*\cos x*\sqrt{3}*\pi^{-4} \\
& - 1/864*\ln(3)*\ln(8)*F^{-3}*\sin x^6*\pi^{-4} + 1/768*\ln(4)*F^{-3}*\pi^{-4} - \\
& 1/4*\ln(4)*F^{-3}*\pi^{-2}*L6r + 3/16*\ln(4)*F^{-3}*\pi^{-2}*L4r - 1/2304*\ln(4)*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 1/1536*\ln(4)*F^{-3}*\sin x^2*\pi^{-4} + 11/73728*\ln(4)*\ln(8)*F^{-3} \\
& 3^*\pi^{-4} - 1/768*\ln(4)*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 65/36864*\ln(4)*\ln(8)*F^{-3} \\
& 3^*\sin x^2*\pi^{-4} + 11/6912*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} - \\
& 1/768*\ln(4)*\ln(8)*F^{-3}*\sin x^4*\pi^{-4} + 1/6144*\ln(6)*F^{-3}*\pi^{-4} - 1/2*\ln(6)*F^{-3} \\
& 3^*\pi^{-2}*L6r + 3/8*\ln(6)*F^{-3}*\pi^{-2}*L4r + 1/1536*\ln(6)*F^{-3}*\sin x^2*\pi^{-4} + \\
& 5/9216*\ln(6)*\ln(8)*F^{-3}*\pi^{-4} + 11/27648*\ln(6)*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} \\
& + 13/18432*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\pi^{-4} + 5/3456*\ln(6)*\ln(8)*F^{-3} \\
& 3^*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} - 1/576*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\pi^{-4} - 25/73728*\ln(8)*F^{-3} \\
& 3^*\pi^{-4} + \ln(8)*F^{-3}*\pi^{-2}*L8r + 2*\ln(8)*F^{-3}*\pi^{-2}*L7r - 1/4*\ln(8)*F^{-3} \\
& 3^*\pi^{-2}*L6r - 47/288*\ln(8)*F^{-3}*\pi^{-2}*L5r + 59/144*\ln(8)*F^{-3}*\pi^{-2}*L4r \\
& - 7/36*\ln(8)*F^{-3}*\pi^{-2}*L3r - 1/9*\ln(8)*F^{-3}*\pi^{-2}*L2r - 4/9*\ln(8)*F^{-3} \\
& 3^*\pi^{-2}*L1r - 5/18432*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 11/9*\ln(8)*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L8r + 10/3*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2} \\
& 2^*L7r - 1/3*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L6r - 7/216*\ln(8)*F^{-3} \\
& 3^*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L5r + 1/4*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L4r - \\
& 1/36*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L3r + 35/36864*\ln(8)*F^{-3}*\sin x^2*\pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4 - 25/9*\ln(8)*F^{-3}*\sinx^2*\pi^{-2}*L8r - 22/3*\ln(8)*F^{-3}*\sinx^2*\pi^{-2}*L7r \\
& + 19/144*\ln(8)*F^{-3}*\sinx^2*\pi^{-2}*L5r - 2/9*\ln(8)*F^{-3}*\sinx^2*\pi^{-2}*L4r \\
& + 7/36*\ln(8)*F^{-3}*\sinx^2*\pi^{-2}*L3r + 1/9*\ln(8)*F^{-3}*\sinx^2*\pi^{-2}*L2r + \\
& 4/9*\ln(8)*F^{-3}*\sinx^2*\pi^{-2}*L1r - 16/9*\ln(8)*F^{-3}*\sinx^3*\cosx*\sqrt{3}*\pi^{-2} \\
& *L8r - 16/3*\ln(8)*F^{-3}*\sinx^3*\cosx*\sqrt{3}*\pi^{-2}*L7r + 16/9*\ln(8)*F^{-3} \\
& *sinx^4*\pi^{-2}*L8r + 16/3*\ln(8)*F^{-3}*\sinx^4*\pi^{-2}*L7r - 53/36864*\ln(8)^2 *F^{-3} \\
& *pi^{-4} - 5/4608*\ln(8)^2 *F^{-3}*\sinx*\cosx*\sqrt{3}*\pi^{-4} + 395/110592*\ln(8)^2 *F^{-3} \\
& *sinx^2*\pi^{-4} + 5/3072*\ln(8)^2 *F^{-3}*\sinx^3*\cosx*\sqrt{3}*\pi^{-4} - 25/9216*\ln(8)^2 *F^{-3} \\
& *sinx^4*\pi^{-4} - 1/1728*\ln(8)^2 *F^{-3}*\sinx^5*\cosx*\sqrt{3}*\pi^{-4} + 1/1728*\ln(8)^2 *F^{-3} \\
& *sinx^6*\pi^{-4} + 1/8*Hb(1,2,6,1,plext.plext)*F^{-3} + 1/8*Hb(2,3,4,1,plext.plext)*F^{-3} \\
& - 19/36*Hb(2,3,4,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 1/8*Hb(2,3,4,1,plext.plext)*F^{-3} \\
& *sinx^2 - 5/36*Hb(2,4,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 1/8*Hb(2,4,8,1,plext.plext)*F^{-3} \\
& *sinx^2 + 1/8*Hb(3,2,4,1,plext.plext)*F^{-3} + 1/12*Hb(3,2,4,1,plext.plext)*F^{-3} \\
& *sinx*\cosx*\sqrt{3} - 1/8*Hb(3,2,4,1,plext.plext)*F^{-3}*\sinx^2 - 4/9*Hb(3,3,6,1,plext.plext)*F^{-3} \\
& *sinx*\cosx*\sqrt{3} + 10/27*Hb(3,3,6,1,plext.plext)*F^{-3}*\sinx^2 + 10/27*Hb(3,3,6,1,plext.plext)*F^{-3} \\
& *sinx^3*\cosx*\sqrt{3} - 10/27*Hb(3,3,6,1,plext.plext)*F^{-3}*\sinx^4 - 2/27*Hb(3,6,8,1,plext.plext)*F^{-3} \\
& *sinx*\cosx*\sqrt{3} + 4/27*Hb(3,6,8,1,plext.plext)*F^{-3}*\sinx^2 + 4/27*Hb(3,6,8,1,plext.plext)*F^{-3} \\
& *sinx^3*\cosx*\sqrt{3} - 4/27*Hb(3,6,8,1,plext.plext)*F^{-3}*\sinx^4 + 1/6*Hb(6,3,3,1,plext.plext)*F^{-3} \\
& *sinx*\cosx*\sqrt{3} - 1/6*Hb(6,3,3,1,plext.plext)*F^{-3}*\sinx^2 - 1/6*Hb(6,3,3,1,plext.plext)*F^{-3} \\
& *sinx^3*\cosx*\sqrt{3} + 1/6*Hb(6,3,3,1,plext.plext)*F^{-3}*\sinx^4 - 1/6*Hb(6,3,8,1,plext.plext)*F^{-3} \\
& *sinx*\cosx*\sqrt{3} + 1/3*Hb(6,3,8,1,plext.plext)*F^{-3}*\sinx^2 + 1/3*Hb(6,3,8,1,plext.plext)*F^{-3} \\
& *sinx^3*\cosx*\sqrt{3} - 1/3*Hb(6,3,8,1,plext.plext)*F^{-3}*\sinx^4 - 1/27*Hb(6,8,8,1,plext.plext)*F^{-3} \\
& *sinx*\cosx*\sqrt{3} - 13/54*Hb(6,8,8,1,plext.plext)*F^{-3}*\sinx^2 - 13/54*Hb(6,8,8,1,plext.plext)*F^{-3} \\
& *sinx^3*\cosx*\sqrt{3} + 13/54*Hb(6,8,8,1,plext.plext)*F^{-3}*\sinx^4 - 1/12*Hb(8,2,4,1,plext.plext)*F^{-3} \\
& *sinx*\cosx*\sqrt{3} + 1/8*Hb(8,2,4,1,plext.plext)*F^{-3}*\sinx^2 - 1/4*H21b(2,3,4,1,plext.plext)*F^{-3} \\
& *sinx*\cosx*\sqrt{3} + 1/4*H21b(2,4,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - \\
& 1/4*H21b(3,2,4,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 1/2*H21b(4,2,3,1,plext.plext)*F^{-3} \\
& *sinx*\cosx*\sqrt{3} - 1/2*H21b(4,2,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + \\
& 1/2*H21b(6,3,3,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 1/2*H21b(6,3,3,1,plext.plext)*F^{-3} \\
& *sinx^2 - 1/2*H21b(6,3,3,1,plext.plext)*F^{-3}*\sinx^3*\cosx*\sqrt{3} + 1/2*H21b(6,3,3,1,plext.plext)*F^{-3} \\
& *sinx^4 - 1/2*H21b(6,3,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + H21b(6,3,8,1,plext.plext)*F^{-3} \\
& *sinx^2 + H21b(6,3,8,1,plext.plext)*F^{-3}*\sinx^3*\cosx*\sqrt{3} - H21b(6,3,8,1,plext.plext)*F^{-3} \\
& *sinx^4 - 1/2*H21b(6,8,8,1,plext.plext)*F^{-3}*\sinx^2 - 1/2*H21b(6,8,8,1,plext.plext)*F^{-3} \\
& *sinx^3*\cosx*\sqrt{3} + 1/2*H21b(6,8,8,1,plext.plext)*F^{-3}*\sinx^4 + \\
& 1/4*H21b(8,2,4,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 2/3*HH1b(2,3,4,1,plext.plext)*F^{-3} \\
& *sinx*\cosx*\sqrt{3} + 2/3*HH1b(3,2,4,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + \\
& 10/9*HH1b(3,3,6,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - 8/9*HH1b(3,3,6,1,plext.plext)*F^{-3} \\
& *sinx^2 - 8/9*HH1b(3,3,6,1,plext.plext)*F^{-3}*\sinx^3*\cosx*\sqrt{3} + \\
& 8/9*HH1b(3,3,6,1,plext.plext)*F^{-3}*\sinx^4 + 2/3*HH1b(4,2,8,1,plext.plext)*F^{-3} \\
& *sinx*\cosx*\sqrt{3} + 4/9*HH1b(6,3,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} - \\
& 8/9*HH1b(6,3,8,1,plext.plext)*F^{-3}*\sinx^2 - 8/9*HH1b(6,3,8,1,plext.plext)*F^{-3} \\
& *sinx^3*\cosx*\sqrt{3} + 8/9*HH1b(6,3,8,1,plext.plext)*F^{-3}*\sinx^4 + \\
& 1/9*HH1b(6,8,8,1,plext.plext)*F^{-3}*\sinx*\cosx*\sqrt{3} + 4/9*HH1b(6,8,8,1,plext.plext)*F^{-3} \\
& *sinx^2 + 4/9*HH1b(6,8,8,1,plext.plext)*F^{-3}*\sinx^3*\cosx*\sqrt{3} - \\
& 4/9*HH1b(6,8,8,1,plext.plext)*F^{-3}*\sinx^4)
\end{aligned}$$

$$\begin{aligned}
& + \text{mpp2}^* \text{mkp2}^2 * (+ 1/9216/(\text{mass}(3))^* \ln(3)^2 * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} - \\
& 1/1024/(\text{mass}(3))^* \ln(3)^2 * F^{-3} * \sin x^2 * \pi^{-4} + 1/12288/(\text{mass}(4))^* \ln(4)^2 * F^{-3} * \pi^{-4} + 5/12288/(\text{mass}(5))^* \ln(4)^2 * F^{-3} * \pi^{-4} - 71/368640/(\text{mass}(6))^* \ln(6)^2 * F^{-3} * \pi^{-4} + 161/368640/(\text{mass}(7))^* \ln(6)^2 * F^{-3} * \pi^{-4} - 1/1024/(\text{mass}(8))^* \ln(8)^2 * F^{-3} * \pi^{-4} - 1/9216/(\text{mass}(8))^* \ln(8)^2 * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} + 1/1024/(\text{mass}(8))^* \ln(8)^2 * F^{-3} * \sin x^2 * \pi^{-4}) \\
& + \text{mpp2}^2 * (+ 13/12288 * F^{-3} * \pi^{-4} + 1/4096 * F^{-3} * \pi^{-2} - 3/4 * F^{-3} * \pi^{-2} * L_8r - F^{-3} * \pi^{-2} * L_7r - 1/4 * F^{-3} * \pi^{-2} * L_6r + 5/24 * F^{-3} * \pi^{-2} * L_5r + 1/8 * F^{-3} * \pi^{-2} * L_4r - 41/864 * F^{-3} * \pi^{-2} * L_3r - 7/36 * F^{-3} * \pi^{-2} * L_2r - 8 * F^{-3} * L_4r^2 - 8 * F^{-3} * CC17 + 24 * F^{-3} * CC16 + 8 * F^{-3} * CC14 - 1/4 * \ln(1) * F^{-3} * \pi^{-2} * L_8r - 1/4 * \ln(1) * F^{-3} * \pi^{-2} * L_6r + 1/8 * \ln(1) * F^{-3} * \pi^{-2} * L_5r - 5/16 * \ln(1) * F^{-3} * \pi^{-2} * L_4r + 5/16 * \ln(1) * F^{-3} * \pi^{-2} * L_3r + 1/4 * \ln(1) * F^{-3} * \pi^{-2} * L_2r + \ln(1) * F^{-3} * \pi^{-2} * L_1r - 1/2304 * \ln(1) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} - 1/8192 * \ln(1)^2 * F^{-3} * \pi^{-4} - 11/8192 * \ln(1) * \ln(3) * F^{-3} * \pi^{-4} - 13/36864 * \ln(1) * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} + 101/36864 * \ln(1) * \ln(3) * F^{-3} * \sin x^2 * \pi^{-4} + 5/4608 * \ln(1) * \ln(3) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-4} - 5/4608 * \ln(1) * \ln(3) * F^{-3} * \sin x^4 * \pi^{-4} + 23/73728 * \ln(1) * \ln(8) * F^{-3} * \pi^{-4} + 13/36864 * \ln(1) * \ln(8) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} - 101/36864 * \ln(1) * \ln(8) * F^{-3} * \sin x^2 * \pi^{-4} - 5/4608 * \ln(1) * \ln(8) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-4} + 5/4608 * \ln(1) * \ln(8) * F^{-3} * \sin x^4 * \pi^{-4} - 1/8 * \ln(3) * F^{-3} * \pi^{-2} * L_8r - 1/8 * \ln(3) * F^{-3} * \pi^{-2} * L_6r + 1/16 * \ln(3) * F^{-3} * \pi^{-2} * L_5r - 5/32 * \ln(3) * F^{-3} * \pi^{-2} * L_4r + 5/32 * \ln(3) * F^{-3} * \pi^{-2} * L_3r + 1/8 * \ln(3) * F^{-3} * \pi^{-2} * L_2r + 1/2 * \ln(3) * F^{-3} * \pi^{-2} * L_1r - 23/36864 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} + 25/36 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L_8r + 5/3 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L_7r + 1/12 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L_6r - 25/432 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L_5r - 1/16 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L_4r - 5/144 * \ln(3) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-2} * L_3r - 1/18432 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-4} - 41/36 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L_8r - 11/3 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L_7r + 1/4 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L_6r - 1/24 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L_5r + 5/144 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L_4r - 19/144 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L_3r - 1/9 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L_2r - 4/9 * \ln(3) * F^{-3} * \sin x^2 * \pi^{-2} * L_1r - 8/9 * \ln(3) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-2} * L_8r - 8/3 * \ln(3) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-2} * L_7r + 8/9 * \ln(3) * F^{-3} * \sin x^4 * \pi^{-2} * L_8r + 8/3 * \ln(3) * F^{-3} * \sin x^4 * \pi^{-2} * L_7r + 9/32768 * \ln(3)^2 * F^{-3} * \pi^{-4} - 65/73728 * \ln(3)^2 * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} + 157/110592 * \ln(3)^2 * F^{-3} * \sin x^2 * \pi^{-4} + 125/110592 * \ln(3)^2 * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-4} - 227/110592 * \ln(3)^2 * F^{-3} * \sin x^4 * \pi^{-4} - 1/1728 * \ln(3)^2 * F^{-3} * \sin x^5 * \cos x * \sqrt{3} * \pi^{-4} + 1/1728 * \ln(3)^2 * F^{-3} * \sin x^6 * \pi^{-4} + 1/12288 * \ln(3) * \ln(4) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} + 1/1152 * \ln(3) * \ln(4) * F^{-3} * \sin x^2 * \pi^{-4} + 1/6912 * \ln(3) * \ln(4) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-4} - 1/1152 * \ln(3) * \ln(4) * F^{-3} * \sin x^4 * \pi^{-4} + 5/55296 * \ln(3) * \ln(6) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} - 1/4608 * \ln(3) * \ln(6) * F^{-3} * \sin x^2 * \pi^{-4} + 7/13824 * \ln(3) * \ln(6) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-4} + 1/4608 * \ln(3) * \ln(6) * F^{-3} * \sin x^4 * \pi^{-4} + 23/147456 * \ln(3) * \ln(8) * F^{-3} * \pi^{-4} + 7/36864 * \ln(3) * \ln(8) * F^{-3} * \sin x * \cos x * \sqrt{3} * \pi^{-4} - 11/6144 * \ln(3) * \ln(8) * F^{-3} * \sin x^2 * \pi^{-4} - 61/55296 * \ln(3) * \ln(8) * F^{-3} * \sin x^3 * \cos x * \sqrt{3} * \pi^{-4} + 163/55296 * \ln(3) * \ln(8) * F^{-3} * \sin x^4 * \pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& + 1/864*\ln(3)*\ln(8)*F^{-3*\sin x^5*\cos x*\sqrt{3}*pi^{-4}} - 1/864*\ln(3)*\ln(8)*F^{-3*\sin x^6*pi^{-4}} + 1/4608*\ln(4)*F^{-3*\sin x*\cos x*\sqrt{3}*pi^{-4}} - 1/12288*\ln(4)*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*pi^{-4}} - 1/1152*\ln(4)*\ln(8)*F^{-3*\sin x^2*pi^{-4}} - 1/6912*\ln(4)*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*pi^{-4}} + 1/1152*\ln(4)*\ln(8)*F^{-3*\sin x^4*pi^{-4}} + 1/4608*\ln(6)*F^{-3*\sin x*\cos x*\sqrt{3}*pi^{-4}} - 5/55296*\ln(6)*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*pi^{-4}} + 1/4608*\ln(6)*\ln(8)*F^{-3*\sin x^2*pi^{-4}} - 7/13824*\ln(6)*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*pi^{-4}} - 1/4608*\ln(6)*\ln(8)*F^{-3*\sin x^4*pi^{-4}} - 1/18432*\ln(8)*F^{-3*pi^{-4}} - 3/8*\ln(8)*F^{-3*pi^{-2}*L8r} - \ln(8)*F^{-3*pi^{-2}*L7r} + 1/8*\ln(8)*F^{-3*pi^{-2}*L6r} + 1/48*\ln(8)*F^{-3*pi^{-2}*L5r} - 35/288*\ln(8)*F^{-3*pi^{-2}*L4r} + 7/288*\ln(8)*F^{-3*pi^{-2}*L3r} + 1/72*\ln(8)*F^{-3*pi^{-2}*L2r} + 1/18*\ln(8)*F^{-3*pi^{-2}*L1r} + 23/36864*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*pi^{-4}} - 25/36*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*pi^{-2}*L8r} - 5/3*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*pi^{-2}*L7r} - 1/12*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*pi^{-2}*L6r} + 25/432*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*pi^{-2}*L5r} + 1/16*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*pi^{-2}*L4r} + 5/144*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*pi^{-2}*L3r} + 1/18432*\ln(8)*F^{-3*\sin x^2*pi^{-4}} + 41/36*\ln(8)*F^{-3*\sin x^2*pi^{-2}*L8r} + 11/3*\ln(8)*F^{-3*\sin x^2*pi^{-2}*L7r} - 1/4*\ln(8)*F^{-3*\sin x^2*pi^{-2}*L6r} + 1/24*\ln(8)*F^{-3*\sin x^2*pi^{-2}*L5r} - 5/144*\ln(8)*F^{-3*\sin x^2*pi^{-2}*L4r} + 19/144*\ln(8)*F^{-3*\sin x^2*pi^{-2}*L3r} + 1/9*\ln(8)*F^{-3*\sin x^2*pi^{-2}*L2r} + 4/9*\ln(8)*F^{-3*\sin x^2*pi^{-2}*L1r} + 8/9*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*pi^{-2}*L8r} + 8/3*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*pi^{-2}*L7r} - 8/9*\ln(8)*F^{-3*\sin x^4*pi^{-2}*L8r} - 8/3*\ln(8)*F^{-3*\sin x^4*pi^{-2}*L7r} + 65/294912*\ln(8)^2*F^{-3*pi^{-4}} + 17/24576*\ln(8)^2*F^{-3*\sin x*\cos x*\sqrt{3}*pi^{-4}} + 41/110592*\ln(8)^2*F^{-3*\sin x^2*pi^{-4}} - 1/36864*\ln(8)^2*F^{-3*\sin x^3*\cos x*\sqrt{3}*pi^{-4}} - 11/12288*\ln(8)^2*F^{-3*\sin x^4*pi^{-4}} - 1/1728*\ln(8)^2*F^{-3*\sin x^5*\cos x*\sqrt{3}*pi^{-4}} + 1/1728*\ln(8)^2*F^{-3*\sin x^6*pi^{-4}} - 1/24*Hb(2,3,4,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} + 1/24*Hb(2,4,8,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} - 1/24*Hb(3,2,4,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} + 5/108*Hb(3,3,6,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} + 5/54*Hb(3,3,6,1,plext.plext)*F^{-3*\sin x^2} - 5/54*Hb(3,3,6,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} - 5/54*Hb(3,3,6,1,plext.plext)*F^{-3*\sin x^4} + 1/54*Hb(3,6,8,1,plext.plext)*F^{-3*\sin x^2*\cos x*\sqrt{3}} + 1/27*Hb(3,6,8,1,plext.plext)*F^{-3*\sin x^2} - 1/27*Hb(3,6,8,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} - 1/27*Hb(3,6,8,1,plext.plext)*F^{-3*\sin x^4} - 1/48*Hb(6,3,3,1,plext.plext)*F^{-3*\sin x^2*\cos x*\sqrt{3}} - 1/24*Hb(6,3,3,1,plext.plext)*F^{-3*\sin x^2} + 1/24*Hb(6,3,3,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} + 1/24*Hb(6,3,3,1,plext.plext)*F^{-3*\sin x^4} + 1/24*Hb(6,3,8,1,plext.plext)*F^{-3*\sin x^2*\cos x*\sqrt{3}} + 1/12*Hb(6,3,8,1,plext.plext)*F^{-3*\sin x^2} - 1/12*Hb(6,3,8,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} - 1/12*Hb(6,3,8,1,plext.plext)*F^{-3*\sin x^4} - 13/432*Hb(6,8,8,1,plext.plext)*F^{-3*\sin x^2*\cos x*\sqrt{3}} - 13/216*Hb(6,8,8,1,plext.plext)*F^{-3*\sin x^2} + 13/216*Hb(6,8,8,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} + 13/216*Hb(6,8,8,1,plext.plext)*F^{-3*\sin x^4} + 1/24*Hb(8,2,4,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} - 1/16*H21b(6,3,3,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} - 1/8*H21b(6,3,3,1,plext.plext)*F^{-3*\sin x^2} + 1/8*H21b(6,3,3,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} + 1/8*H21b(6,3,3,1,plext.plext)*F^{-3*\sin x^4} + 1/8*H21b(6,3,8,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} + 1/4*H21b(6,3,8,1,plext.plext)*F^{-3*\sin x^2} - 1/4*H21b(6,3,8,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} - 1/4*H21b(6,3,8,1,plext.plext)*F^{-3*\sin x^4} - 1/16*H21b(6,8,8,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} - 1/8*H21b(6,8,8,1,plext.plext)*F^{-3*\sin x^2} + 1/8*H21b(6,8,8,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} + 1/8*H21b(6,8,8,1,plext.plext)*F^{-3*\sin x^4} - 1/9*HH1b(3,3,6,1,plext.plext)*F^{-3*\sin x*\cos x*\sqrt{3}} - 2/9*HH1b(3,3,6,1,plext.plext)*F^{-3*\sin x^2} + 2/9*HH1b(3,3,6,1,plext.plext)*F^{-3*\sin x^3*\cos x*\sqrt{3}} - 2/9*HH1b(3,3,6,1,plext.plext)*F^{-3*\sin x^4}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin^3*\cos^*\sqrt{3} + 2/9*HH1b(3,3,6,1,plext.plext)*F^{-3*\sin^4} - \\
& 1/9*HH1b(6,3,8,1,plext.plext)*F^{-3*\sin*\cos*\sqrt{3}} - 2/9*HH1b(6,3,8,1,plext.plext)*F^{-3*\sin^2} + \\
& 2/9*HH1b(6,3,8,1,plext.plext)*F^{-3*\sin^3*\cos*\sqrt{3}} + 2/9*HH1b(6,3,8,1,plext.plext)*F^{-3*\sin^4} + \\
& 1/18*HH1b(6,8,8,1,plext.plext)*F^{-3*\sin*\cos*\sqrt{3}} + 1/9*HH1b(6,8,8,1,plext.plext)*F^{-3*\sin^2} - \\
& 1/9*HH1b(6,8,8,1,plext.plext)*F^{-3*\sin^3*\cos*\sqrt{3}} - 1/9*HH1b(6,8,8,1,plext.plext)*F^{-3*\sin^4}) \\
& + mpp2^2*mkp2 * (+ 1/4096/(mass(1))*\ln(1)^2*F^{-3*\pi^4} + 1/8192/(mass(3))*\ln(3)^2*F^{-3*\pi^4} - \\
& 1/9216/(mass(3))*\ln(3)^2*F^{-3*\sin*\cos*\sqrt{3}}*\pi^4 + 1/8192/(mass(8))*\ln(8)^2*F^{-3*\pi^4} + \\
& 1/9216/(mass(8))*\ln(8)^2*F^{-3*\sin*\cos*\sqrt{3}}*\pi^4) \\
& + mpp2^3 * (+ 5/8192/(mass(1))*\ln(1)^2*F^{-3*\pi^4} + 3/8192/(mass(2))*\ln(1)^2*F^{-3*\pi^4} + \\
& 1/2048/(mass(3))*\ln(3)^2*F^{-3*\pi^4} - 7/55296/(mass(3))*\ln(3)^2*F^{-3*\sin*\cos*\sqrt{3}}*\pi^4 + \\
& 1/2048/(mass(3))*\ln(3)^2*F^{-3*\sin^2*\pi^4} + 7/55296/(mass(8))*\ln(8)^2*F^{-3*\sin*\cos*\sqrt{3}}*\pi^4 + \\
& 1/2048/(mass(8))*\ln(8)^2*F^{-3*\sin^2*\pi^4}) \\
& + mud * (- 1/8*Hb(1,1,6,qext.qext)*F^{-3} + 1/4*Hb(1,2,7,qext.qext)*F^{-3} + \\
& 1/12*Hb(1,3,4,qext.qext)*F^{-3} + 1/9*Hb(1,3,4,qext.qext)*F^{-3*\sin*\cos*\sqrt{3}} - \\
& 1/3*Hb(1,3,4,qext.qext)*F^{-3*\sin^2} + 7/18*Hb(1,4,8,qext.qext)*F^{-3*\sin*\cos*\sqrt{3}} - \\
& 1/6*Hb(1,4,8,qext.qext)*F^{-3*\sin^2} - 1/8*Hb(2,2,6,qext.qext)*F^{-3} - 1/6*Hb(2,3,4,plext.plext)*F^{-3} - \\
& 2/9*Hb(2,3,4,plext.plext)*F^{-3*\sin*\cos*\sqrt{3}} + 2/3*Hb(2,3,4,plext.plext)*F^{-3*\sin^2} + 1/12*Hb(2,3,5,qext.qext)*F^{-3} + \\
& 1/9*Hb(2,3,5,qext.qext)*F^{-3*\sin*\cos*\sqrt{3}} - 1/3*Hb(2,3,5,qext.qext)*F^{-3*\sin^2} - 7/9*Hb(2,4,8,plext.plext)*F^{-3*\sin*\cos*\sqrt{3}} + \\
& 1/3*Hb(2,4,8,plext.plext)*F^{-3*\sin^2} + 7/18*Hb(2,5,8,qext.qext)*F^{-3*\sin*\cos*\sqrt{3}} - 1/6*Hb(2,5,8,qext.qext)*F^{-3*\sin^2} - \\
& 1/16*Hb(3,1,4,qext.qext)*F^{-3} + 1/16*Hb(3,2,4,plext.plext)*F^{-3} - 1/16*Hb(3,2,5,qext.qext)*F^{-3} + \\
& 13/36*Hb(3,3,6,plext.plext)*F^{-3} - 37/54*Hb(3,3,6,plext.plext)*F^{-3*\sin*\cos*\sqrt{3}} + 8/9*Hb(3,3,6,plext.plext)*F^{-3*\sin^2} - \\
& 5/27*Hb(3,3,6,plext.plext)*F^{-3*\sin^3*\cos*\sqrt{3}} - 5/9*Hb(3,3,6,plext.plext)*F^{-3*\sin^4} - 13/36*Hb(3,3,6,qext.qext)*F^{-3} + \\
& 37/54*Hb(3,3,6,qext.qext)*F^{-3*\sin*\cos*\sqrt{3}} - 8/9*Hb(3,3,6,qext.qext)*F^{-3*\sin^2} + 5/27*Hb(3,3,6,qext.qext)*F^{-3*\sin^3*\cos*\sqrt{3}} + \\
& 5/9*Hb(3,3,6,qext.qext)*F^{-3*\sin^4} - 1/18*Hb(3,6,8,plext.plext)*F^{-3} + 1/27*Hb(3,6,8,plext.plext)*F^{-3*\sin*\cos*\sqrt{3}} + \\
& 2/9*Hb(3,6,8,plext.plext)*F^{-3*\sin^2} - 2/27*Hb(3,6,8,plext.plext)*F^{-3*\sin^3*\cos*\sqrt{3}} - 2/9*Hb(3,6,8,plext.plext)*F^{-3*\sin^4} + \\
& 1/18*Hb(3,6,8,qext.qext)*F^{-3} - 1/27*Hb(3,6,8,qext.qext)*F^{-3*\sin*\cos*\sqrt{3}} - 2/9*Hb(3,6,8,qext.qext)*F^{-3*\sin^2} + \\
& 2/27*Hb(3,6,8,qext.qext)*F^{-3*\sin^3*\cos*\sqrt{3}} + 2/9*Hb(3,6,8,qext.qext)*F^{-3*\sin^4} - 1/16*Hb(4,1,3,qext.qext)*F^{-3} + \\
& 1/24*Hb(4,1,3,qext.qext)*F^{-3*\sin*\cos*\sqrt{3}} + 1/8*Hb(4,1,3,qext.qext)*F^{-3*\sin^2} + 1/16*Hb(4,1,8,qext.qext)*F^{-3} - \\
& 1/24*Hb(4,1,8,qext.qext)*F^{-3*\sin*\cos*\sqrt{3}} - 1/8*Hb(4,1,8,qext.qext)*F^{-3*\sin^2} + 1/16*Hb(4,2,3,plext.plext)*F^{-3} - \\
& 1/24*Hb(4,2,3,plext.plext)*F^{-3*\sin*\cos*\sqrt{3}} - 1/8*Hb(4,2,3,plext.plext)*F^{-3*\sin^2} - 1/16*Hb(4,2,8,plext.plext)*F^{-3} + \\
& 1/24*Hb(4,2,8,plext.plext)*F^{-3*\sin*\cos*\sqrt{3}} + 1/8*Hb(4,2,8,plext.plext)*F^{-3*\sin^2} - 1/8*Hb(4,4,6,qext.qext)*F^{-3} + \\
& 1/4*Hb(4,5,7,qext.qext)*F^{-3} - 1/16*Hb(5,2,3,qext.qext)*F^{-3} + 1/24*Hb(5,2,3,qext.qext)*F^{-3*\sin*\cos*\sqrt{3}} + \\
& 1/8*Hb(5,2,3,qext.qext)*F^{-3*\sin^2} + 1/16*Hb(5,2,8,qext.qext)*F^{-3} - 1/24*Hb(5,2,8,qext.qext)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\cos x^*\sqrt{3} - 1/8^*\text{Hb}(5,2,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^2 - 1/8^*\text{Hb}(5,5,6,\text{qext}.\text{qext})^*F^{-3} \\
& + 1/32^*\text{Hb}(6,1,1,\text{qext}.\text{qext})^*F^{-3} + 1/32^*\text{Hb}(6,2,2,\text{qext}.\text{qext})^*F^{-3} - \\
& 1/16^*\text{Hb}(6,3,3,\text{plext}.\text{plext})^*F^{-3} + 1/8^*\text{Hb}(6,3,3,\text{plext}.\text{plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} \\
& - 3/16^*\text{Hb}(6,3,3,\text{plext}.\text{plext})^*F^{-3}*\sin x^2 + 1/24^*\text{Hb}(6,3,3,\text{plext}.\text{plext})^*F^{-3} \\
& *3^*\sin x^3*\cos x^*\sqrt{3} + 1/8^*\text{Hb}(6,3,3,\text{plext}.\text{plext})^*F^{-3}*\sin x^4 + 1/8^*\text{Hb}(6,3,3,\text{qext}.\text{qext})^*F^{-3} \\
& - 1/4^*\text{Hb}(6,3,3,\text{qext}.\text{qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/8^*\text{Hb}(6,3,3,\text{qext}.\text{qext})^*F^{-3} \\
& *3^*\sin x^2 - 1/12^*\text{Hb}(6,3,3,\text{qext}.\text{qext})^*F^{-3}*\sin x^3*\cos x^*\sqrt{3} - 1/4^*\text{Hb}(6,3,3,\text{qext}.\text{qext})^*F^{-3} \\
& *3^*\sin x^4 - 1/16^*\text{Hb}(6,3,8,\text{plext}.\text{plext})^*F^{-3} + 1/24^*\text{Hb}(6,3,8,\text{plext}.\text{plext})^*F^{-3} \\
& *3^*\sin x^*\cos x^*\sqrt{3} + 1/4^*\text{Hb}(6,3,8,\text{plext}.\text{plext})^*F^{-3}*\sin x^2 - 1/12^*\text{Hb}(6,3,8,\text{plext}.\text{plext})^*F^{-3} \\
& *3^*\sin x^3*\cos x^*\sqrt{3} - 1/4^*\text{Hb}(6,3,8,\text{plext}.\text{plext})^*F^{-3}*\sin x^4 + 1/8^*\text{Hb}(6,3,8,\text{qext}.\text{qext})^*F^{-3} \\
& - 1/12^*\text{Hb}(6,3,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/2^*\text{Hb}(6,3,8,\text{qext}.\text{qext})^*F^{-3} \\
& *3^*\sin x^2 + 1/6^*\text{Hb}(6,3,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^3*\cos x^*\sqrt{3} + 1/2^*\text{Hb}(6,3,8,\text{qext}.\text{qext})^*F^{-3} \\
& *3^*\sin x^4 + 1/32^*\text{Hb}(6,4,4,\text{qext}.\text{qext})^*F^{-3} + 1/32^*\text{Hb}(6,5,5,\text{qext}.\text{qext})^*F^{-3} \\
& + 2/3^*\text{Hb}(6,6,7,\text{plext}.\text{plext})^*F^{-3} + 5/6^*\text{Hb}(6,7,7,\text{qext}.\text{qext})^*F^{-3} - \\
& 11/36^*\text{Hb}(6,8,8,\text{plext}.\text{plext})^*F^{-3} - 41/108^*\text{Hb}(6,8,8,\text{plext}.\text{plext})^*F^{-3} \\
& *3^*\sin x^*\cos x^*\sqrt{3} - 13/144^*\text{Hb}(6,8,8,\text{plext}.\text{plext})^*F^{-3}*\sin x^2 + 17/216^*\text{Hb}(6,8,8,\text{plext}.\text{plext})^*F^{-3} \\
& *3^*\sin x^3*\cos x^*\sqrt{3} + 17/72^*\text{Hb}(6,8,8,\text{plext}.\text{plext})^*F^{-3}*\sin x^4 + 31/72^*\text{Hb}(6,8,8,\text{qext}.\text{qext})^*F^{-3} \\
& + 59/108^*\text{Hb}(6,8,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 11/72^*\text{Hb}(6,8,8,\text{qext}.\text{qext})^*F^{-3} \\
& *3^*\sin x^2 - 13/108^*\text{Hb}(6,8,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^3*\cos x^*\sqrt{3} - 13/36^*\text{Hb}(6,8,8,\text{qext}.\text{qext})^*F^{-3} \\
& *3^*\sin x^4 - 1/16^*\text{Hb}(7,1,2,\text{qext}.\text{qext})^*F^{-3} - 1/16^*\text{Hb}(7,4,5,\text{qext}.\text{qext})^*F^{-3} \\
& - 1/4^*\text{Hb}(7,6,6,\text{plext}.\text{plext})^*F^{-3} - 1/16^*\text{Hb}(8,1,4,\text{qext}.\text{qext})^*F^{-3} \\
& + 1/16^*\text{Hb}(8,2,4,\text{plext}.\text{plext})^*F^{-3} - 1/16^*\text{Hb}(8,2,5,\text{qext}.\text{qext})^*F^{-3} - \\
& 3/4^*\text{H21b}(1,2,6,\text{plext}.\text{plext})^*F^{-3} + 3/8^*\text{H21b}(1,2,7,\text{qext}.\text{qext})^*F^{-3} \\
& + 9/32^*\text{H21b}(1,3,4,\text{qext}.\text{qext})^*F^{-3} - 5/16^*\text{H21b}(1,3,4,\text{qext}.\text{qext})^*F^{-3} \\
& *3^*\sin x^*\cos x^*\sqrt{3} - 3/16^*\text{H21b}(1,3,4,\text{qext}.\text{qext})^*F^{-3}*\sin x^2 + 3/32^*\text{H21b}(1,4,8,\text{qext}.\text{qext})^*F^{-3} \\
& + 5/16^*\text{H21b}(1,4,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/16^*\text{H21b}(1,4,8,\text{qext}.\text{qext})^*F^{-3} \\
& *3^*\sin x^2 + 3/8^*\text{H21b}(2,1,7,\text{qext}.\text{qext})^*F^{-3} - 9/16^*\text{H21b}(2,3,4,\text{plext}.\text{plext})^*F^{-3} \\
& + 5/8^*\text{H21b}(2,3,4,\text{plext}.\text{plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/8^*\text{H21b}(2,3,4,\text{plext}.\text{plext})^*F^{-3} \\
& *3^*\sin x^2 + 9/32^*\text{H21b}(2,3,5,\text{qext}.\text{qext})^*F^{-3} - 5/16^*\text{H21b}(2,3,5,\text{qext}.\text{qext})^*F^{-3} \\
& *3^*\sin x^*\cos x^*\sqrt{3} - 3/16^*\text{H21b}(2,3,5,\text{qext}.\text{qext})^*F^{-3}*\sin x^2 - 3/16^*\text{H21b}(2,4,8,\text{plext}.\text{plext})^*F^{-3} \\
& - 5/8^*\text{H21b}(2,4,8,\text{plext}.\text{plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/8^*\text{H21b}(2,4,8,\text{plext}.\text{plext})^*F^{-3} \\
& *3^*\sin x^2 + 3/32^*\text{H21b}(2,5,8,\text{qext}.\text{qext})^*F^{-3} + 5/16^*\text{H21b}(2,5,8,\text{qext}.\text{qext})^*F^{-3} \\
& *3^*\sin x^*\cos x^*\sqrt{3} + 3/16^*\text{H21b}(2,5,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^2 + 9/32^*\text{H21b}(3,1,4,\text{qext}.\text{qext})^*F^{-3} \\
& + 7/16^*\text{H21b}(3,1,4,\text{qext}.\text{qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/16^*\text{H21b}(3,1,4,\text{qext}.\text{qext})^*F^{-3} \\
& *3^*\sin x^2 - 9/16^*\text{H21b}(3,2,4,\text{plext}.\text{plext})^*F^{-3} - 7/8^*\text{H21b}(3,2,4,\text{plext}.\text{plext})^*F^{-3} \\
& *3^*\sin x^*\cos x^*\sqrt{3} + 3/8^*\text{H21b}(3,2,4,\text{plext}.\text{plext})^*F^{-3}*\sin x^2 + 9/32^*\text{H21b}(3,2,5,\text{qext}.\text{qext})^*F^{-3} \\
& + 7/16^*\text{H21b}(3,2,5,\text{qext}.\text{qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/16^*\text{H21b}(3,2,5,\text{qext}.\text{qext})^*F^{-3} \\
& *3^*\sin x^2 - 1/8^*\text{H21b}(4,1,3,\text{qext}.\text{qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/8^*\text{H21b}(4,1,3,\text{qext}.\text{qext})^*F^{-3} \\
& *3^*\sin x^2 + 3/8^*\text{H21b}(4,1,8,\text{qext}.\text{qext})^*F^{-3} + 1/8^*\text{H21b}(4,1,8,\text{qext}.\text{qext})^*F^{-3} \\
& *3^*\sin x^*\cos x^*\sqrt{3} - 3/8^*\text{H21b}(4,1,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^2 + 1/4^*\text{H21b}(4,2,3,\text{plext}.\text{plext})^*F^{-3} \\
& *3^*\sin x^*\cos x^*\sqrt{3} - 3/4^*\text{H21b}(4,2,3,\text{plext}.\text{plext})^*F^{-3}*\sin x^2 - 3/4^*\text{H21b}(4,2,8,\text{plext}.\text{plext})^*F^{-3} \\
& - 1/4^*\text{H21b}(4,2,8,\text{plext}.\text{plext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/4^*\text{H21b}(4,2,8,\text{plext}.\text{plext})^*F^{-3} \\
& *3^*\sin x^2 + 3/8^*\text{H21b}(4,5,7,\text{qext}.\text{qext})^*F^{-3} - 1/8^*\text{H21b}(5,2,3,\text{qext}.\text{qext})^*F^{-3} \\
& *3^*\sin x^*\cos x^*\sqrt{3} + 3/8^*\text{H21b}(5,2,3,\text{qext}.\text{qext})^*F^{-3}*\sin x^2 + 3/8^*\text{H21b}(5,2,8,\text{qext}.\text{qext})^*F^{-3} \\
& + 1/8^*\text{H21b}(5,2,8,\text{qext}.\text{qext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 3/8^*\text{H21b}(5,2,8,\text{qext}.\text{qext})^*F^{-3} \\
& *3^*\sin x^2 - 3/4^*\text{H21b}(5,4,6,\text{plext}.\text{plext})^*F^{-3} + 3/8^*\text{H21b}(5,4,7,\text{qext}.\text{qext})^*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3 + 3/32*H21b(6,1,1,qext.qext)*F^{-3} + 3/32*H21b(6,2,2,qext.qext)*F^{-3} \\
& - 3/8*H21b(6,3,3,plext.plext)*F^{-3} + 3/4*H21b(6,3,3,plext.plext)*F^{-3} \\
& 3*\sin x*\cos x*\sqrt{3} - 9/8*H21b(6,3,3,plext.plext)*F^{-3}*\sin x^2 + 1/4*H21b(6,3,3,plext.plext)*F^{-3} \\
& 3*\sin x^3*\cos x*\sqrt{3} + 3/4*H21b(6,3,3,plext.plext)*F^{-3}*\sin x^4 + 3/8*H21b(6,3,3,qext.qext)*F^{-3} \\
& 3 - 3/4*H21b(6,3,3,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} + 9/8*H21b(6,3,3,qext.qext)*F^{-3} \\
& 3*\sin x^2 - 1/4*H21b(6,3,3,qext.qext)*F^{-3}*\sin x^3*\cos x*\sqrt{3} - 3/4*H21b(6,3,3,qext.qext)*F^{-3} \\
& 3*\sin x^4 - 3/8*H21b(6,3,8,plext.plext)*F^{-3} + 1/4*H21b(6,3,8,plext.plext)*F^{-3} \\
& 3*\sin x*\cos x*\sqrt{3} + 3/2*H21b(6,3,8,plext.plext)*F^{-3}*\sin x^2 - 1/2*H21b(6,3,8,plext.plext)*F^{-3} \\
& 3*\sin x^3*\cos x*\sqrt{3} - 3/2*H21b(6,3,8,plext.plext)*F^{-3}*\sin x^4 + 3/8*H21b(6,3,8,qext.qext)*F^{-3} \\
& 3 - 1/4*H21b(6,3,8,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 3/2*H21b(6,3,8,qext.qext)*F^{-3} \\
& 3*\sin x^2 + 1/2*H21b(6,3,8,qext.qext)*F^{-3}*\sin x^3*\cos x*\sqrt{3} + 3/2*H21b(6,3,8,qext.qext)*F^{-3} \\
& 3*\sin x^4 + 3/32*H21b(6,4,4,qext.qext)*F^{-3} + 3/32*H21b(6,5,5,qext.qext)*F^{-3} \\
& 3 + 3/2*H21b(6,7,7,qext.qext)*F^{-3} - 3/4*H21b(6,8,8,plext.plext)*F^{-3} - \\
& H21b(6,8,8,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 3/8*H21b(6,8,8,plext.plext)*F^{-3} \\
& 3*\sin x^2 + 1/4*H21b(6,8,8,plext.plext)*F^{-3}*\sin x^3*\cos x*\sqrt{3} + 3/4*H21b(6,8,8,plext.plext)*F^{-3} \\
& 3*\sin x^4 + 3/4*H21b(6,8,8,qext.qext)*F^{-3} + H21b(6,8,8,qext.qext)*F^{-3} \\
& 3*\sin x*\cos x*\sqrt{3} + 3/8*H21b(6,8,8,qext.qext)*F^{-3}*\sin x^2 - 1/4*H21b(6,8,8,qext.qext)*F^{-3} \\
& 3*\sin x^3*\cos x*\sqrt{3} - 3/4*H21b(6,8,8,qext.qext)*F^{-3}*\sin x^4 - 3/16*H21b(7,1,2,qext.qext)*F^{-3} \\
& 3 - 3/16*H21b(7,4,5,qext.qext)*F^{-3} - 3/2*H21b(7,6,6,plext.plext)*F^{-3} \\
& 3 + 3/32*H21b(8,1,4,qext.qext)*F^{-3} - 7/16*H21b(8,1,4,qext.qext)*F^{-3} \\
& 3*\sin x*\cos x*\sqrt{3} + 3/16*H21b(8,1,4,qext.qext)*F^{-3}*\sin x^2 - 3/16*H21b(8,2,4,plext.plext)*F^{-3} \\
& 3 + 7/8*H21b(8,2,4,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 3/8*H21b(8,2,4,plext.plext)*F^{-3} \\
& 3*\sin x^2 + 3/32*H21b(8,2,5,qext.qext)*F^{-3} - 7/16*H21b(8,2,5,qext.qext)*F^{-3} \\
& 3*\sin x*\cos x*\sqrt{3} + 3/16*H21b(8,2,5,qext.qext)*F^{-3}*\sin x^2 + 1/3*HH1b(1,1,6,qext.qext)*F^{-3} \\
& 3 - 1/3*HH1b(1,2,6,plext.plext)*F^{-3} - 1/2*HH1b(1,2,7,qext.qext)*F^{-3} \\
& 3 - 1/4*HH1b(1,3,4,qext.qext)*F^{-3} + 1/6*HH1b(1,3,4,qext.qext)*F^{-3} \\
& 3*\sin x*\cos x*\sqrt{3} + 1/2*HH1b(1,3,4,qext.qext)*F^{-3}*\sin x^2 - 2/3*HH1b(1,4,8,qext.qext)*F^{-3} \\
& 3*\sin x*\cos x*\sqrt{3} - 1/2*HH1b(2,1,7,qext.qext)*F^{-3} + 1/3*HH1b(2,2,6,qext.qext)*F^{-3} \\
& 3 + 1/2*HH1b(2,3,4,plext.plext)*F^{-3} - 1/3*HH1b(2,3,4,plext.plext)*F^{-3} \\
& 3*\sin x*\cos x*\sqrt{3} - HH1b(2,3,4,plext.plext)*F^{-3}*\sin x^2 - 1/4*HH1b(2,3,5,qext.qext)*F^{-3} \\
& 3 + 1/6*HH1b(2,3,5,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/2*HH1b(2,3,5,qext.qext)*F^{-3} \\
& 3*\sin x^2 + 4/3*HH1b(2,4,8,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 2/3*HH1b(2,5,8,qext.qext)*F^{-3} \\
& 3*\sin x*\cos x*\sqrt{3} - 1/4*HH1b(3,1,4,qext.qext)*F^{-3} - 1/2*HH1b(3,1,4,qext.qext)*F^{-3} \\
& 3*\sin x*\cos x*\sqrt{3} + 1/2*HH1b(3,1,4,qext.qext)*F^{-3}*\sin x^2 + 1/2*HH1b(3,2,4,plext.plext)*F^{-3} \\
& 3 + HH1b(3,2,4,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} - HH1b(3,2,4,plext.plext)*F^{-3} \\
& 3*\sin x^2 - 1/4*HH1b(3,2,5,qext.qext)*F^{-3} - 1/2*HH1b(3,2,5,qext.qext)*F^{-3} \\
& 3*\sin x*\cos x*\sqrt{3} + 1/2*HH1b(3,2,5,qext.qext)*F^{-3}*\sin x^2 - 11/12*HH1b(3,3,6,plext.plext)*F^{-3} \\
& 3 + 31/18*HH1b(3,3,6,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 13/6*HH1b(3,3,6,plext.plext)*F^{-3} \\
& 3*\sin x^2 + 4/9*HH1b(3,3,6,plext.plext)*F^{-3}*\sin x^3*\cos x*\sqrt{3} + 4/3*HH1b(3,3,6,plext.plext)*F^{-3} \\
& 3*\sin x^4 + 11/12*HH1b(3,3,6,qext.qext)*F^{-3} - 31/18*HH1b(3,3,6,qext.qext)*F^{-3} \\
& 3*\sin x*\cos x*\sqrt{3} + 13/6*HH1b(3,3,6,qext.qext)*F^{-3}*\sin x^2 - 4/9*HH1b(3,3,6,qext.qext)*F^{-3} \\
& 3*\sin x^3*\cos x*\sqrt{3} - 4/3*HH1b(3,3,6,qext.qext)*F^{-3}*\sin x^4 - 1/4*HH1b(4,1,8,qext.qext)*F^{-3} \\
& 3 - 1/2*HH1b(4,1,8,qext.qext)*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/2*HH1b(4,1,8,qext.qext)*F^{-3} \\
& 3*\sin x^2 + 1/2*HH1b(4,2,8,plext.plext)*F^{-3} + HH1b(4,2,8,plext.plext)*F^{-3} \\
& 3*\sin x*\cos x*\sqrt{3} - HH1b(4,2,8,plext.plext)*F^{-3}*\sin x^2 + 1/3*HH1b(4,4,6,qext.qext)*F^{-3} \\
& 3 - 1/2*HH1b(4,5,7,qext.qext)*F^{-3} - 1/4*HH1b(5,2,8,qext.qext)*F^{-3} -
\end{aligned}$$

$$\begin{aligned}
& 1/2*HH1b(5,2,8,qext.qext)*F^{-3}\sin x*\cos x*\sqrt{3} + 1/2*HH1b(5,2,8,qext.qext)*F^{-3}\sin x^2 + 1/3*HH1b(5,4,6,plext.plext)*F^{-3} - 1/2*HH1b(5,4,7,qext.qext)*F^{-3} + 1/3*HH1b(5,5,6,qext.qext)*F^{-3} + 1/3*HH1b(6,3,8,plext.plext)*F^{-3} - 2/9*HH1b(6,3,8,plext.plext)*F^{-3}\sin x*\cos x*\sqrt{3} - 4/3*HH1b(6,3,8,plext.plext)*F^{-3}\sin x^2 + 4/9*HH1b(6,3,8,plext.plext)*F^{-3}\sin x^3*\cos x*\sqrt{3} + 4/3*HH1b(6,3,8,plext.plext)*F^{-3}\sin x^4 - 1/3*HH1b(6,3,8,qext.qext)*F^{-3} + 2/9*HH1b(6,3,8,qext.qext)*F^{-3}\sin x*\cos x*\sqrt{3} + 4/3*HH1b(6,3,8,qext.qext)*F^{-3}\sin x^2 - 4/9*HH1b(6,3,8,qext.qext)*F^{-3}\sin x^3*\cos x*\sqrt{3} - 4/3*HH1b(6,3,8,qext.qext)*F^{-3}\sin x^4 - 4/3*HH1b(6,6,7,plext.plext)*F^{-3} - 5/3*HH1b(6,7,7,qext.qext)*F^{-3} + 7/8*HH1b(6,8,8,plext.plext)*F^{-3} + 13/12*HH1b(6,8,8,plext.plext)*F^{-3}\sin x*\cos x*\sqrt{3} + 1/4*HH1b(6,8,8,plext.plext)*F^{-3}\sin x^2 - 2/9*HH1b(6,8,8,plext.plext)*F^{-3}\sin x^3*\cos x*\sqrt{3} - 2/3*HH1b(6,8,8,plext.plext)*F^{-3}\sin x^4 - 7/8*HH1b(6,8,8,qext.qext)*F^{-3} - 13/12*HH1b(6,8,8,qext.qext)*F^{-3}\sin x*\cos x*\sqrt{3} - 1/4*HH1b(6,8,8,qext.qext)*F^{-3}\sin x^2 + 2/9*HH1b(6,8,8,qext.qext)*F^{-3}\sin x^3*\cos x*\sqrt{3} + 2/3*HH1b(6,8,8,qext.qext)*F^{-3}\sin x^4) \\
& + \text{mud*mkp2} * (- 9/4096*F^{-3}\pi^{-4} - 71/73728*F^{-3}\pi^{-2} + 2*F^{-3}\pi^{-2}*L8r + 13/4*F^{-3}\pi^{-2}*L6r - F^{-3}\pi^{-2}*L5r - 13/8*F^{-3}\pi^{-2}*L4r + 13/108*F^{-3}\pi^{-2}*L3r + 35/72*F^{-3}\pi^{-2}*L2r + 1/4*F^{-3}\pi^{-2}*L1r + 16*F^{-3}*L5r^2 + 48*F^{-3}*L4r*L5r + 32*F^{-3}*L4r^2 - 16*F^{-3}*CC17 - 32*F^{-3}*CC16 - 24*F^{-3}*CC15 - 16*F^{-3}*CC14 - 1/1536*\ln(3)*F^{-3}\pi^{-4} + 1/12*\ln(3)*F^{-3}\pi^{-2}*L8r - 1/4*\ln(3)*F^{-3}\pi^{-2}*L7r + 1/4*\ln(3)*F^{-3}\pi^{-2}*L6r - 13/144*\ln(3)*F^{-3}\pi^{-2}*L5r - 3/16*\ln(3)*F^{-3}\pi^{-2}*L4r - 1/24*\ln(3)*F^{-3}\pi^{-2}*L3r + 61/36864*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} - 7/9*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}*L8r - 5/6*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}*L7r - 2/3*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}*L6r + 109/432*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}*L5r + 5/18*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}*L4r + 17/72*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}*L3r + 1/9*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}*L2r + 4/9*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}*L1r - 41/18432*\ln(3)*F^{-3}\sin x^2*\pi^{-4} + 17/9*\ln(3)*F^{-3}\sin x^2*\pi^{-2}*L8r + 11/3*\ln(3)*F^{-3}\sin x^2*\pi^{-2}*L7r + \ln(3)*F^{-3}\sin x^2*\pi^{-2}*L6r - 23/72*\ln(3)*F^{-3}\sin x^2*\pi^{-2}*L5r - 11/36*\ln(3)*F^{-3}\sin x^2*\pi^{-2}*L4r - 7/18*\ln(3)*F^{-3}\sin x^2*\pi^{-2}*L3r - 2/9*\ln(3)*F^{-3}\sin x^2*\pi^{-2}*L2r - 8/9*\ln(3)*F^{-3}\sin x^2*\pi^{-2}*L1r + 8/9*\ln(3)*F^{-3}\sin x^3*\cos x*\sqrt{3}\pi^{-2}*L8r + 8/3*\ln(3)*F^{-3}\sin x^3*\cos x*\sqrt{3}\pi^{-2}*L7r - 8/9*\ln(3)*F^{-3}\sin x^4*\pi^{-2}*L8r - 8/3*\ln(3)*F^{-3}\sin x^4*\pi^{-2}*L7r - 13/24576*\ln(3)^2*F^{-3}\pi^{-4} + 145/110592*\ln(3)^2*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} - 65/55296*\ln(3)^2*F^{-3}\sin x^2*\pi^{-4} + 19/27648*\ln(3)^2*F^{-3}\sin x^3*\cos x*\sqrt{3}\pi^{-4} - 61/27648*\ln(3)^2*F^{-3}\sin x^4*\pi^{-4} - 1/864*\ln(3)^2*F^{-3}\sin x^5*\cos x*\sqrt{3}\pi^{-4} + 1/864*\ln(3)^2*F^{-3}\sin x^6*\pi^{-4} - 1/768*\ln(3)*\ln(4)*F^{-3}\pi^{-4} + 53/36864*\ln(3)*\ln(4)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} + 5/2048*\ln(3)*\ln(4)*F^{-3}\sin x^2*\pi^{-4} - 5/3456*\ln(3)*\ln(4)*F^{-3}\sin x^3*\cos x*\sqrt{3}\pi^{-4} - 1/1152*\ln(3)*\ln(4)*F^{-3}\sin x^4*\pi^{-4} + 97/36864*\ln(3)*\ln(6)*F^{-3}\pi^{-4} - 263/55296*\ln(3)*\ln(6)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} + 5/9216*\ln(3)*\ln(6)*F^{-3}\sin x^2*\pi^{-4} - 1/3456*\ln(3)*\ln(6)*F^{-3}\sin x^3*\cos x*\sqrt{3}\pi^{-4} + 1/384*\ln(3)*\ln(6)*F^{-3}\sin x^4*\pi^{-4} + 1/4096*\ln(3)*\ln(8)*F^{-3}\pi^{-4} + 17/27648*\ln(3)*\ln(8)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} - 5/1536*\ln(3)*\ln(8)*F^{-3}\sin x^2*\pi^{-4} - 35/13824*\ln(3)*\ln(8)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} + 77/13824*\ln(3)*\ln(8)*F^{-3}*\sin x^4*\pi^{-4} + \\
& 1/432*\ln(3)*\ln(8)*F^{-3}*\sin x^5*\cos x*\sqrt{3}*\pi^{-4} - 1/432*\ln(3)*\ln(8)*F^{-3}*\sin x^6*\pi^{-4} + 1/12288*\ln(4)*F^{-3}*\pi^{-4} + 1/4*\ln(4)*F^{-3}*\pi^{-2}*L6r + \\
& 1/16*\ln(4)*F^{-3}*\pi^{-2}*L5r - 3/16*\ln(4)*F^{-3}*\pi^{-2}*L4r - 1/3072*\ln(4)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 1/1536*\ln(4)*F^{-3}*\sin x^2*\pi^{-4} + 11/9216*\ln(4)*\ln(8)*F^{-3}*\pi^{-4} - 53/36864*\ln(4)*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 5/2048*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\pi^{-4} + 5/3456*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} + 1/1152*\ln(4)*\ln(8)*F^{-3}*\sin x^4*\pi^{-4} + 1/6144*\ln(6)*F^{-3}*\pi^{-4} + \ln(6)*F^{-3}*\pi^{-2}*L8r + 3/2*\ln(6)*F^{-3}*\pi^{-2}*L6r - 1/4*\ln(6)*F^{-3}*\pi^{-2}*L5r - 1/8*\ln(6)*F^{-3}*\pi^{-2}*L4r - 5/4*\ln(6)*F^{-3}*\pi^{-2}*L3r - 7/4*\ln(6)*F^{-3}*\pi^{-2}*L2r - 5/2*\ln(6)*F^{-3}*\pi^{-2}*L1r + 1/3072*\ln(6)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 1/1536*\ln(6)*F^{-3}*\sin x^2*\pi^{-4} - 1/1024*\ln(6)^2*F^{-3}*\pi^{-4} + 191/36864*\ln(6)*\ln(8)*F^{-3}*\pi^{-4} + 263/55296*\ln(6)*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 5/9216*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\pi^{-4} + 1/3456*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} - 1/384*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\pi^{-4} - 53/18432*\ln(8)*F^{-3}*\pi^{-4} + 11/12*\ln(8)*F^{-3}*\pi^{-2}*L8r + 1/4*\ln(8)*F^{-3}*\pi^{-2}*L7r + 5/4*\ln(8)*F^{-3}*\pi^{-2}*L6r - 59/144*\ln(8)*F^{-3}*\pi^{-2}*L5r - 71/144*\ln(8)*F^{-3}*\pi^{-2}*L4r - 31/72*\ln(8)*F^{-3}*\pi^{-2}*L3r - 2/9*\ln(8)*F^{-3}*\pi^{-2}*L2r - 8/9*\ln(8)*F^{-3}*\pi^{-2}*L1r - 61/36864*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 7/9*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L8r + 5/6*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L7r + 2/3*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L6r - 109/432*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L5r - 5/18*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L4r - 17/72*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L3r - 1/9*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L2r - 4/9*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L1r + 41/18432*\ln(8)*F^{-3}*\sin x^2*\pi^{-4} - 17/9*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L8r - 11/3*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L7r - \ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L6r + 23/72*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L5r + 11/36*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L4r + 7/18*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L3r + 2/9*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L2r + 8/9*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L1r - 8/9*\ln(8)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-2}*L8r - 8/3*\ln(8)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-2}*L7r + 8/9*\ln(8)*F^{-3}*\sin x^4*\pi^{-2}*L8r + 8/3*\ln(8)*F^{-3}*\sin x^4*\pi^{-2}*L7r - 65/24576*\ln(8)^2*F^{-3}*\pi^{-4} - 71/36864*\ln(8)^2*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 245/55296*\ln(8)^2*F^{-3}*\sin x^2*\pi^{-4} + 17/9216*\ln(8)^2*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} - 31/9216*\ln(8)^2*F^{-3}*\sin x^4*\pi^{-4} - 1/864*\ln(8)^2*F^{-3}*\sin x^5*\cos x*\sqrt{3}*\pi^{-4} + 1/864*\ln(8)^2*F^{-3}*\sin x^6*\pi^{-4} - 1/6*Hb(2,3,4,1,plext.plext)*F^{-3} - 5/9*Hb(2,3,4,1,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} + 2/3*Hb(2,3,4,1,plext.plext)*F^{-3}*\sin x^2 - 17/18*Hb(2,4,8,1,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/3*Hb(2,4,8,1,plext.plext)*F^{-3}*\sin x^2 + 1/16*Hb(3,2,4,1,plext.plext)*F^{-3} - 1/12*Hb(3,2,4,1,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} + 61/144*Hb(3,3,6,1,plext.plext)*F^{-3} - 119/108*Hb(3,3,6,1,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} + 61/54*Hb(3,3,6,1,plext.plext)*F^{-3}*\sin x^2 - 20/27*Hb(3,3,6,1,plext.plext)*F^{-3}*\sin x^4 - 1/24*Hb(3,6,8,1,plext.plext)*F^{-3} + 8/27*Hb(3,6,8,1,plext.plext)*F^{-3}*\sin x^2 - 8/27*Hb(3,6,8,1,plext.plext)*F^{-3}*\sin x^4 + 1/16*Hb(4,2,3,1,plext.plext)*F^{-3} - 1/24*Hb(4,2,3,1,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/4*Hb(4,2,3,1,plext.plext)*F^{-3}*\sin x^2 - 3/16*Hb(4,2,8,1,plext.plext)*F^{-3} + 1/24*Hb(4,2,8,1,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/4*Hb(4,2,8,1,plext.plext)*F^{-3}*\sin x^2 - 1/8*Hb(5,4,6,1,plext.plext)*F^{-3} - 9/64*Hb(6,3,3,1,plext.plext)*F^{-3} + 17/48*Hb(6,3,3,1,plext.plext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 11/24*Hb(6,3,3,1,plext.plext)*F^{-3}*\sin x^2 + 1/3*Hb(6,3,3,1,plext.plext)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^4 - 3/32^*\text{Hb}(6,3,8,1,\text{p1ext.p1ext})^*F^{-3} + 2/3^*\text{Hb}(6,3,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 - 2/3^*\text{Hb}(6,3,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^4 - 37/64^*\text{Hb}(6,8,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 - 289/432^*\text{Hb}(6,8,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x*\cos x*\sqrt{3} - 53/216^*\text{Hb}(6,8,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 + 13/27^*\text{Hb}(6,8,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^4 - 1/2^*\text{Hb}(7,6,6,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 + 1/16^*\text{Hb}(8,2,4,1,\text{p1ext.p1ext})^*F^{-3} + 1/12^*\text{Hb}(8,2,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} - 3/4^*\text{H21b}(1,2,6,1,\text{p1ext.p1ext})^*F^{-3} - 9/16^*\text{H21b}(2,3,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 + 7/16^*\text{H21b}(2,3,4,1,\text{p1ext.p1ext})^*F^{-3}*\sin x*\cos x*\sqrt{3} + 3/8^*\text{H21b}(2,3,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 - 3/16^*\text{H21b}(2,4,8,1,\text{p1ext.p1ext})^*F^{-3} - 7/16^*\text{H21b}(2,4,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} - 3/8^*\text{H21b}(2,4,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^2 - 9/16^*\text{H21b}(3,2,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 - 17/16^*\text{H21b}(3,2,4,1,\text{p1ext.p1ext})^*F^{-3}*\sin x*\cos x*\sqrt{3} + 3/8^*\text{H21b}(3,2,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 + 5/8^*\text{H21b}(4,2,3,1,\text{p1ext.p1ext})^*F^{-3}*\sin x*\cos x*\sqrt{3} - 3/4^*\text{H21b}(4,2,3,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 - 3/4^*\text{H21b}(4,2,8,1,\text{p1ext.p1ext})^*F^{-3} - 5/8^*\text{H21b}(4,2,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} + 3/4^*\text{H21b}(4,2,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^2 - 3/4^*\text{H21b}(5,4,6,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 - 27/64^*\text{H21b}(6,3,3,1,\text{p1ext.p1ext})^*F^{-3} + 17/16^*\text{H21b}(6,3,3,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} - 11/8^*\text{H21b}(6,3,3,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^2 + \text{H21b}(6,3,3,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^4 - 9/32^*\text{H21b}(6,3,8,1,\text{p1ext.p1ext})^*F^{-3} + 2^*\text{H21b}(6,3,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 - 2^*\text{H21b}(6,3,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^4 - 51/64^*\text{H21b}(6,8,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 - 17/16^*\text{H21b}(6,8,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x*\cos x*\sqrt{3} - 5/8^*\text{H21b}(6,8,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 + \text{H21b}(6,8,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^4 - 3/2^*\text{H21b}(7,6,6,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 - 3/16^*\text{H21b}(8,2,4,1,\text{p1ext.p1ext})^*F^{-3} + 17/16^*\text{H21b}(8,2,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} - 3/8^*\text{H21b}(8,2,4,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^2 + 1/2^*\text{HH1b}(2,3,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 + 1/6^*\text{HH1b}(2,3,4,1,\text{p1ext.p1ext})^*F^{-3}*\sin x*\cos x*\sqrt{3} - \text{HH1b}(2,3,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 + 4/3^*\text{HH1b}(2,4,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x*\cos x*\sqrt{3} + 1/2^*\text{HH1b}(3,2,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 + 3/2^*\text{HH1b}(3,2,4,1,\text{p1ext.p1ext})^*F^{-3}*\sin x*\cos x*\sqrt{3} - \text{HH1b}(3,2,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 - 5/4^*\text{HH1b}(3,3,6,1,\text{p1ext.p1ext})^*F^{-3} + 17/6^*\text{HH1b}(3,3,6,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} - 25/9^*\text{HH1b}(3,3,6,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^2 + 16/9^*\text{HH1b}(3,3,6,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^4 + 1/2^*\text{HH1b}(4,2,8,1,\text{p1ext.p1ext})^*F^{-3} + 3/2^*\text{HH1b}(4,2,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} - \text{HH1b}(4,2,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^2 + 1/4^*\text{HH1b}(6,3,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 - 16/9^*\text{HH1b}(6,3,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^2 + 16/9^*\text{HH1b}(6,3,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^4 + 9/8^*\text{HH1b}(6,8,8,1,\text{p1ext.p1ext})^*F^{-3} + 17/12^*\text{HH1b}(6,8,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3} + 7/18^*\text{HH1b}(6,8,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^2 - 8/9^*\text{HH1b}(6,8,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^4) \\
& + \text{mud}^*\text{mkp}2^2 * (- 5/18432/(\text{mass}(3))^*\ln(3)^2*F^{-3}*\pi^{-4} + 11/6912/(\text{mass}(3))^*\ln(3)^2*F^{-} \\
& 3^*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 3/1024/(\text{mass}(3))^*\ln(3)^2*F^{-3}*\sin x^2*\pi^{-4} + \\
& 1/4096/(\text{mass}(4))^*\ln(4)^2*F^{-3}*\pi^{-4} - 35/9216/(\text{mass}(6))^*\ln(6)^2*F^{-3}*\pi^{-4} \\
& - 47/18432/(\text{mass}(7))^*\ln(6)^2*F^{-3}*\pi^{-4} - 59/18432/(\text{mass}(8))^*\ln(8)^2*F^{-} \\
& 3^*\pi^{-4} - 11/6912/(\text{mass}(8))^*\ln(8)^2*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 3/1024/(\text{mass}(8))^*\ln(8)^2*F^{-} \\
& 3^*\sin x^2*\pi^{-4}) \\
& + \text{mud}^*\text{mpp}2 * (+ 5/16384^*F^{-3}*\pi^{-4} - 1/73728^*F^{-3}*\pi^{-2} + 5/4^*F^{-3}*\pi^{-} \\
& 2^*\text{L6r} - 5/8^*F^{-3}*\pi^{-2}*\text{L4r} - 1/108^*F^{-3}*\pi^{-2}*\text{L3r} - 1/36^*F^{-3}*\pi^{-2}*\text{L2r} \\
& + 16^*F^{-3}*\text{L4r}*\text{L5r} + 16^*F^{-3}*\text{L4r}^2 + 16^*F^{-3}*\text{CC16} - 8^*F^{-3}*\text{CC15} \\
& - 1/4096^*\ln(1)^*F^{-3}*\pi^{-4} + 1/4^*\ln(1)^*F^{-3}*\pi^{-2}*\text{L6r} + 1/16^*\ln(1)^*F^{-} \\
& 3^*\pi^{-2}*\text{L5r} - 3/16^*\ln(1)^*F^{-3}*\pi^{-2}*\text{L4r} + 1/8192^*\ln(1)^*\ln(3)^*F^{-3}*\pi^{-4} - \\
& 11/36864^*\ln(1)^*\ln(3)^*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 5/36864^*\ln(1)^*\ln(3)^*F^{-} \\
& 3^*\sin x^2*\pi^{-4} + 1/4608^*\ln(1)^*\ln(3)^*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} -
\end{aligned}$$

$$\begin{aligned}
& 1/4608*\ln(1)*\ln(3)*F^{-3*\sin x^4*\pi^{-4}} - 17/73728*\ln(1)*\ln(8)*F^{-3*\pi^{-4}} + \\
& 11/36864*\ln(1)*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} + 5/36864*\ln(1)*\ln(8)*F^{-3*\sin x^2*\pi^{-4}} \\
& - 1/4608*\ln(1)*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} + 1/4608*\ln(1)*\ln(8)*F^{-3*\sin x^4*\pi^{-4}} \\
& - 37/49152*\ln(3)*F^{-3*\pi^{-4}} + 1/6*\ln(3)*F^{-3*\pi^{-2}*L8r} + 1/4*\ln(3)*F^{-3*\pi^{-2}*L7r} + 1/4*\ln(3)*F^{-3*\pi^{-2}*L6r} \\
& - 11/576*\ln(3)*F^{-3*\pi^{-2}*L5r} - 3/16*\ln(3)*F^{-3*\pi^{-2}*L4r} - 1/48*\ln(3)*F^{-3*\pi^{-2}*L3r} \\
& - 5/73728*\ln(3)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} + 5/18*\ln(3)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L8r} \\
& + 5/6*\ln(3)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L7r} - 1/3*\ln(3)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L6r} \\
& + 13/864*\ln(3)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L5r} + 5/36*\ln(3)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L4r} \\
& + 1/18*\ln(3)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L3r} + 1/18*\ln(3)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L2r} \\
& + 2/9*\ln(3)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L1r} + 35/73728*\ln(3)*F^{-3*\sin x^2*\pi^{-4}} \\
& - 25/18*\ln(3)*F^{-3*\sin x^2*\pi^{-2}*L8r} - 11/3*\ln(3)*F^{-3*\sin x^2*\pi^{-2}*L7r} + 19/288*\ln(3)*F^{-3*\sin x^2*\pi^{-2}*L5r} \\
& - 1/9*\ln(3)*F^{-3*\sin x^2*\pi^{-2}*L4r} + 7/72*\ln(3)*F^{-3*\sin x^2*\pi^{-2}*L3r} + 1/18*\ln(3)*F^{-3*\sin x^2*\pi^{-2}*L2r} \\
& + 2/9*\ln(3)*F^{-3*\sin x^2*\pi^{-2}*L1r} - 8/9*\ln(3)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-2}*L8r} - 8/3*\ln(3)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-2}*L7r} \\
& + 8/9*\ln(3)*F^{-3*\sin x^4*\pi^{-2}*L8r} + 8/3*\ln(3)*F^{-3*\sin x^4*\pi^{-2}*L7r} - 7/24576*\ln(3)^2*F^{-3*\pi^{-4}} - 35/221184*\ln(3)^2*F^{-3*\sin x^2*\pi^{-4}} \\
& + 179/221184*\ln(3)^2*F^{-3*\sin x^2*\pi^{-4}} + 19/55296*\ln(3)^2*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} + 11/55296*\ln(3)^2*F^{-3*\sin x^4*\pi^{-4}} \\
& + 1/3456*\ln(3)^2*F^{-3*\sin x^5*\cos x*\sqrt{3}*\pi^{-4}} - 1/3456*\ln(3)^2*F^{-3*\sin x^6*\pi^{-4}} - 1/16384*\ln(3)*\ln(4)*F^{-3*\pi^{-4}} \\
& - 43/73728*\ln(3)*\ln(4)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} + 65/73728*\ln(3)*\ln(4)*F^{-3*\sin x^2*\pi^{-4}} + 11/13824*\ln(3)*\ln(4)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} \\
& - 1/1536*\ln(3)*\ln(4)*F^{-3*\sin x^4*\pi^{-4}} + 19/73728*\ln(3)*\ln(6)*F^{-3*\pi^{-4}} + 7/110592*\ln(3)*\ln(6)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} \\
& + 13/36864*\ln(3)*\ln(6)*F^{-3*\sin x^2*\pi^{-4}} + 5/6912*\ln(3)*\ln(6)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} - 1/1152*\ln(3)*\ln(6)*F^{-3*\sin x^4*\pi^{-4}} \\
& - 19/73728*\ln(3)*\ln(8)*F^{-3*\pi^{-4}} - 1/55296*\ln(3)*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} + 1/1024*\ln(3)*\ln(8)*F^{-3*\sin x^2*\pi^{-4}} \\
& + 13/27648*\ln(3)*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} - 43/27648*\ln(3)*\ln(8)*F^{-3*\sin x^4*\pi^{-4}} - 1/1728*\ln(3)*\ln(8)*F^{-3*\sin x^5*\cos x*\sqrt{3}*\pi^{-4}} \\
& + 1/1728*\ln(3)*\ln(8)*F^{-3*\sin x^6*\pi^{-4}} - 1/6144*\ln(4)*F^{-3*\pi^{-4}} + 1/4608*\ln(4)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} + 1/3072*\ln(4)*F^{-3*\sin x^2*\pi^{-4}} \\
& + 1/16384*\ln(4)*\ln(8)*F^{-3*\pi^{-4}} + 43/73728*\ln(4)*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} - 65/73728*\ln(4)*\ln(8)*F^{-3*\sin x^2*\pi^{-4}} \\
& - 11/13824*\ln(4)*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} + 1/1536*\ln(4)*\ln(8)*F^{-3*\sin x^4*\pi^{-4}} - 1/3072*\ln(6)*F^{-3*\pi^{-4}} \\
& + 1/2*\ln(6)*F^{-3*\pi^{-2}*L6r} - 3/8*\ln(6)*F^{-3*\pi^{-2}*L4r} - 1/4608*\ln(6)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} - 1/3072*\ln(6)*F^{-3*\sin x^2*\pi^{-4}} \\
& - 35/73728*\ln(6)*\ln(8)*F^{-3*\pi^{-4}} - 7/110592*\ln(6)*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} - 13/36864*\ln(6)*\ln(8)*F^{-3*\sin x^2*\pi^{-4}} \\
& - 5/6912*\ln(6)*\ln(8)*F^{-3*\sin x^3*\cos x*\sqrt{3}*\pi^{-4}} + 1/1152*\ln(6)*\ln(8)*F^{-3*\sin x^4*\pi^{-4}} - 41/147456*\ln(8)*F^{-3*\pi^{-4}} - 1/6*\ln(8)*F^{-3*\pi^{-2}*L8r} \\
& - 1/4*\ln(8)*F^{-3*\pi^{-2}*L7r} + 1/4*\ln(8)*F^{-3*\pi^{-2}*L6r} + 3/64*\ln(8)*F^{-3*\pi^{-2}*L5r} - 43/144*\ln(8)*F^{-3*\pi^{-2}*L4r} + 11/144*\ln(8)*F^{-3*\pi^{-2}*L3r} \\
& + 1/18*\ln(8)*F^{-3*\pi^{-2}*L2r} + 2/9*\ln(8)*F^{-3*\pi^{-2}*L1r} + 5/73728*\ln(8)*F^{-3*\sin x*\cos x*\sqrt{3}*\pi^{-4}} - 5/18*\ln(8)*F^{-3*\pi^{-2}*L8r}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L8r - 5/6^*\ln(8)^*F^{\wedge-3}^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L7r + \\
& 1/3^*\ln(8)^*F^{\wedge-3}^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L6r - 13/864^*\ln(8)^*F^{\wedge-3}^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L5r - \\
& 5/36^*\ln(8)^*F^{\wedge-3}^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L4r - 1/18^*\ln(8)^*F^{\wedge-3}^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L3r - \\
& 1/18^*\ln(8)^*F^{\wedge-3}^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L2r - 2/9^*\ln(8)^*F^{\wedge-3}^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L1r - 35/73728^*\ln(8)^*F^{\wedge-3}^*\sin x^{\wedge 2}^*\pi^{\wedge-4} + \\
& 25/18^*\ln(8)^*F^{\wedge-3}^*\sin x^{\wedge 2}^*\pi^{\wedge-2}^*L8r + 11/3^*\ln(8)^*F^{\wedge-3}^*\sin x^{\wedge 2}^*\pi^{\wedge-2}^*L7r - 19/288^*\ln(8)^*F^{\wedge-3}^*\sin x^{\wedge 2}^*\pi^{\wedge-2}^*L5r + \\
& 1/9^*\ln(8)^*F^{\wedge-3}^*\sin x^{\wedge 2}^*\pi^{\wedge-2}^*L4r - 7/72^*\ln(8)^*F^{\wedge-3}^*\sin x^{\wedge 2}^*\pi^{\wedge-2}^*L3r - 1/18^*\ln(8)^*F^{\wedge-3}^*\sin x^{\wedge 2}^*\pi^{\wedge-2}^*L2r - \\
& 2/9^*\ln(8)^*F^{\wedge-3}^*\sin x^{\wedge 2}^*\pi^{\wedge-2}^*L1r + 8/9^*\ln(8)^*F^{\wedge-3}^*\sin x^{\wedge 3}^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L8r + 8/3^*\ln(8)^*F^{\wedge-3}^*\sin x^{\wedge 3}^*\cos x^*\sqrt{3}^*\pi^{\wedge-2}^*L7r - \\
& 8/9^*\ln(8)^*F^{\wedge-3}^*\sin x^{\wedge 4}^*\pi^{\wedge-2}^*L8r - 8/3^*\ln(8)^*F^{\wedge-3}^*\sin x^{\wedge 4}^*\pi^{\wedge-2}^*L7r + 1/3072^*\ln(8)^{\wedge 2}^*F^{\wedge-3}^*\pi^{\wedge-4} + \\
& 13/73728^*\ln(8)^{\wedge 2}^*F^{\wedge-3}^*\sin x^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 395/221184^*\ln(8)^{\wedge 2}^*F^{\wedge-3}^*\sin x^{\wedge 2}^*\pi^{\wedge-4} - \\
& 5/6144^*\ln(8)^{\wedge 2}^*F^{\wedge-3}^*\sin x^{\wedge 3}^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} + 25/18432^*\ln(8)^{\wedge 2}^*F^{\wedge-3}^*\sin x^{\wedge 4}^*\pi^{\wedge-4} + \\
& 1/3456^*\ln(8)^{\wedge 2}^*F^{\wedge-3}^*\sin x^{\wedge 5}^*\cos x^*\sqrt{3}^*\pi^{\wedge-4} - 1/3456^*\ln(8)^{\wedge 2}^*F^{\wedge-3}^*\sin x^{\wedge 6}^*\pi^{\wedge-4} - \\
& 1/8^*\text{Hb}(1,2,6,1,\text{plext.plext})^*F^{\wedge-3} - 3/32^*\text{Hb}(2,3,4,1,\text{plext.plext})^*F^{\wedge-3} + 7/16^*\text{Hb}(2,3,4,1,\text{plext.plext})^*F^{\wedge-3} + \\
& 1/16^*\text{Hb}(2,3,4,1,\text{plext.plext})^*F^{\wedge-3} + 1/16^*\text{Hb}(2,4,8,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^*\cos x^*\sqrt{3} - \\
& 1/16^*\text{Hb}(2,4,8,1,\text{plext.plext})^*F^{\wedge-3} + 1/16^*\text{Hb}(2,4,8,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^*\cos x^*\sqrt{3} - \\
& 1/16^*\text{Hb}(3,2,4,1,\text{plext.plext})^*F^{\wedge-3} + 1/16^*\text{Hb}(3,2,4,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^{\wedge 2} - \\
& 5/144^*\text{Hb}(3,3,6,1,\text{plext.plext})^*F^{\wedge-3} + 31/108^*\text{Hb}(3,3,6,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^*\cos x^*\sqrt{3} - \\
& 5/27^*\text{Hb}(3,3,6,1,\text{plext.plext})^*F^{\wedge-3} + 5/27^*\text{Hb}(3,3,6,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^{\wedge 2} - 5/27^*\text{Hb}(3,3,6,1,\text{plext.plext})^*F^{\wedge-3} + \\
& 1/27^*\text{Hb}(3,6,8,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^{\wedge 4} - 1/72^*\text{Hb}(3,6,8,1,\text{plext.plext})^*F^{\wedge-3} + 1/27^*\text{Hb}(3,6,8,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^{\wedge 2} - 2/27^*\text{Hb}(3,6,8,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^{\wedge 3}^*\cos x^*\sqrt{3} + 2/27^*\text{Hb}(3,6,8,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^{\wedge 4} + 1/24^*\text{Hb}(4,2,3,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^*\cos x^*\sqrt{3} - 1/24^*\text{Hb}(4,2,8,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/64^*\text{Hb}(6,3,3,1,\text{plext.plext})^*F^{\wedge-3} - 5/48^*\text{Hb}(6,3,3,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/12^*\text{Hb}(6,3,3,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^{\wedge 2} + 1/12^*\text{Hb}(6,3,3,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^{\wedge 3}^*\cos x^*\sqrt{3} - 1/12^*\text{Hb}(6,3,3,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^{\wedge 4} - 1/32^*\text{Hb}(6,3,8,1,\text{plext.plext})^*F^{\wedge-3} + \\
& 1/12^*\text{Hb}(6,3,8,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^*\cos x^*\sqrt{3} - 1/6^*\text{Hb}(6,3,8,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^{\wedge 2} - 1/6^*\text{Hb}(6,3,8,1,\text{plext.plext})^*F^{\wedge-3} + 3^*\sin x^{\wedge 3}^*\cos x^*\sqrt{3} + 1/6^*\text{Hb}(6,3,8,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^{\wedge 4} + 13/576^*\text{Hb}(6,8,8,1,\text{plext.plext})^*F^{\wedge-3} + 25/432^*\text{Hb}(6,8,8,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 13/108^*\text{Hb}(6,8,8,1,\text{plext.plext})^*F^{\wedge-3} + 3^*\sin x^{\wedge 2} + 13/108^*\text{Hb}(6,8,8,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^{\wedge 3}^*\cos x^*\sqrt{3} - 13/108^*\text{Hb}(6,8,8,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^{\wedge 4} - 1/32^*\text{Hb}(8,2,4,1,\text{plext.plext})^*F^{\wedge-3} + \\
& 1/16^*\text{Hb}(8,2,4,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^*\cos x^*\sqrt{3} - 1/16^*\text{Hb}(8,2,4,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^{\wedge 2} + 3/16^*\text{H21b}(2,3,4,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^*\cos x^*\sqrt{3} - 3/16^*\text{H21b}(2,4,8,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 3/16^*\text{H21b}(3,2,4,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^*\cos x^*\sqrt{3} - 3/8^*\text{H21b}(4,2,3,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 3/8^*\text{H21b}(4,2,8,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^*\cos x^*\sqrt{3} + 3/64^*\text{H21b}(6,3,3,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 5/16^*\text{H21b}(6,3,3,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^*\cos x^*\sqrt{3} + 1/4^*\text{H21b}(6,3,3,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^{\wedge 2} + 1/4^*\text{H21b}(6,3,3,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^{\wedge 3}^*\cos x^*\sqrt{3} - 1/4^*\text{H21b}(6,3,3,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^{\wedge 4} - 3/32^*\text{H21b}(6,3,8,1,\text{plext.plext})^*F^{\wedge-3} + \\
& 1/4^*\text{H21b}(6,3,8,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^*\cos x^*\sqrt{3} - 1/2^*\text{H21b}(6,3,8,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^{\wedge 2} - 1/2^*\text{H21b}(6,3,8,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^{\wedge 3}^*\cos x^*\sqrt{3} + 1/2^*\text{H21b}(6,3,8,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^{\wedge 4} + 3/64^*\text{H21b}(6,8,8,1,\text{plext.plext})^*F^{\wedge-3} + 1/16^*\text{H21b}(6,8,8,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/4^*\text{H21b}(6,8,8,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^{\wedge 2} + 1/4^*\text{H21b}(6,8,8,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^{\wedge 3}^*\cos x^*\sqrt{3} - 1/4^*\text{H21b}(6,8,8,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^{\wedge 4} - 3/16^*\text{H21b}(8,2,4,1,\text{plext.plext})^*F^{\wedge-3} - \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 1/2^*\text{H21b}(2,3,4,1,\text{plext.plext})^*F^{\wedge-3} - 3^*\sin x^*\cos x^*\sqrt{3} -
\end{aligned}$$

$$\begin{aligned}
& 1/2*HH1b(3,2,4,1,plext.plext)*F^{-3}\sin x*\cos x*\sqrt{3} + 1/12*HH1b(3,3,6,1,plext.plext)*F^{-3} \\
& - 13/18*HH1b(3,3,6,1,plext.plext)*F^{-3}\sin x*\cos x*\sqrt{3} + 4/9*HH1b(3,3,6,1,plext.plext)*F^{-3} \\
& \sin x^2 + 4/9*HH1b(3,3,6,1,plext.plext)*F^{-3}\sin x^3*\cos x*\sqrt{3} - 4/9*HH1b(3,3,6,1,plext.plext)*F^{-3} \\
& \sin x^4 - 1/2*HH1b(4,2,8,1,plext.plext)*F^{-3}\sin x*\cos x*\sqrt{3} + 1/12*HH1b(6,3,8,1,plext.plext)*F^{-3} \\
& - 2/9*HH1b(6,3,8,1,plext.plext)*F^{-3}\sin x*\cos x*\sqrt{3} + 4/9*HH1b(6,3,8,1,plext.plext)*F^{-3}\sin x^2 \\
& + 4/9*HH1b(6,3,8,1,plext.plext)*F^{-3}\sin x^3*\cos x*\sqrt{3} - 4/9*HH1b(6,3,8,1,plext.plext)*F^{-3}\sin x^4 - 1/24*HH1b(6,8,8,1,plext.plext)*F^{-3} \\
& - 5/36*HH1b(6,8,8,1,plext.plext)*F^{-3}\sin x*\cos x*\sqrt{3} - 2/9*HH1b(6,8,8,1,plext.plext)*F^{-3}\sin x^2 \\
& - 2/9*HH1b(6,8,8,1,plext.plext)*F^{-3}\sin x^3*\cos x*\sqrt{3} + 2/9*HH1b(6,8,8,1,plext.plext)*F^{-3}\sin x^4) \\
& + \text{mud}*\text{mpp}^2*\text{mkp}^2 * (- 7/36864/(\text{mass}(3))^*\ln(3)^2F^{-3}\pi^{-4} - 5/55296/(\text{mass}(3))^*\ln(3)^2F^{-3} \\
& \sin x*\cos x*\sqrt{3}\pi^{-4} + 1/1024/(\text{mass}(3))^*\ln(3)^2F^{-3}\sin x^2\pi^{-4} + 71/184320/(\text{mass}(6))^*\ln(6)^2F^{-3}\pi^{-4} \\
& - 161/184320/(\text{mass}(7))^*\ln(6)^2F^{-3}\pi^{-4} + 29/36864/(\text{mass}(8))^*\ln(8)^2F^{-3}\pi^{-4} + 5/55296/(\text{mass}(8))^*\ln(8)^2F^{-3} \\
& \sin x*\cos x*\sqrt{3}\pi^{-4} - 1/1024/(\text{mass}(8))^*\ln(8)^2F^{-3}\sin x^2\pi^{-4}) \\
& + \text{mud}*\text{mpp}^2^2 * (+ 1/6144/(\text{mass}(1))^*\ln(1)^2F^{-3}\pi^{-4} + 1/12288/(\text{mass}(2))^*\ln(1)^2F^{-3} \\
& \pi^{-4} - 11/73728/(\text{mass}(3))^*\ln(3)^2F^{-3}\pi^{-4} + 25/55296/(\text{mass}(3))^*\ln(3)^2F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} \\
& - 11/73728/(\text{mass}(8))^*\ln(8)^2F^{-3}\pi^{-4} - 25/55296/(\text{mass}(8))^*\ln(8)^2F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4}) \\
& + \text{mud}^2 * (+ 41/32768F^{-3}\pi^{-4} + 35/73728F^{-3}\pi^{-2} - F^{-3}\pi^{-2} \\
& L_8r - F^{-3}\pi^{-2}L_6r + 1/2F^{-3}\pi^{-2}L_5r + 1/2F^{-3}\pi^{-2}L_4r - 7/108F^{-3}\pi^{-2}L_3r - 37/144F^{-3}\pi^{-2}L_2r \\
& - 1/8F^{-3}\pi^{-2}L_1r - 8F^{-3}L_5r^2 - 16F^{-3}L_4r*L_5r - 8F^{-3}L_4r^2 + 8F^{-3}CC17 + 24F^{-3}CC16 + 8F^{-3}CC15 \\
& + 8F^{-3}CC14 + 17/49152*\ln(3)*F^{-3}\pi^{-4} - 1/8*\ln(3)*F^{-3}\pi^{-2}L_8r + 1/8*\ln(3)*F^{-3}\pi^{-2}L_7r \\
& - 1/8*\ln(3)*F^{-3}\pi^{-2}L_6r + 53/576*\ln(3)*F^{-3}\pi^{-2}L_5r + 1/96*\ln(3)*F^{-3}\pi^{-2}L_4r + 1/12*\ln(3)*F^{-3}\pi^{-2}L_3r \\
& + 1/24*\ln(3)*F^{-3}\pi^{-2}L_2r + 1/6*\ln(3)*F^{-3}\pi^{-2}L_1r - 23/24576*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} \\
& + 13/36*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}L_8r + 1/4*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}L_7r + 1/4*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}L_6r \\
& - 113/864*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}L_5r - 11/144*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}L_4r - 1/8*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}L_3r \\
& - 1/18*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}L_2r - 2/9*\ln(3)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-2}L_1r + 41/73728*\ln(3)*F^{-3}\sin x^2\pi^{-4} \\
& - 17/36*\ln(3)*F^{-3}\sin x^2\pi^{-2}L_8r - 11/12*\ln(3)*F^{-3}\sin x^2\pi^{-2}L_7r - 1/4*\ln(3)*F^{-3}\sin x^2\pi^{-2}L_6r + 23/288*\ln(3)*F^{-3}\sin x^2\pi^{-2}L_5r \\
& + 11/144*\ln(3)*F^{-3}\sin x^2\pi^{-2}L_4r + 7/72*\ln(3)*F^{-3}\sin x^2\pi^{-2}L_3r + 1/18*\ln(3)*F^{-3}\sin x^2\pi^{-2}L_2r + 2/9*\ln(3)*F^{-3}\sin x^2\pi^{-2}L_1r \\
& - 2/9*\ln(3)*F^{-3}\sin x^3*\cos x*\sqrt{3}\pi^{-2}L_8r - 2/3*\ln(3)*F^{-3}\sin x^3*\cos x*\sqrt{3}\pi^{-2}L_7r + 2/9*\ln(3)*F^{-3}\sin x^4\pi^{-2}L_8r + 2/3*\ln(3)*F^{-3}\sin x^4\pi^{-2}L_7r \\
& + 49/98304*\ln(3)^2F^{-3}\pi^{-4} - 43/55296*\ln(3)^2F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4} + 65/221184*\ln(3)^2F^{-3}\sin x^2\pi^{-4} - 19/110592*\ln(3)^2F^{-3}\sin x^3*\cos x*\sqrt{3}\pi^{-4} \\
& + 61/110592*\ln(3)^2F^{-3}\sin x^4\pi^{-4} + 1/3456*\ln(3)^2F^{-3}\sin x^5*\cos x*\sqrt{3}\pi^{-4} - 1/3456*\ln(3)^2F^{-3}\sin x^6*\pi^{-4} \\
& + 5/16384*\ln(3)*\ln(4)*F^{-3}\pi^{-4} - 23/73728*\ln(3)*\ln(4)*F^{-3}\sin x*\cos x*\sqrt{3}\pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& 4 - 5/8192*\ln(3)*\ln(4)*F^{-3}*\sin x^2*\pi^{-4} + 5/13824*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} + 1/4608*\ln(3)*\ln(4)*F^{-3}*\sin x^4*\pi^{-4} - \\
& 127/73728*\ln(3)*\ln(6)*F^{-3}*\pi^{-4} + 247/110592*\ln(3)*\ln(6)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - \\
& 4 - 5/36864*\ln(3)*\ln(6)*F^{-3}*\sin x^2*\pi^{-4} + 1/13824*\ln(3)*\ln(6)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} - 1/1536*\ln(3)*\ln(6)*F^{-3}*\sin x^4*\pi^{-4} - 29/147456*\ln(3)*\ln(8)*F^{-3}*\pi^{-4} - \\
& 19/110592*\ln(3)*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 5/6144*\ln(3)*\ln(8)*F^{-3}*\sin x^2*\pi^{-4} + 35/55296*\ln(3)*\ln(8)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} - \\
& 77/55296*\ln(3)*\ln(8)*F^{-3}*\sin x^4*\pi^{-4} - 1/1728*\ln(3)*\ln(8)*F^{-3}*\sin x^5*\cos x*\sqrt{3}*\pi^{-4} - \\
& 4 + 1/1728*\ln(3)*\ln(8)*F^{-3}*\sin x^6*\pi^{-4} - 1/12288*\ln(4)*F^{-3}*\pi^{-4} + 1/18432*\ln(4)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 1/6144*\ln(4)*F^{-3}*\sin x^2*\pi^{-4} - \\
& 5/16384*\ln(4)*\ln(8)*F^{-3}*\pi^{-4} + 23/73728*\ln(4)*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 5/8192*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\pi^{-4} - 5/13824*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} - 1/4608*\ln(4)*\ln(8)*F^{-3}*\sin x^4*\pi^{-4} - 5/12288*\ln(6)*F^{-3}*\pi^{-4} - 1/2*\ln(6)*F^{-3}*\pi^{-2}*L8r - 1/2*\ln(6)*F^{-3}*\pi^{-2}*L6r + 1/8*\ln(6)*F^{-3}*\pi^{-2}*L5r - 1/8*\ln(6)*F^{-3}*\pi^{-2}*L4r + 5/8*\ln(6)*F^{-3}*\pi^{-2}*L3r + 7/8*\ln(6)*F^{-3}*\pi^{-2}*L2r + 5/4*\ln(6)*F^{-3}*\pi^{-2}*L1r - 1/18432*\ln(6)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 1/6144*\ln(6)*F^{-3}*\sin x^2*\pi^{-4} + 1/2048*\ln(6)*F^{-3}*\pi^{-2}*F^{-3}*\pi^{-4} - 169/73728*\ln(6)*\ln(8)*F^{-3}*\pi^{-4} - 247/110592*\ln(6)*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} + 5/36864*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\pi^{-4} - 1/13824*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} + 1/1536*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\pi^{-4} + 133/147456*\ln(8)*F^{-3}*\pi^{-4} - 3/8*\ln(8)*F^{-3}*\pi^{-2}*L8r - 1/8*\ln(8)*F^{-3}*\pi^{-2}*L7r - 3/8*\ln(8)*F^{-3}*\pi^{-2}*L6r + 11/64*\ln(8)*F^{-3}*\pi^{-2}*L5r + 25/288*\ln(8)*F^{-3}*\pi^{-2}*L4r + 13/72*\ln(8)*F^{-3}*\pi^{-2}*L3r + 7/72*\ln(8)*F^{-3}*\pi^{-2}*L2r + 7/18*\ln(8)*F^{-3}*\pi^{-2}*L1r + 23/24576*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 13/36*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L8r - 1/4*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L7r - 1/4*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L6r + 113/864*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L5r + 11/144*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L4r + 1/8*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L3r + 1/18*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L2r + 2/9*\ln(8)*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-2}*L1r - 41/73728*\ln(8)*F^{-3}*\sin x^2*\pi^{-4} + 17/36*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L8r + 11/12*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L7r + 1/4*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L6r - 23/288*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L5r - 11/144*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L4r - 7/72*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L3r - 1/18*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L2r - 2/9*\ln(8)*F^{-3}*\sin x^2*\pi^{-2}*L1r + 2/9*\ln(8)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-2}*L8r + 2/3*\ln(8)*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-2}*L7r - 2/9*\ln(8)*F^{-3}*\sin x^4*\pi^{-2}*L8r - 2/3*\ln(8)*F^{-3}*\sin x^4*\pi^{-2}*L7r + 311/294912*\ln(8)^2*F^{-3}*\pi^{-4} + 35/36864*\ln(8)^2*F^{-3}*\sin x*\cos x*\sqrt{3}*\pi^{-4} - 245/221184*\ln(8)^2*F^{-3}*\sin x^2*\pi^{-4} - 17/36864*\ln(8)^2*F^{-3}*\sin x^3*\cos x*\sqrt{3}*\pi^{-4} + 31/36864*\ln(8)^2*F^{-3}*\sin x^4*\pi^{-4} + 1/3456*\ln(8)^2*F^{-3}*\sin x^5*\cos x*\sqrt{3}*\pi^{-4} - 1/3456*\ln(8)^2*F^{-3}*\sin x^6*\pi^{-4} + 1/6*Hb(2,3,4,1,p1ext.p1ext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/6*Hb(2,3,4,1,p1ext.p1ext)*F^{-3}*\sin x^2 - 1/24*Hb(2,4,8,1,p1ext.p1ext)*F^{-3} + 5/12*Hb(2,4,8,1,p1ext.p1ext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 1/12*Hb(2,4,8,1,p1ext.p1ext)*F^{-3}*\sin x^2 - 1/16*Hb(3,2,4,1,p1ext.p1ext)*F^{-3} - 5/18*Hb(3,3,6,1,p1ext.p1ext)*F^{-3} + 35/72*Hb(3,3,6,1,p1ext.p1ext)*F^{-3}*\sin x*\cos x*\sqrt{3} - 61/216*Hb(3,3,6,1,p1ext.p1ext)*F^{-3}*\sin x^2 + 5/27*Hb(3,3,6,1,p1ext.p1ext)*F^{-3}*\sin x^4 + 1/72*Hb(3,6,8,1,p1ext.p1ext)*F^{-3} - 3 - 2/27*Hb(3,6,8,1,p1ext.p1ext)*F^{-3}*\sin x^2 + 2/27*Hb(3,6,8,1,p1ext.p1ext)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^4 - 1/32^*\text{Hb}(4,2,3,1,\text{p1ext.p1ext})^*F^{-3} + 1/48^*\text{Hb}(4,2,3,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 1/16^*\text{Hb}(4,2,3,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^2 + 1/32^*\text{Hb}(4,2,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 - 1/48^*\text{Hb}(4,2,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/16^*\text{Hb}(4,2,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 + 3/32^*\text{Hb}(6,3,3,1,\text{p1ext.p1ext})^*F^{-3} - 5/32^*\text{Hb}(6,3,3,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 11/96^*\text{Hb}(6,3,3,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^2 - 1/12^*\text{Hb}(6,3,3,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^4 + 1/32^*\text{Hb}(6,3,8,1,\text{p1ext.p1ext})^*F^{-3} - 1/6^*\text{Hb}(6,3,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 + 1/6^*\text{Hb}(6,3,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^4 + 13/48^*\text{Hb}(6,8,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 + 85/288^*\text{Hb}(6,8,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 53/864^*\text{Hb}(6,8,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 - 13/108^*\text{Hb}(6,8,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^4 + 1/4^*\text{Hb}(7,6,6,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 - 1/16^*\text{Hb}(8,2,4,1,\text{p1ext.p1ext})^*F^{-3} + 3/8^*\text{H21b}(1,2,6,1,\text{p1ext.p1ext})^*F^{-3} \\
& + 15/64^*\text{H21b}(2,3,4,1,\text{p1ext.p1ext})^*F^{-3} - 9/32^*\text{H21b}(2,3,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 3/32^*\text{H21b}(2,3,4,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^2 + 9/64^*\text{H21b}(2,4,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 + 9/32^*\text{H21b}(2,4,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/32^*\text{H21b}(2,4,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 + 15/64^*\text{H21b}(3,2,4,1,\text{p1ext.p1ext})^*F^{-3} + 15/32^*\text{H21b}(3,2,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 3/32^*\text{H21b}(3,2,4,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^2 + 3/32^*\text{H21b}(4,2,3,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 - 3/16^*\text{H21b}(4,2,3,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 3/16^*\text{H21b}(4,2,3,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 + 9/32^*\text{H21b}(4,2,8,1,\text{p1ext.p1ext})^*F^{-3} + 3/16^*\text{H21b}(4,2,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} - 3/16^*\text{H21b}(4,2,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^2 + 3/8^*\text{H21b}(5,4,6,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 + 9/32^*\text{H21b}(6,3,3,1,\text{p1ext.p1ext})^*F^{-3} - 15/32^*\text{H21b}(6,3,3,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 11/32^*\text{H21b}(6,3,3,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^2 - 1/4^*\text{H21b}(6,3,3,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^4 + 3/32^*\text{H21b}(6,3,8,1,\text{p1ext.p1ext})^*F^{-3} - 1/2^*\text{H21b}(6,3,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 + 1/2^*\text{H21b}(6,3,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^4 + 3/8^*\text{H21b}(6,8,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 + 15/32^*\text{H21b}(6,8,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 5/32^*\text{H21b}(6,8,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 - 1/4^*\text{H21b}(6,8,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^4 + 3/4^*\text{H21b}(7,6,6,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 + 9/64^*\text{H21b}(8,2,4,1,\text{p1ext.p1ext})^*F^{-3} - 15/32^*\text{H21b}(8,2,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 3/32^*\text{H21b}(8,2,4,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^2 - 1/8^*\text{HH1b}(2,3,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 + 1/12^*\text{HH1b}(2,3,4,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/4^*\text{HH1b}(2,3,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 - 2/3^*\text{HH1b}(2,4,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 1/8^*\text{HH1b}(3,2,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 - 7/12^*\text{HH1b}(3,2,4,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/4^*\text{HH1b}(3,2,4,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 + 19/24^*\text{HH1b}(3,3,6,1,\text{p1ext.p1ext})^*F^{-3} - 5/4^*\text{HH1b}(3,3,6,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3} + 25/36^*\text{HH1b}(3,3,6,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^2 - \\
& 4/9^*\text{HH1b}(3,3,6,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^4 - 1/8^*\text{HH1b}(4,2,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 - 7/12^*\text{HH1b}(4,2,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} + 1/4^*\text{HH1b}(4,2,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 - 1/12^*\text{HH1b}(6,3,8,1,\text{p1ext.p1ext})^*F^{-3} + 4/9^*\text{HH1b}(6,3,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 - 4/9^*\text{HH1b}(6,3,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^4 - 25/48^*\text{HH1b}(6,8,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3 - 5/8^*\text{HH1b}(6,8,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^*\cos x^*\sqrt{3} - 7/72^*\text{HH1b}(6,8,8,1,\text{p1ext.p1ext})^*F^{-} \\
& 3^*\sin x^2 + 2/9^*\text{HH1b}(6,8,8,1,\text{p1ext.p1ext})^*F^{-3}*\sin x^4) \\
& + \text{mud}^2*\text{mkp2} * (+ 17/24576/(mass(3))^*\ln(3)^2*F^{-3}*\pi^{-4} - 41/27648/(mass(3))^*\ln(3)^2*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3}*\pi^{-4} + 3/2048/(mass(3))^*\ln(3)^2*F^{-3}*\sin x^2*\pi^{-4} + \\
& 1471/368640/(mass(6))^*\ln(6)^2*F^{-3}*\pi^{-4} + 779/368640/(mass(7))^*\ln(6)^2*F^{-} \\
& 3^*\pi^{-4} + 53/24576/(mass(8))^*\ln(8)^2*F^{-3}*\pi^{-4} + 41/27648/(mass(8))^*\ln(8)^2*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3}*\pi^{-4} - 3/2048/(mass(8))^*\ln(8)^2*F^{-3}*\sin x^2*\pi^{-4}) \\
& + \text{mud}^2*\text{mpp2} * (+ 7/24576/(mass(3))^*\ln(3)^2*F^{-3}*\pi^{-4} - 7/110592/(mass(3))^*\ln(3)^2*F^{-} \\
& 3^*\sin x^*\cos x^*\sqrt{3}*\pi^{-4} - 1/4096/(mass(3))^*\ln(3)^2*F^{-3}*\sin x^2*\pi^{-4} - \\
& 71/368640/(mass(6))^*\ln(6)^2*F^{-3}*\pi^{-4} + 161/368640/(mass(7))^*\ln(6)^2*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^*pi^{\wedge}4 + 1/24576/(mass(8))^*ln(8)^{\wedge}2^*F^{\wedge}-3^*pi^{\wedge}4 + 7/110592/(mass(8))^*ln(8)^{\wedge}2^*F^{\wedge}- \\
& 3^*sinx^*cosx^*sqrt{3}^*pi^{\wedge}4 + 1/4096/(mass(8))^*ln(8)^{\wedge}2^*F^{\wedge}-3^*sinx^{\wedge}2^*pi^{\wedge}4) \\
& + mud^{\wedge}3 * (- 11/36864/(mass(3))^*ln(3)^{\wedge}2^*F^{\wedge}-3^*pi^{\wedge}4 + 55/110592/(mass(3))^*ln(3)^{\wedge}2^*F^{\wedge}- \\
& 3^*sinx^*cosx^*sqrt{3}^*pi^{\wedge}4 - 1/4096/(mass(3))^*ln(3)^{\wedge}2^*F^{\wedge}-3^*sinx^{\wedge}2^*pi^{\wedge}4 - \\
& 257/184320/(mass(6))^*ln(6)^{\wedge}2^*F^{\wedge}-3^*pi^{\wedge}4 - 103/184320/(mass(7))^*ln(6)^{\wedge}2^*F^{\wedge}- \\
& 3^*pi^{\wedge}4 - 5/9216/(mass(8))^*ln(8)^{\wedge}2^*F^{\wedge}-3^*pi^{\wedge}4 - 55/110592/(mass(8))^*ln(8)^{\wedge}2^*F^{\wedge}- \\
& 3^*sinx^*cosx^*sqrt{3}^*pi^{\wedge}4 + 1/4096/(mass(8))^*ln(8)^{\wedge}2^*F^{\wedge}-3^*sinx^{\wedge}2^*pi^{\wedge}4);
\end{aligned}$$

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$$\begin{aligned}
& + mkp2 * (- 28/9^*Hb(1,2,3,plext.plext)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx + 8/3^*Hb(1,2,3,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}4^*cosx + 4/3^*Hb(1,2,8,plext.plext)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx - 8/3^*Hb(1,2,8,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}4^*cosx + 8/9^*Hb(1,5,6,plext.plext)^*F^{\wedge}-3^*sinx^*sqrt{3} - 8/9^*Hb(1,5,6,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}3^*sqrt{3} + 8/9^*Hb(2,4,7,plext.plext)^*F^{\wedge}-3^*sinx^*sqrt{3} - 8/9^*Hb(2,4,7,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}3^*sqrt{3} + 1/6^*Hb(3,1,2,plext.plext)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx - 1/3^*Hb(3,1,2,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}4^*cosx - 1/24^*Hb(3,4,4,qext.qext)^*F^{\wedge}-3^*sinx^*sqrt{3} - 2/9^*Hb(3,4,4,qext.qext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}2^*cosx + 1/6^*Hb(3,4,4,qext.qext)^*F^{\wedge}-3^*sinx^{\wedge}3^*sqrt{3} + 2/27^*Hb(3,4,5,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^*sqrt{3} + 13/36^*Hb(3,4,5,plext.plext)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx - 7/18^*Hb(3,4,5,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}3^*sqrt{3} - 5/18^*Hb(3,4,5,plext.plext)^*F^{\wedge}-3^*sinx^{\wedge}4^*cosx + 17/54^*Hb(3,4,5,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}5^*sqrt{3} - 1/24^*Hb(3,5,5,qext.qext)^*F^{\wedge}-3^*sinx^*sqrt{3} - 2/9^*Hb(3,5,5,qext.qext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}2^*cosx + 1/6^*Hb(3,5,5,qext.qext)^*F^{\wedge}-3^*sinx^{\wedge}3^*sqrt{3} + 1/24^*Hb(3,6,6,qext.qext)^*F^{\wedge}- \\
& 3^*sinx^*sqrt{3} - 2/9^*Hb(3,6,6,qext.qext)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx - 1/6^*Hb(3,6,6,qext.qext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}3^*sqrt{3} - 2/27^*Hb(3,6,7,plext.plext)^*F^{\wedge}-3^*sinx^*sqrt{3} + 13/36^*Hb(3,6,7,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}2^*cosx + 7/18^*Hb(3,6,7,plext.plext)^*F^{\wedge}-3^*sinx^{\wedge}3^*sqrt{3} - 5/18^*Hb(3,6,7,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}4^*cosx - 17/54^*Hb(3,6,7,plext.plext)^*F^{\wedge}-3^*sinx^{\wedge}5^*sqrt{3} + 1/24^*Hb(3,7,7,qext.qext)^*F^{\wedge}- \\
& 3^*sinx^*sqrt{3} - 2/9^*Hb(3,7,7,qext.qext)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx - 1/6^*Hb(3,7,7,qext.qext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}3^*sqrt{3} - 1/16^*Hb(4,1,6,qext.qext)^*F^{\wedge}-3^*sinx^*sqrt{3} + 1/6^*Hb(4,2,7,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^*sqrt{3} - 1/6^*Hb(4,2,7,plext.plext)^*F^{\wedge}-3^*sinx^{\wedge}3^*sqrt{3} - 1/16^*Hb(4,2,7,qext.qext)^*F^{\wedge}- \\
& 3^*sinx^*sqrt{3} + 7/6^*Hb(4,4,8,qext.qext)^*F^{\wedge}-3^*cosx - 2/9^*Hb(4,4,8,qext.qext)^*F^{\wedge}- \\
& 3^*sinx^*sqrt{3} - 4/9^*Hb(4,4,8,qext.qext)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx + 2/9^*Hb(4,4,8,qext.qext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}3^*sqrt{3} - 7/3^*Hb(4,5,8,plext.plext)^*F^{\wedge}-3^*cosx + 40/27^*Hb(4,5,8,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^*sqrt{3} + 10/9^*Hb(4,5,8,plext.plext)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx - 20/9^*Hb(4,5,8,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}3^*sqrt{3} - 4/9^*Hb(4,5,8,plext.plext)^*F^{\wedge}-3^*sinx^{\wedge}4^*cosx + 20/27^*Hb(4,5,8,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}5^*sqrt{3} + 1/6^*Hb(5,1,6,plext.plext)^*F^{\wedge}-3^*sinx^*sqrt{3} - 1/6^*Hb(5,1,6,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}3^*sqrt{3} - 1/16^*Hb(5,1,7,qext.qext)^*F^{\wedge}-3^*sinx^*sqrt{3} - 1/16^*Hb(5,2,6,qext.qext)^*F^{\wedge}- \\
& 3^*sinx^*sqrt{3} + 7/6^*Hb(5,5,8,qext.qext)^*F^{\wedge}-3^*cosx - 2/9^*Hb(5,5,8,qext.qext)^*F^{\wedge}- \\
& 3^*sinx^*sqrt{3} - 4/9^*Hb(5,5,8,qext.qext)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx + 2/9^*Hb(5,5,8,qext.qext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}3^*sqrt{3} + 1/16^*Hb(6,1,4,qext.qext)^*F^{\wedge}-3^*sinx^*sqrt{3} - 1/6^*Hb(6,1,5,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^*sqrt{3} + 1/6^*Hb(6,1,5,plext.plext)^*F^{\wedge}-3^*sinx^{\wedge}3^*sqrt{3} + 1/16^*Hb(6,2,5,qext.qext)^*F^{\wedge}- \\
& 3^*sinx^*sqrt{3} + 7/6^*Hb(6,6,8,qext.qext)^*F^{\wedge}-3^*cosx + 2/9^*Hb(6,6,8,qext.qext)^*F^{\wedge}- \\
& 3^*sinx^*sqrt{3} - 4/9^*Hb(6,6,8,qext.qext)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx - 2/9^*Hb(6,6,8,qext.qext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}3^*sqrt{3} - 7/3^*Hb(6,7,8,plext.plext)^*F^{\wedge}-3^*cosx - 40/27^*Hb(6,7,8,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^*sqrt{3} + 10/9^*Hb(6,7,8,plext.plext)^*F^{\wedge}-3^*sinx^{\wedge}2^*cosx + 20/9^*Hb(6,7,8,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}3^*sqrt{3} - 4/9^*Hb(6,7,8,plext.plext)^*F^{\wedge}-3^*sinx^{\wedge}4^*cosx - 20/27^*Hb(6,7,8,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^{\wedge}5^*sqrt{3} + 1/16^*Hb(7,1,5,qext.qext)^*F^{\wedge}-3^*sinx^*sqrt{3} - 1/6^*Hb(7,2,4,plext.plext)^*F^{\wedge}- \\
& 3^*sinx^*sqrt{3} + 1/6^*Hb(7,2,4,plext.plext)^*F^{\wedge}-3^*sinx^{\wedge}3^*sqrt{3} + 1/16^*Hb(7,2,4,qext.qext)^*F^{\wedge}-
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\sqrt{3} + 1/2^*H21b(8,6,6,qext.qext)^*F^{-3}*\sin x^3*\sqrt{3} + 9/4^*H21b(8,6,7,p1ext.p1ext)^*F^{-} \\
& 3^*\cos x + 2^*H21b(8,6,7,p1ext.p1ext)^*F^{-3}*\sin x^*\sqrt{3} + 1/2^*H21b(8,6,7,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^2*\cos x - 3^*H21b(8,6,7,p1ext.p1ext)^*F^{-3}*\sin x^3*\sqrt{3} - H21b(8,6,7,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^4*\cos x + H21b(8,6,7,p1ext.p1ext)^*F^{-3}*\sin x^5*\sqrt{3} - 9/8^*H21b(8,7,7,qext.qext)^*F^{-} \\
& 3^*\cos x - 1/2^*H21b(8,7,7,qext.qext)^*F^{-3}*\sin x^*\sqrt{3} + 1/2^*H21b(8,7,7,qext.qext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 4^*HH1b(1,2,3,p1ext.p1ext)^*F^{-3}*\sin x^2*\cos x - 32/9^*HH1b(1,2,3,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^4*\cos x - 16/9^*HH1b(1,2,8,p1ext.p1ext)^*F^{-3}*\sin x^2*\cos x + 32/9^*HH1b(1,2,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^4*\cos x + 1/3^*HH1b(1,4,6,qext.qext)^*F^{-3}*\cos x - 2/3^*HH1b(1,5,6,p1ext.p1ext)^*F^{-} \\
& 3^*\cos x - 8/9^*HH1b(1,5,6,p1ext.p1ext)^*F^{-3}*\sin x^*\sqrt{3} + 8/9^*HH1b(1,5,6,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 1/3^*HH1b(1,5,7,qext.qext)^*F^{-3}*\cos x + 4^*HH1b(2,1,3,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^2*\cos x - 32/9^*HH1b(2,1,3,p1ext.p1ext)^*F^{-3}*\sin x^4*\cos x - 16/9^*HH1b(2,1,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^2*\cos x + 32/9^*HH1b(2,1,8,p1ext.p1ext)^*F^{-3}*\sin x^4*\cos x - 2/3^*HH1b(2,4,7,p1ext.p1ext)^*F^{-} \\
& 3^*\cos x - 8/9^*HH1b(2,4,7,p1ext.p1ext)^*F^{-3}*\sin x^*\sqrt{3} + 8/9^*HH1b(2,4,7,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 1/3^*HH1b(2,4,7,qext.qext)^*F^{-3}*\cos x + 1/3^*HH1b(2,5,6,qext.qext)^*F^{-} \\
& 3^*\cos x + 1/6^*HH1b(3,4,4,qext.qext)^*F^{-3}*\cos x + 2/9^*HH1b(3,4,4,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 2/3^*HH1b(3,4,4,qext.qext)^*F^{-3}*\sin x^2*\cos x - 2/9^*HH1b(3,4,4,qext.qext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 1/3^*HH1b(3,4,5,p1ext.p1ext)^*F^{-3}*\cos x - 2/3^*HH1b(3,4,5,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 2/3^*HH1b(3,4,5,p1ext.p1ext)^*F^{-3}*\sin x^2*\cos x + 14/9^*HH1b(3,4,5,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 8/9^*HH1b(3,4,5,p1ext.p1ext)^*F^{-3}*\sin x^4*\cos x - 8/9^*HH1b(3,4,5,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^5*\sqrt{3} + 1/6^*HH1b(3,5,5,qext.qext)^*F^{-3}*\cos x + 2/9^*HH1b(3,5,5,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 2/3^*HH1b(3,5,5,qext.qext)^*F^{-3}*\sin x^2*\cos x - 2/9^*HH1b(3,5,5,qext.qext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 1/6^*HH1b(3,6,6,qext.qext)^*F^{-3}*\cos x - 2/9^*HH1b(3,6,6,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 2/3^*HH1b(3,6,6,qext.qext)^*F^{-3}*\sin x^2*\cos x + 2/9^*HH1b(3,6,6,qext.qext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 1/3^*HH1b(3,6,7,p1ext.p1ext)^*F^{-3}*\cos x + 2/3^*HH1b(3,6,7,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 2/3^*HH1b(3,6,7,p1ext.p1ext)^*F^{-3}*\sin x^2*\cos x - 14/9^*HH1b(3,6,7,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 8/9^*HH1b(3,6,7,p1ext.p1ext)^*F^{-3}*\sin x^4*\cos x + 8/9^*HH1b(3,6,7,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^5*\sqrt{3} + 1/6^*HH1b(3,7,7,qext.qext)^*F^{-3}*\cos x - 2/9^*HH1b(3,7,7,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 2/3^*HH1b(3,7,7,qext.qext)^*F^{-3}*\sin x^2*\cos x + 2/9^*HH1b(3,7,7,qext.qext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 16/9^*HH1b(4,2,7,p1ext.p1ext)^*F^{-3}*\sin x^*\sqrt{3} + 16/9^*HH1b(4,2,7,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 3^*HH1b(4,4,8,qext.qext)^*F^{-3}*\cos x + 4/9^*HH1b(4,4,8,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 4/3^*HH1b(4,4,8,qext.qext)^*F^{-3}*\sin x^2*\cos x - 4/9^*HH1b(4,4,8,qext.qext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 3^*HH1b(4,5,8,p1ext.p1ext)^*F^{-3}*\cos x - 16/9^*HH1b(4,5,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 16/9^*HH1b(4,5,8,p1ext.p1ext)^*F^{-3}*\sin x^2*\cos x + 8/3^*HH1b(4,5,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 8/9^*HH1b(4,5,8,p1ext.p1ext)^*F^{-3}*\sin x^4*\cos x - 8/9^*HH1b(4,5,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^5*\sqrt{3} - 16/9^*HH1b(5,1,6,p1ext.p1ext)^*F^{-3}*\sin x^*\sqrt{3} + 16/9^*HH1b(5,1,6,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 3^*HH1b(5,4,8,p1ext.p1ext)^*F^{-3}*\cos x - 16/9^*HH1b(5,4,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 16/9^*HH1b(5,4,8,p1ext.p1ext)^*F^{-3}*\sin x^2*\cos x + 8/3^*HH1b(5,4,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 8/9^*HH1b(5,4,8,p1ext.p1ext)^*F^{-3}*\sin x^4*\cos x - 8/9^*HH1b(5,4,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^5*\sqrt{3} - 3^*HH1b(5,5,8,qext.qext)^*F^{-3}*\cos x + 4/9^*HH1b(5,5,8,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 4/3^*HH1b(5,5,8,qext.qext)^*F^{-3}*\sin x^2*\cos x - 4/9^*HH1b(5,5,8,qext.qext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 3^*HH1b(6,6,8,qext.qext)^*F^{-3}*\cos x - 4/9^*HH1b(6,6,8,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 4/3^*HH1b(6,6,8,qext.qext)^*F^{-3}*\sin x^2*\cos x + 4/9^*HH1b(6,6,8,qext.qext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 3^*HH1b(6,7,8,p1ext.p1ext)^*F^{-3}*\cos x + 16/9^*HH1b(6,7,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 16/9^*HH1b(6,7,8,p1ext.p1ext)^*F^{-3}*\sin x^2*\cos x - 8/3^*HH1b(6,7,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 8/9^*HH1b(6,7,8,p1ext.p1ext)^*F^{-3}*\sin x^4*\cos x + 8/9^*HH1b(6,7,8,p1ext.p1ext)^*F^{-} \\
& 3^*\sin x^5*\sqrt{3} + 3^*HH1b(7,6,8,p1ext.p1ext)^*F^{-3}*\cos x + 16/9^*HH1b(7,6,8,p1ext.p1ext)^*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\sqrt{3} - 16/9^*\text{HH1b}(7,6,8,\text{p1ext.p1ext})^*F^{-3^*\sin x^2*\cos x} - 8/3^*\text{HH1b}(7,6,8,\text{p1ext.p1ext})^*F^{-3^*\sin x^3*\sqrt{3}} + 8/9^*\text{HH1b}(7,6,8,\text{p1ext.p1ext})^*F^{-3^*\sin x^4*\cos x} + 8/9^*\text{HH1b}(7,6,8,\text{p1ext.p1ext})^*F^{-3^*\sin x^5*\sqrt{3}} - 3^*\text{HH1b}(7,7,8,\text{qext.qext})^*F^{-3^*\cos x} - 4/9^*\text{HH1b}(7,7,8,\text{qext.qext})^*F^{-3^*\sin x^*\sqrt{3}} + 4/3^*\text{HH1b}(7,7,8,\text{qext.qext})^*F^{-3^*\sin x^2*\cos x} + 4/9^*\text{HH1b}(7,7,8,\text{qext.qext})^*F^{-3^*\sin x^3*\sqrt{3}} \\
& + \text{mkp}2^2 * (+ 49/24576^*F^{-3^*\cos x^*\pi^{-4}} + 5/6144^*F^{-3^*\cos x^*\pi^{-2}} - 3/2^*F^{-3^*\cos x^*\pi^{-2}*L8r} - 3^*F^{-3^*\cos x^*\pi^{-2}*L6r} + 3/4^*F^{-3^*\cos x^*\pi^{-2}*L5r} + 3/2^*F^{-3^*\cos x^*\pi^{-2}*L4r} - 19/144^*F^{-3^*\cos x^*\pi^{-2}*L3r} - 17/36^*F^{-3^*\cos x^*\pi^{-2}*L2r} - 2/9^*F^{-3^*\cos x^*\pi^{-2}*L1r} - 128/9^*F^{-3^*\cos x^*L5r^2} - 128/3^*F^{-3^*\cos x^*L4r*L5r} - 32^*F^{-3^*\cos x^*L4r^2} + 64/3^*F^{-3^*\cos x^*CC18} + 64/3^*F^{-3^*\cos x^*CC17} + 32^*F^{-3^*\cos x^*CC16} + 64/3^*F^{-3^*\cos x^*CC15} + 64/3^*F^{-3^*\cos x^*CC14} - 89/69120^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} - 7/12960^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}} + 4/9^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}*L8r} - 2/9^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}*L5r} - 1/18^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}*L3r} + 256/3^*F^{-3^*\sin x^2*\cos x^*CC18} + 256/9^*F^{-3^*\sin x^2*\cos x^*CC17} + 256/9^*F^{-3^*\sin x^2*\cos x^*CC14} + 125/15552^*C^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} + 8/9^*C^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}*L8r} - 8/9^*C^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}*L5r} - 23/8640^*C^2^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} + 1/120^*C^*\ln(3)^*F^{-3^*\sin x^4*\cos x^*\pi^{-4}} - 35/27648^*C^*\ln(4)^*F^{-3^*\sin x^*\sqrt{3}^*\pi^{-4}} + 13/5760^*C^*\ln(4)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} + 23/17280^*C^*\ln(4)^*F^{-3^*\sin x^3*\sqrt{3}^*\pi^{-4}} + 35/27648^*C^*\ln(6)^*F^{-3^*\sin x^*\sqrt{3}^*\pi^{-4}} + 13/5760^*C^*\ln(6)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} - 23/17280^*C^*\ln(6)^*F^{-3^*\sin x^3*\sqrt{3}^*\pi^{-4}} + 1/120^*C^*\ln(8)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} - 1/120^*C^*\ln(8)^*F^{-3^*\sin x^4*\cos x^*\pi^{-4}} + 1/576^*\ln(3)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} - 4/27^*\ln(3)^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}*L5r} + 1/864^*\ln(3)^*F^{-3^*\sin x^4*\cos x^*\pi^{-4}} - 8/27^*\ln(3)^*F^{-3^*\sin x^4*\cos x^*\pi^{-2}*L5r} - 41/103680^*\ln(3)^*\ln(4)^*F^{-3^*\sin x^*\sqrt{3}^*\pi^{-4}} + 1/1152^*\ln(3)^*\ln(4)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} + 13/17280^*\ln(3)^*\ln(4)^*F^{-3^*\sin x^3*\sqrt{3}^*\pi^{-4}} - 1/8640^*\ln(3)^*\ln(4)^*F^{-3^*\sin x^4*\cos x^*\pi^{-4}} - 1/25920^*\ln(3)^*\ln(4)^*F^{-3^*\sin x^5*\sqrt{3}^*\pi^{-4}} + 41/103680^*\ln(3)^*\ln(6)^*F^{-3^*\sin x^*\sqrt{3}^*\pi^{-4}} + 1/1152^*\ln(3)^*\ln(6)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} - 13/17280^*\ln(3)^*\ln(6)^*F^{-3^*\sin x^3*\sqrt{3}^*\pi^{-4}} - 1/8640^*\ln(3)^*\ln(6)^*F^{-3^*\sin x^4*\cos x^*\pi^{-4}} + 1/25920^*\ln(3)^*\ln(6)^*F^{-3^*\sin x^5*\sqrt{3}^*\pi^{-4}} + 3/1024^*\ln(4)^*F^{-3^*\cos x^*\pi^{-4}} - 3/4^*\ln(4)^*F^{-3^*\cos x^*\pi^{-2}*L8r} - 3/2^*\ln(4)^*F^{-3^*\cos x^*\pi^{-2}*L6r} + 7/24^*\ln(4)^*F^{-3^*\cos x^*\pi^{-2}*L5r} + 5/8^*\ln(4)^*F^{-3^*\cos x^*\pi^{-2}*L4r} + 7/16^*\ln(4)^*F^{-3^*\cos x^*\pi^{-2}*L3r} + 1/4^*\ln(4)^*F^{-3^*\cos x^*\pi^{-2}*L2r} + \ln(4)^*F^{-3^*\cos x^*\pi^{-2}*L1r} - 1/4608^*\ln(4)^*F^{-3^*\sin x^*\sqrt{3}^*\pi^{-4}} + 1/9^*\ln(4)^*F^{-3^*\sin x^*\sqrt{3}^*\pi^{-2}*L8r} + 2/9^*\ln(4)^*F^{-3^*\sin x^*\sqrt{3}^*\pi^{-2}*L6r} - 13/108^*\ln(4)^*F^{-3^*\sin x^*\sqrt{3}^*\pi^{-2}*L5r} - 1/6^*\ln(4)^*F^{-3^*\sin x^*\sqrt{3}^*\pi^{-2}*L4r} + 1/24^*\ln(4)^*F^{-3^*\sin x^*\sqrt{3}^*\pi^{-2}*L3r} - 1/768^*\ln(4)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} + 2/9^*\ln(4)^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}*L8r} - 1/9^*\ln(4)^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}*L5r} - 1/6^*\ln(4)^*F^{-3^*\sin x^2*\cos x^*\pi^{-2}*L3r} - 1/576^*\ln(4)^*F^{-3^*\sin x^3*\sqrt{3}^*\pi^{-4}} + 2/9^*\ln(4)^*F^{-3^*\sin x^3*\sqrt{3}^*\pi^{-2}*L8r} + 4/9^*\ln(4)^*F^{-3^*\sin x^3*\sqrt{3}^*\pi^{-2}*L6r} - 2/27^*\ln(4)^*F^{-3^*\sin x^3*\sqrt{3}^*\pi^{-2}*L5r} - 1/3^*\ln(4)^*F^{-3^*\sin x^3*\sqrt{3}^*\pi^{-2}*L4r} - 1/6^*\ln(4)^*F^{-3^*\sin x^3*\sqrt{3}^*\pi^{-2}*L3r} + 5/24576^*\ln(4)^2^*F^{-3^*\cos x^*\pi^{-4}} + 5/13824^*\ln(4)^2^*F^{-3^*\sin x^*\sqrt{3}^*\pi^{-4}} - 1/960^*\ln(4)^2^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}} - 13/17280^*\ln(4)^2^*F^{-3^*\sin x^3*\sqrt{3}^*\pi^{-4}} - 1/1152^*\ln(4)^2^*F^{-3^*\sin x^4*\cos x^*\pi^{-4}} - 5/12288^*\ln(4)^*\ln(6)^*F^{-3^*\cos x^*\pi^{-4}} + 1/720^*\ln(4)^*\ln(6)^*F^{-3^*\sin x^2*\cos x^*\pi^{-4}}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^2*\cos x*\pi^{-4} + 1/576*\ln(4)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 1/768*\ln(4)*\ln(8)*F^{-3}*\cos x*\pi^{-4} + 53/51840*\ln(4)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 17/17280*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 11/10368*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/8640*\ln(4)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 1/25920*\ln(4)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 3/1024*\ln(6)*F^{-3}*\cos x*\pi^{-4} - 3/4*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L8r - 3/2*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L6r + 7/24*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L5r + 5/8*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L4r + 7/16*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L3r + 1/4*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L2r + \ln(6)*F^{-3}*\cos x*\pi^{-2}*L1r + 1/4608*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 1/9*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r - 2/9*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r + 13/108*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r + 1/6*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r - 1/24*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r - 1/768*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 2/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r - 1/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r - 1/6*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r + 1/576*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 2/9*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r - 4/9*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r + 2/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r + 1/3*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r + 1/6*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L3r + 5/24576*\ln(6)^2*F^{-3}*\cos x*\pi^{-4} - 5/13824*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 1/960*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 13/17280*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/1152*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 1/768*\ln(6)*\ln(8)*F^{-3}*\cos x*\pi^{-4} - 53/51840*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 17/17280*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 11/10368*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/8640*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 1/25920*\ln(6)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} - 1/384*\ln(8)*F^{-3}*\cos x*\pi^{-4} - 8/27*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L5r - 4/9*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L4r + 2/3*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L3r + 4/3*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L2r + 4/3*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L1r - 1/1728*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 4/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r - 1/864*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 8/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r + 32/9*Hb(1,2,3,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 16/9*Hb(1,2,3,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} - 16/9*Hb(1,2,3,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 8/9*Hb(1,2,3,1,plext.plext)*F^{-3}*\sin x^4*\cos x - 16/9*Hb(1,2,8,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 16/9*Hb(1,2,8,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} + 8/9*Hb(1,2,8,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 8/9*Hb(1,2,8,1,plext.plext)*F^{-3}*\sin x^4*\cos x - 8/9*Hb(1,5,6,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 8/9*Hb(1,5,6,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 8/9*Hb(1,5,6,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 4/9*Hb(1,5,6,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 4/9*Hb(1,5,6,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 4/9*Hb(1,5,6,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 8/9*Hb(2,4,7,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 8/9*Hb(2,4,7,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 8/9*Hb(2,4,7,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 4/9*Hb(2,4,7,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 4/9*Hb(2,4,7,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 4/9*Hb(2,4,7,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 4/9*Hb(3,1,2,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 4/9*Hb(3,1,2,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} + 2/9*Hb(3,1,2,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 2/9*Hb(3,1,2,1,plext.plext)*F^{-3}*\sin x^4*\cos x + 16/243*Hb(3,3,3,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 352/243*Hb(3,3,3,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} - 256/81*Hb(3,3,3,plext.plext)*F^{-3}*\sin x^6*\cos x*m83^{-1} + 512/243*Hb(3,3,3,plext.plext)*F^{-3}*\sin x^8*\cos x*m83^{-1} + 32/243*Hb(3,3,3,1,plext.plext)*F^{-3}*\sin x^2*\cos x -
\end{aligned}$$

$$\begin{aligned}
& 32/27*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 512/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sin x^6*\cos x \\
& - 256/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sin x^8*\cos x - 16/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 224/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 256/27*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin x^6*\cos x*m83^{-1} \\
& - 512/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin x^8*\cos x*m83^{-1} + 256/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x \\
& - 512/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3}*\sin x^6*\cos x + 256/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3}*\sin x^8*\cos x + 1/81*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 10/27*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& - 7/81*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 2/27*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 2/27*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} \\
& - 1/54*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/27*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/18*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/27*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 1/27*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} - 1/81*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 10/27*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& + 7/81*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 2/27*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - 2/27*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} \\
& + 1/54*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/27*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/18*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/27*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 1/27*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} + 16/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 224/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& - 256/27*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x^6*\cos x*m83^{-1} + 512/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x^8*\cos x*m83^{-1} + 32/81*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 32/9*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 512/81*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin x^6*\cos x - 256/81*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin x^8*\cos x - 2/9*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 2/9*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} \\
& + 1/9*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/9*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 76/81*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 8/9*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 148/81*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 40/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& - 8/9*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - 16/9*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\cos x + 22/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 28/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 34/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 20/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 4/9*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} - 2/9*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 2/9*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/9*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/9*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + 2/9*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 2/9*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/9*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/9*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + 76/81*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 8/9*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 148/81*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 40/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 8/9*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - 16/9*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\cos x - 22/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 28/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 34/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 20/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 4/9*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} + 2/9*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 2/9*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/9*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin^3*\sqrt{3} + 4/27*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + \\
& 28/27*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\sin^2*\cos^3*m83^{-1} - 20/27*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 16/9*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\sin^4*\cos^3*m83^{-1} \\
& 1 + 16/27*\text{HH1b}(3,4,5,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} - 8/27*\text{HH1b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} - 4/3*\text{HH1b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin^2*\cos^3 + 16/27*\text{HH1b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} \\
& + 8/9*\text{HH1b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin^4*\cos^3 - 8/27*\text{HH1b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3} - 4/27*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 28/27*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\sin^2*\cos^3*m83^{-1} \\
& 1 + 20/27*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 16/9*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\sin^4*\cos^3*m83^{-1} - 16/27*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} \\
& 1 + 8/27*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} - 4/3*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^2*\cos^3 - 16/27*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} + 8/9*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^4*\cos^3 + 8/27*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3} \\
& + 16/9*\text{HH1b}(4,2,7,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 16/9*\text{HH1b}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} + 8/9*\text{HH1b}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin^2*\cos^3 + 28/27*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 52/27*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin^2*\cos^3*m83^{-1} \\
& 1 - 44/27*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 16/9*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin^4*\cos^3*m83^{-1} + 16/27*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} \\
& 1 + 8/3*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\cos^3 - 20/27*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} - 16/9*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos^3 + 28/27*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} + 8/9*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^4*\cos^3 - 8/27*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3} + 16/9*\text{HH1b}(5,1,6,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 16/9*\text{HH1b}(5,1,6,\text{plext.plext})*F^{-3}*\sin^2*\cos^3 + 8/9*\text{HH1b}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} + 28/27*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 52/27*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin^2*\cos^3*m83^{-1} - 44/27*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 16/9*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin^4*\cos^3*m83^{-1} + 16/27*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} + 8/3*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\cos^3 - 20/27*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} - 16/9*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos^3 + 28/27*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} + 8/9*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin^4*\cos^3 - 8/27*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3} - 28/27*\text{HH1b}(6,7,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 52/27*\text{HH1b}(6,7,8,\text{plext.plext})*F^{-3}*\sin^2*\cos^3*m83^{-1} + 44/27*\text{HH1b}(6,7,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 16/9*\text{HH1b}(6,7,8,\text{plext.plext})*F^{-3}*\sin^4*\cos^3*m83^{-1} - 16/27*\text{HH1b}(6,7,8,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} + 8/3*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\cos^3 + 20/27*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} - 16/9*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos^3 - 28/27*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} + 8/9*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin^4*\cos^3 + 8/27*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3} - 28/27*\text{HH1b}(7,6,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 52/27*\text{HH1b}(7,6,8,\text{plext.plext})*F^{-3}*\sin^2*\cos^3*m83^{-1} + 44/27*\text{HH1b}(7,6,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 16/9*\text{HH1b}(7,6,8,\text{plext.plext})*F^{-3}*\sin^4*\cos^3*m83^{-1} - 16/27*\text{HH1b}(7,6,8,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} + 8/3*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\cos^3 + 20/27*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} - 16/9*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos^3 - 28/27*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} + 8/9*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\sin^4*\cos^3 + 8/27*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}
\end{aligned}$$

$$\begin{aligned}
& 3^{\text{sinx}^5 \sqrt{3}} \\
& + \text{mkp}2^3 * (- 1253/31104 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} - 293/46656 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} m83^{-1}} - 160/27 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L8r * m83^{-1}} - \\
& 64/27 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L7r * m83^{-1}} - 160/27 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L6r * m83^{-1}} + 208/81 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L5r * m83^{-1}} + 80/27 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L4r * m83^{-1}} + 2/27 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L3r * m83^{-1}} \\
& + 4096/27 * F^{-3 \text{sinx}^2 \text{cosx} L5r * L8r * m83^{-1}} + 4096/9 * F^{-3 \text{sinx}^2 \text{cosx} L5r * L7r * m83^{-1}} + 4096/9 * F^{-3 \text{sinx}^2 \text{cosx} L4r * L8r * m83^{-1}} + 4096/3 * F^{-3 \text{sinx}^2 \text{cosx} L4r * L7r * m83^{-1}} \\
& + 4096/9 * F^{-3 \text{sinx}^2 \text{cosx} CC33 * m83^{-1}} + 2048/9 * F^{-3 \text{sinx}^2 \text{cosx} CC32 * m83^{-1}} + 2048/9 * F^{-3 \text{sinx}^2 \text{cosx} CC31 * m83^{-1}} + 2048/9 * F^{-3 \text{sinx}^2 \text{cosx} CC20 * m83^{-1}} \\
& + 1024/3 * F^{-3 \text{sinx}^2 \text{cosx} CC19 * m83^{-1}} - 1024/9 * F^{-3 \text{sinx}^2 \text{cosx} CC18 * m83^{-1}} - 1024/27 * F^{-3 \text{sinx}^2 \text{cosx} CC17 * m83^{-1}} - 1024/27 * F^{-3 \text{sinx}^2 \text{cosx} CC14 * m83^{-1}} \\
& - 128/27 * C * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L8r * m83^{-1}} - 128/9 * C * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L7r * m83^{-1}} + 23/3240 * C * \ln(3) * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} + \\
& 1/162 * C * \ln(3) * F^{-3 \text{sinx}^4 \text{cosx} \pi^{-4} m83^{-1}} - 97/34560 * C * \ln(4) * F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-1}} + 1/216 * C * \ln(4) * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} \\
& + 1/216 * C * \ln(4) * F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-4} m83^{-1}} + 97/34560 * C * \ln(6) * F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-1}} + 1/216 * C * \ln(6) * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} \\
& - 1/216 * C * \ln(6) * F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-4} m83^{-1}} - 1/1080 * C * \ln(8) * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} - 1/162 * C * \ln(8) * F^{-3 \text{sinx}^4 \text{cosx} \pi^{-4} m83^{-1}} \\
& + 1/972 * \ln(3) * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} - 352/81 * \ln(3) * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L8r * m83^{-1}} - 256/27 * \ln(3) * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L7r * m83^{-1}} + 8/81 * \ln(3) * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L5r * m83^{-1}} - 1/243 * \ln(3) * F^{-3 \text{sinx}^4 \text{cosx} \pi^{-4} m83^{-1}} - 1088/81 * \ln(3) * F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L8r * m83^{-1}} - 256/9 * \ln(3) * F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L7r * m83^{-1}} - 128/27 * \ln(3) * F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L6r * m83^{-1}} + 112/81 * \ln(3) * F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L5r * m83^{-1}} + 16/9 * \ln(3) * F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L4r * m83^{-1}} + 512/81 * \ln(3) * F^{-3 \text{sinx}^6 \text{cosx} \pi^{-2} L8r * m83^{-1}} + 512/27 * \ln(3) * F^{-3 \text{sinx}^6 \text{cosx} \pi^{-2} L7r * m83^{-1}} + 47/31104 * \ln(3)^2 * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} + 7/1944 * \ln(3)^2 * F^{-3 \text{sinx}^4 \text{cosx} \pi^{-4} m83^{-1}} + 17/1944 * \ln(3)^2 * F^{-3 \text{sinx}^6 \text{cosx} \pi^{-4} m83^{-1}} - 2/243 * \ln(3)^2 * F^{-3 \text{sinx}^8 \text{cosx} \pi^{-4} m83^{-1}} - 11/7776 * \ln(3) * \ln(4) * F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-1}} + 1/8640 * \ln(3) * \ln(4) * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} - 29/25920 * \ln(3) * \ln(4) * F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-4} m83^{-1}} + 23/1944 * \ln(3) * \ln(4) * F^{-3 \text{sinx}^5 \sqrt{3} \pi^{-4} m83^{-1}} - 1/162 * \ln(3) * \ln(4) * F^{-3 \text{sinx}^6 \text{cosx} \pi^{-4} m83^{-1}} - 1/108 * \ln(3) * \ln(4) * F^{-3 \text{sinx}^7 \sqrt{3} \pi^{-4} m83^{-1}} + 11/7776 * \ln(3) * \ln(6) * F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-1}} + 1/8640 * \ln(3) * \ln(6) * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} + 29/25920 * \ln(3) * \ln(6) * F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-4} m83^{-1}} - 23/1944 * \ln(3) * \ln(6) * F^{-3 \text{sinx}^5 \sqrt{3} \pi^{-4} m83^{-1}} - 1/162 * \ln(3) * \ln(6) * F^{-3 \text{sinx}^6 \text{cosx} \pi^{-4} m83^{-1}} + 1/108 * \ln(3) * \ln(6) * F^{-3 \text{sinx}^7 \sqrt{3} \pi^{-4} m83^{-1}} + 1/1728 * \ln(3) * \ln(8) * F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} + 2/243 * \ln(3) * \ln(8) * F^{-3 \text{sinx}^4 \text{cosx} \pi^{-4} m83^{-1}} - 25/972 * \ln(3) * \ln(8) * F^{-3 \text{sinx}^6 \text{cosx} \pi^{-4} m83^{-1}} + 4/243 * \ln(3) * \ln(8) * F^{-3 \text{sinx}^8 \text{cosx} \pi^{-4} m83^{-1}} - 19/5184 * \ln(4) * F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-1}} - 34/27 * \ln(4) * F^{-3 \text{sinx} \sqrt{3} \pi^{-2} L8r * m83^{-1}} - 52/9 * \ln(4) * F^{-3 \text{sinx} \sqrt{3} \pi^{-2} L7r * m83^{-1}} + 8/3 * \ln(4) * F^{-3 \text{sinx} \sqrt{3} \pi^{-2} L6r * m83^{-1}} - 2/27 * \ln(4) * F^{-3 \text{sinx} \sqrt{3} \pi^{-2} L5r * m83^{-1}} - \ln(4) * F^{-3 \text{sinx}^5 \sqrt{3}}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-1} - 2/9*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L3r}^*m83^{\wedge-1} \\
& - 1/1728*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} - 272/27*\ln(4)^*F^{\wedge-3} \\
& * \sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-1} - 16*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-1} \\
& - 32/9*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-1} + 52/27*\ln(4)^*F^{\wedge-3} \\
& * \sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-1} + 4/3*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2} \\
& * \text{L4r}^*m83^{\wedge-1} + 2/9*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L3r}^*m83^{\wedge-1} + 89/15552*\ln(4)^*F^{\wedge-3} \\
& * \sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} - 272/81*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-1} \\
& - 176/27*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-1} - 32/9*\ln(4)^*F^{\wedge-3} \\
& * \sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-1} + 4/27*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2} \\
& * \text{L5r}^*m83^{\wedge-1} + 4/3*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-1} + 2/9*\ln(4)^*F^{\wedge-3} \\
& * \sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L3r}^*m83^{\wedge-1} - 1/486*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} \\
& * m83^{\wedge-1} + 320/81*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-1} + 320/27*\ln(4)^*F^{\wedge-3} \\
& * \sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-1} - 1/1152*\ln(4)^{\wedge 2}*\text{F}^{\wedge-3}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} \\
& + 49/69120*\ln(4)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} - 23/5184*\ln(4)^{\wedge 2}*\text{F}^{\wedge-3} \\
& * \sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} + 17/5184*\ln(4)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} \\
& * m83^{\wedge-1} + 5/432*\ln(4)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} - 5/1296*\ln(4)^{\wedge 2}*\text{F}^{\wedge-3} \\
& * \sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} + 1/576*\ln(4)^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} + \\
& 17/2592*\ln(4)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} - 5/216*\ln(4)^*\ln(6)^*F^{\wedge-3} \\
& * \sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} - 7/77760*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} \\
& * m83^{\wedge-1} - 223/25920*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} + \\
& 607/77760*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} - 11/648*\ln(4)^*\ln(8)^*F^{\wedge-3} \\
& * \sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} + 1/162*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4} \\
& * m83^{\wedge-1} + 1/108*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 7}*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} + 19/5184*\ln(6)^*F^{\wedge-3} \\
& * \sin x^*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} + 34/27*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-1} \\
& + 52/9*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-1} - 8/3*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2} \\
& * \text{L6r}^*m83^{\wedge-1} + 2/27*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-1} + \ln(6)^*F^{\wedge-3} \\
& * \sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-1} + 2/9*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L3r}^*m83^{\wedge-1} \\
& - 1/1728*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} - 272/27*\ln(6)^*F^{\wedge-3} \\
& * \sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-1} - 16*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-1} \\
& - 32/9*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-1} + 52/27*\ln(6)^*F^{\wedge-3} \\
& * \sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-1} + 4/3*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2} \\
& * \text{L4r}^*m83^{\wedge-1} + 2/9*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L3r}^*m83^{\wedge-1} - 89/15552*\ln(6)^*F^{\wedge-3} \\
& * \sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} + 272/81*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2} \\
& * \text{L8r}^*m83^{\wedge-1} + 176/27*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-1} + \\
& 32/9*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-1} - 4/27*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2} \\
& * \text{L5r}^*m83^{\wedge-1} - 4/3*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-1} - 2/9*\ln(6)^*F^{\wedge-3} \\
& * \sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L3r}^*m83^{\wedge-1} + 1/486*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} \\
& * m83^{\wedge-1} - 320/81*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-1} - 320/27*\ln(6)^*F^{\wedge-3} \\
& * \sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-1} - 1/1152*\ln(6)^{\wedge 2}*\text{F}^{\wedge-3}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} \\
& - 49/69120*\ln(6)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} - 23/5184*\ln(6)^{\wedge 2}*\text{F}^{\wedge-3} \\
& * \sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} - 17/5184*\ln(6)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} \\
& * m83^{\wedge-1} + 5/432*\ln(6)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} + 5/1296*\ln(6)^{\wedge 2}*\text{F}^{\wedge-3} \\
& * \sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} + 7/77760*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} \\
& * m83^{\wedge-1} - 223/25920*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} - 607/77760*\ln(6)^*\ln(8)^*F^{\wedge-3} \\
& * \sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} + 11/648*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} \\
& * m83^{\wedge-1} + 1/162*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} - 1/108*\ln(6)^*\ln(8)^*F^{\wedge-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/216*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} \\
& - 32/3*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1} - 448/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1} \\
& - 128/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1} + 200/81*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1} \\
& + 16/9*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1} + 1/243*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} \\
& + 1088/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1} + 256/9*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1} \\
& + 128/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-1} - 112/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-1} \\
& - 16/9*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-1} - 512/81*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-1} \\
& - 512/27*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-1} + 143/31104*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} \\
& - 23/1944*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 11/648*\ln(8)^2*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} \\
& - 1/1620/(mass(3))*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/810/(mass(3))*\ln(3)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} \\
& + 1/1536/(mass(4))*\ln(4)^2*F^{-3}*\cos x*\pi^{-4} - 13/184320/(mass(4))*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& - 7/11520/(mass(4))*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/2304/(mass(4))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& + 5/6144/(mass(5))*\ln(4)^2*F^{-3}*\cos x*\pi^{-4} - 13/184320/(mass(5))*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& - 41/34560/(mass(5))*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/2304/(mass(5))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& + 1/1536/(mass(6))*\ln(6)^2*F^{-3}*\cos x*\pi^{-4} + 13/184320/(mass(6))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& - 7/11520/(mass(6))*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/2304/(mass(6))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& + 5/6144/(mass(7))*\ln(6)^2*F^{-3}*\cos x*\pi^{-4} + 13/184320/(mass(7))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& - 41/34560/(mass(7))*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/2304/(mass(7))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& + 1/384/(mass(8))*\ln(8)^2*F^{-3}*\cos x*\pi^{-4} - 1/540/(mass(8))*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& + 1/810/(mass(8))*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}) \\
& + \text{mkp}2^4 * (- 229376/81*F^{-3}*\sin x^2*\cos x*L8r^2*m83^{-2} - 163840/9*F^{-3}*\sin x^2*\cos x*L7r*L8r*m83^{-2} \\
& - 262144/9*F^{-3}*\sin x^2*\cos x*L7r^2*m83^{-2} + 32768/27*F^{-3}*\sin x^2*\cos x*L6r*L8r*m83^{-2} \\
& + 32768/9*F^{-3}*\sin x^2*\cos x*L6r*L7r*m83^{-2} - 16384/81*F^{-3}*\sin x^2*\cos x*L5r*L8r*m83^{-2} \\
& - 16384/27*F^{-3}*\sin x^2*\cos x*L5r*L7r*m83^{-2} - 16384/27*F^{-3}*\sin x^2*\cos x*L4r*L8r*m83^{-2} \\
& - 16384/9*F^{-3}*\sin x^2*\cos x*L4r*L7r*m83^{-2} + 131072/27*F^{-3}*\sin x^4*\cos x*L8r^2*m83^{-2} \\
& + 262144/9*F^{-3}*\sin x^4*\cos x*L7r*L8r*m83^{-2} + 131072/3*F^{-3}*\sin x^4*\cos x*L7r^2*m83^{-2} \\
& + 1/243*C*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 1/432*C*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& - 1/432*C*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/243*C*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} \\
& + 320/243*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} + 448/81*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} \\
& - 64/81*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} - 32/81*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} \\
& + 640/81*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} + 2048/81*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} \\
& - 128/81*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-2} + 64/243*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-2} \\
& + 64/81*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-2} - 1024/81*\ln(3)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-2} \\
& - 1024/27*\ln(3)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-2} + 1/1944*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} \\
& - 1/1458*\ln(3)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^4 * \cos x * \pi^{-4} * m83^{-2} - 4/729 * \ln(3)^2 * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} \\
& + 2/243 * \ln(3)^2 * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-2} + 19/11664 * \ln(3) * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& - 7/3888 * \ln(3) * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 37/11664 * \ln(3) * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& - 1/108 * \ln(3) * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} - 47/2916 * \ln(3) * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& + 1/81 * \ln(3) * \ln(4) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} + 1/81 * \ln(3) * \ln(4) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& - 19/11664 * \ln(3) * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} - 7/3888 * \ln(3) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& - 37/11664 * \ln(3) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/108 * \ln(3) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} \\
& + 47/2916 * \ln(3) * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} + 1/81 * \ln(3) * \ln(6) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} \\
& - 1/81 * \ln(3) * \ln(6) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-2} - 7/2916 * \ln(3) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& - 2/243 * \ln(3) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} + 20/729 * \ln(3) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} \\
& - 4/243 * \ln(3) * \ln(8) * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-2} - 752/243 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} \\
& - 752/81 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} + 16/27 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L6r * m83^{-2} \\
& - 16/81 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L5r * m83^{-2} - 16/27 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L4r * m83^{-2} \\
& + 544/81 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-2} + 64/3 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-2} \\
& - 32/27 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-2} + 16/81 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-2} \\
& + 16/27 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-2} + 2912/243 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} + 3008/81 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} \\
& - 32/27 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L6r * m83^{-2} + 16/81 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L5r * m83^{-2} \\
& + 16/27 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L4r * m83^{-2} - 256/27 * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-2} \\
& - 256/9 * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-2} - 256/9 * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L6r * m83^{-2} \\
& - 256/27 * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L5r * m83^{-2} + 7/1944 * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& + 1/108 * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 25/1944 * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& - 1/108 * \ln(4)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} + 1/432 * \ln(4) * \ln(6) * F^{-3} * \cos x * \pi^{-4} * m83^{-2} \\
& - 11/324 * \ln(4) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 1/27 * \ln(4) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} \\
& + 25/11664 * \ln(4) * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} - 25/3888 * \ln(4) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& - 71/3888 * \ln(4) * \ln(8) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} + 7/324 * \ln(4) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} \\
& + 83/2916 * \ln(4) * \ln(8) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/81 * \ln(4) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} \\
& - 1/81 * \ln(4) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-2} + 752/243 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} \\
& - 16/27 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} - 16/27 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L6r * m83^{-2} \\
& + 16/81 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L5r * m83^{-2} + 16/27 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L4r * m83^{-2} \\
& + 544/81 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-2} + 64/3 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-2} \\
& - 32/27 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-2} + 16/81 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-2} \\
& + 16/27 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-2} - 2912/243 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} -
\end{aligned}$$

$$\begin{aligned}
& 3008/81*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 32/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} - 16/81*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} - 16/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} - 256/27*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} - 256/9*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} + 256/27*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 256/9*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 1/864*\ln(6)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 7/1944*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/108*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 25/1944*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/108*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 1/108*\ln(6)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 25/11664*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 25/3888*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 71/3888*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 7/324*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 83/2916*\ln(6)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/81*\ln(6)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 1/81*\ln(6)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} + 448/81*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} + 448/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} - 64/81*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} + 64/243*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} + 32/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} - 1664/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} - 5120/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} + 128/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-2} - 64/243*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-2} - 64/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-2} + 1024/81*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-2} + 1024/27*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-2} - 13/5832*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 25/1458*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 16/729*\ln(8)^2*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 2/243*\ln(8)^2*F^{-3}*\sin x^8*\cos x*\pi^{-4}*m83^{-2} - 169/29160/(mass(3))^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 4/729/(mass(3))*\ln(3)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 547/207360/(mass(4))*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 61/10368/(mass(4))*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 23/10368/(mass(4))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 281/103680/(mass(5))*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 61/10368/(mass(5))*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 23/10368/(mass(5))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 547/207360/(mass(6))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 61/10368/(mass(6))*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 23/10368/(mass(6))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 281/103680/(mass(7))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 61/10368/(mass(7))*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 23/10368/(mass(7))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 251/29160/(mass(8))*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 4/729/(mass(8))*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1}) \\
& + \text{mkp}2^{\sim 5} * (- 1/729/(mass(3))*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 1/864/(mass(4))*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/864/(mass(6))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/729/(mass(8))*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2}) \\
& + \text{mpp}2 * (+ 8/9*\text{Hb}(1,2,3,\text{plext},\text{plext})*F^{-3}*\sin x^2*\cos x - 4/9*\text{Hb}(1,2,3,\text{plext},\text{plext})*F^{-3}*\sin x^4*\cos x - 16/9*\text{Hb}(1,2,8,\text{plext},\text{plext})*F^{-3}*\sin x^2*\cos x + 4/9*\text{Hb}(1,2,8,\text{plext},\text{plext})*F^{-3}*\sin x^4*\cos x - 13/48*\text{Hb}(1,4,6,\text{qext},\text{qext})*F^{-3}*\cos x - 1/6*\text{Hb}(1,4,6,\text{qext},\text{qext})*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^5*\sqrt{3} + 9/32*H21b(8,7,7,qext.qext)*F^{-3}*\cos x - 11/32*H21b(8,7,7,qext.qext)*F^{-} \\
& 3^*\sin x*\sqrt{3} + 1/4*H21b(8,7,7,qext.qext)*F^{-3}*\sin x^3*\sqrt{3} - 4/3*HH1b(1,2,3,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x + 8/9*HH1b(1,2,3,plext.plext)*F^{-3}*\sin x^4*\cos x + 22/9*HH1b(1,2,8,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x - 8/9*HH1b(1,2,8,plext.plext)*F^{-3}*\sin x^4*\cos x + 1/6*HH1b(1,4,6,qext.qext)*F^{-} \\
& 3^*\cos x + 1/6*HH1b(1,4,6,qext.qext)*F^{-3}*\sin x*\sqrt{3} - 1/3*HH1b(1,5,6,plext.plext)*F^{-} \\
& 3^*\cos x + 2/9*HH1b(1,5,6,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 2*HH1b(1,5,6,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x - 2/9*HH1b(1,5,6,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + 1/6*HH1b(1,5,7,qext.qext)*F^{-} \\
& 3^*\cos x + 1/6*HH1b(1,5,7,qext.qext)*F^{-3}*\sin x*\sqrt{3} - 4/3*HH1b(2,1,3,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x + 8/9*HH1b(2,1,3,plext.plext)*F^{-3}*\sin x^4*\cos x + 22/9*HH1b(2,1,8,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x - 8/9*HH1b(2,1,8,plext.plext)*F^{-3}*\sin x^4*\cos x - 1/3*HH1b(2,4,7,plext.plext)*F^{-} \\
& 3^*\cos x + 2/9*HH1b(2,4,7,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 2*HH1b(2,4,7,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x - 2/9*HH1b(2,4,7,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + 1/6*HH1b(2,4,7,qext.qext)*F^{-} \\
& 3^*\cos x + 1/6*HH1b(2,4,7,qext.qext)*F^{-3}*\sin x*\sqrt{3} + 1/6*HH1b(2,5,6,qext.qext)*F^{-} \\
& 3^*\cos x + 1/6*HH1b(2,5,6,qext.qext)*F^{-3}*\sin x*\sqrt{3} + 1/12*HH1b(3,4,4,qext.qext)*F^{-} \\
& 3^*\cos x + 7/36*HH1b(3,4,4,qext.qext)*F^{-3}*\sin x*\sqrt{3} - 2/3*HH1b(3,4,4,qext.qext)*F^{-} \\
& 3^*\sin x^2*\cos x - 4/9*HH1b(3,4,4,qext.qext)*F^{-3}*\sin x^3*\sqrt{3} - 1/6*HH1b(3,4,5,plext.plext)*F^{-} \\
& 3^*\cos x + 2*HH1b(3,4,5,plext.plext)*F^{-3}*\sin x^2*\cos x + 4/9*HH1b(3,4,5,plext.plext)*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 20/9*HH1b(3,4,5,plext.plext)*F^{-3}*\sin x^4*\cos x - 4/9*HH1b(3,4,5,plext.plext)*F^{-} \\
& 3^*\sin x^5*\sqrt{3} + 1/12*HH1b(3,5,5,qext.qext)*F^{-3}*\cos x + 7/36*HH1b(3,5,5,qext.qext)*F^{-} \\
& 3^*\sin x*\sqrt{3} - 2/3*HH1b(3,5,5,qext.qext)*F^{-3}*\sin x^2*\cos x - 4/9*HH1b(3,5,5,qext.qext)*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 1/12*HH1b(3,6,6,qext.qext)*F^{-3}*\cos x - 7/36*HH1b(3,6,6,qext.qext)*F^{-} \\
& 3^*\sin x*\sqrt{3} - 2/3*HH1b(3,6,6,qext.qext)*F^{-3}*\sin x^2*\cos x + 4/9*HH1b(3,6,6,qext.qext)*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 1/6*HH1b(3,6,7,plext.plext)*F^{-3}*\cos x + 2*HH1b(3,6,7,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x - 4/9*HH1b(3,6,7,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 20/9*HH1b(3,6,7,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x + 4/9*HH1b(3,6,7,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} + 1/12*HH1b(3,7,7,qext.qext)*F^{-} \\
& 3^*\cos x - 7/36*HH1b(3,7,7,qext.qext)*F^{-3}*\sin x*\sqrt{3} - 2/3*HH1b(3,7,7,qext.qext)*F^{-} \\
& 3^*\sin x^2*\cos x + 4/9*HH1b(3,7,7,qext.qext)*F^{-3}*\sin x^3*\sqrt{3} + 1/3*HH1b(4,1,6,qext.qext)*F^{-} \\
& 3^*\sin x*\sqrt{3} + 4/9*HH1b(4,2,7,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 4/9*HH1b(4,2,7,plext.plext)*F^{-} \\
& 3^*\sin x^3*\sqrt{3} + 1/3*HH1b(4,2,7,qext.qext)*F^{-3}*\sin x*\sqrt{3} + HH1b(4,4,8,qext.qext)*F^{-} \\
& 3^*\cos x + 11/9*HH1b(4,4,8,qext.qext)*F^{-3}*\sin x*\sqrt{3} - 4/3*HH1b(4,4,8,qext.qext)*F^{-} \\
& 3^*\sin x^2*\cos x - 8/9*HH1b(4,4,8,qext.qext)*F^{-3}*\sin x^3*\sqrt{3} - HH1b(4,5,8,plext.plext)*F^{-} \\
& 3^*\cos x - 5/9*HH1b(4,5,8,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 13/9*HH1b(4,5,8,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x + HH1b(4,5,8,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 20/9*HH1b(4,5,8,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x - 4/9*HH1b(4,5,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} + 4/9*HH1b(5,1,6,plext.plext)*F^{-} \\
& 3^*\sin x*\sqrt{3} - 4/9*HH1b(5,1,6,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} + 1/3*HH1b(5,1,7,qext.qext)*F^{-} \\
& 3^*\sin x*\sqrt{3} + 1/3*HH1b(5,2,6,qext.qext)*F^{-3}*\sin x*\sqrt{3} - HH1b(5,4,8,plext.plext)*F^{-} \\
& 3^*\cos x - 5/9*HH1b(5,4,8,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 13/9*HH1b(5,4,8,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x + HH1b(5,4,8,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 20/9*HH1b(5,4,8,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x - 4/9*HH1b(5,4,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} + HH1b(5,5,8,qext.qext)*F^{-} \\
& 3^*\cos x + 11/9*HH1b(5,5,8,qext.qext)*F^{-3}*\sin x*\sqrt{3} - 4/3*HH1b(5,5,8,qext.qext)*F^{-} \\
& 3^*\sin x^2*\cos x - 8/9*HH1b(5,5,8,qext.qext)*F^{-3}*\sin x^3*\sqrt{3} + HH1b(6,6,8,qext.qext)*F^{-} \\
& 3^*\cos x - 11/9*HH1b(6,6,8,qext.qext)*F^{-3}*\sin x*\sqrt{3} - 4/3*HH1b(6,6,8,qext.qext)*F^{-} \\
& 3^*\sin x^2*\cos x + 8/9*HH1b(6,6,8,qext.qext)*F^{-3}*\sin x^3*\sqrt{3} - HH1b(6,7,8,plext.plext)*F^{-} \\
& 3^*\cos x + 5/9*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 13/9*HH1b(6,7,8,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x - HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 20/9*HH1b(6,7,8,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x + 4/9*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} - HH1b(7,6,8,plext.plext)*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\cos x + 5/9*\text{HH1b}(7,6,8,\text{p1ext.p1ext})*F^{-3}*\sin x*\sqrt{3} + 13/9*\text{HH1b}(7,6,8,\text{p1ext.p1ext})*F^{-3}*\sin x^2*\cos x - \text{HH1b}(7,6,8,\text{p1ext.p1ext})*F^{-3}*\sin x^3*\sqrt{3} - 20/9*\text{HH1b}(7,6,8,\text{p1ext.p1ext})*F^{-3}*\sin x^4*\cos x + 4/9*\text{HH1b}(7,6,8,\text{p1ext.p1ext})*F^{-3}*\sin x^5*\sqrt{3} + \text{HH1b}(7,7,8,\text{qext.qext})*F^{-3}*\cos x - 11/9*\text{HH1b}(7,7,8,\text{qext.qext})*F^{-3}*\sin x*\sqrt{3} - 4/3*\text{HH1b}(7,7,8,\text{qext.qext})*F^{-3}*\sin x^2*\cos x + 8/9*\text{HH1b}(7,7,8,\text{qext.qext})*F^{-3}*\sin x^3*\sqrt{3}) \\
& + \text{mpp2*mkp2} * (- 11/24576*F^{-3}*\cos x*\pi^{-4} + 1/12288*F^{-3}*\cos x*\pi^{-2} - 3/2*F^{-3}*\cos x*\pi^{-2}*L6r + 3/4*F^{-3}*\cos x*\pi^{-2}*L4r + 1/18*F^{-3}*\cos x*\pi^{-2}*L3r + 1/9*F^{-3}*\cos x*\pi^{-2}*L2r + 1/9*F^{-3}*\cos x*\pi^{-2}*L1r + 64/9*F^{-3}*\cos x*L5r^2 - 32/3*F^{-3}*\cos x*L4r*L5r - 32*F^{-3}*\cos x*L4r^2 - 128/3*F^{-3}*\cos x*CC18 - 64/3*F^{-3}*\cos x*CC17 - 32*F^{-3}*\cos x*CC16 + 16/3*F^{-3}*\cos x*CC15 - 64/3*F^{-3}*\cos x*CC14 + 89/34560*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 7/6480*F^{-3}*\sin x^2*\cos x*\pi^{-2} - 8/9*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r + 4/9*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r + 1/9*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r - 512/3*F^{-3}*\sin x^2*\cos x*CC18 - 512/9*F^{-3}*\sin x^2*\cos x*CC17 - 512/9*F^{-3}*\sin x^2*\cos x*CC14 - 125/7776*C*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 16/9*C*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r + 16/9*C*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r + 23/4320*C^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/720*C*\ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/160*C*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/240*C*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 17/34560*C*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 11/2880*C*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/4320*C*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 17/34560*C*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 11/2880*C*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/4320*C*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/96*C*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/240*C*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 1/1536*\ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 2/3*\ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r + 1/18*\ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r - 1/2*\ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r - 7/34560*\ln(1)*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/8640*\ln(1)*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 7/15360*\ln(1)*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 7/11520*\ln(1)*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/2880*\ln(1)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/1152*\ln(1)*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 7/15360*\ln(1)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 7/11520*\ln(1)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/2880*\ln(1)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/1152*\ln(1)*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} - 1/11520*\ln(1)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/8640*\ln(1)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 1/576*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 8/27*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r - 1/1728*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 4/27*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r - 203/414720*\ln(3)*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 17/69120*\ln(3)*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 31/69120*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/25920*\ln(3)*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 203/414720*\ln(3)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 17/69120*\ln(3)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 31/69120*\ln(3)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/25920*\ln(3)*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 3/4096*\ln(4)*F^{-3}*\cos x*\pi^{-4} - 3/4*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L6r + 1/16*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L5r + 9/16*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L4r + 1/9216*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 2/9*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r + 1/54*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r - 1/6*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r + 3/1024*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 4/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r - 1/3*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r + 7/36*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r + 1/4*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r + 1/3*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2^*L3r - 1/9216*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}} + 1/9*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}} \\
& 2^*L6r + 1/108*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L5r} - 1/12*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}} \\
& 2^*L4r + 5/13824*\ln(4)^2*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}} + 19/11520*\ln(4)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}} \\
& + 1/13824*\ln(4)^2*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}} + 1/2304*\ln(4)^2*F^{-3*\sin x^4*\cos x*\pi^{-4}} \\
& - 1/2304*\ln(4)^2*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}} - 1/1440*\ln(4)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}} \\
& - 1/1152*\ln(4)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4}} + 1/3072*\ln(4)*\ln(8)*F^{-3*\cos x*\pi^{-4}} \\
& + 163/414720*\ln(4)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}} + 43/69120*\ln(4)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}} \\
& - 103/207360*\ln(4)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}} + 1/25920*\ln(4)*\ln(8)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}} \\
& + 3/4096*\ln(6)*F^{-3*\cos x*\pi^{-4}} - 3/4*\ln(6)*F^{-3*\cos x*\pi^{-2}*L6r} + 1/16*\ln(6)*F^{-3*\cos x*\pi^{-2}*L5r} \\
& + 9/16*\ln(6)*F^{-3*\cos x*\pi^{-2}*L4r} - 1/9216*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}} - 2/9*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L6r} \\
& - 1/54*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L5r} + 1/6*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L4r} + 3/1024*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}} \\
& - 4/9*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r} - 1/3*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r} \\
& + 7/36*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r} + 1/4*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r} \\
& + 1/3*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L3r} + 1/9216*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}} - 1/9*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L6r} \\
& - 1/108*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L5r} + 1/12*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L4r} - 5/13824*\ln(6)^2*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}} \\
& + 19/11520*\ln(6)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}} - 1/13824*\ln(6)^2*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}} + 1/2304*\ln(6)^2*F^{-3*\sin x^4*\cos x*\pi^{-4}} \\
& + 1/2304*\ln(6)^2*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}} + 1/3072*\ln(6)*\ln(8)*F^{-3*\cos x*\pi^{-4}} - 163/414720*\ln(6)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}} \\
& + 43/69120*\ln(6)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}} + 103/207360*\ln(6)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}} \\
& - 1/25920*\ln(6)*\ln(8)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}} + 1/1536*\ln(8)*F^{-3*\cos x*\pi^{-4}} + 11/54*\ln(8)*F^{-3*\cos x*\pi^{-2}*L5r} \\
& + 2/9*\ln(8)*F^{-3*\cos x*\pi^{-2}*L4r} - 1/3*\ln(8)*F^{-3*\cos x*\pi^{-2}*L3r} - 2/3*\ln(8)*F^{-3*\cos x*\pi^{-2}*L2r} - 2/3*\ln(8)*F^{-3*\cos x*\pi^{-2}*L1r} \\
& - 1/1728*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}} + 8/27*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r} + 1/1728*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}} \\
& - 4/27*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L5r} - 32/27*\text{Hb}(1,2,3,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} - 16/9*\text{Hb}(1,2,3,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} \\
& + 4/9*\text{Hb}(1,2,3,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} + 8/9*\text{Hb}(1,2,3,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} + 32/27*\text{Hb}(1,2,8,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} \\
& + 16/9*\text{Hb}(1,2,8,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} - 4/9*\text{Hb}(1,2,8,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} - 8/9*\text{Hb}(1,2,8,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} \\
& + 2/9*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3*\sin x^2*\cos x} + 2/9*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3*\sin x^4*\cos x} - 13/9*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} \\
& + 1/4*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3*\cos x} + 13/18*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} + 2/9*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}} \\
& - 13/9*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} + 1/4*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3*\cos x} + 13/18*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} \\
& - 4/9*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} + 4/9*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} + 2/9*\text{Hb}(3,1,2,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} \\
& - 2/9*\text{Hb}(3,1,2,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} - 104/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} - 560/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} \\
& + 512/81*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3*\sin x^6*\cos x*m83^{-1}} - 1024/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3*\sin x^8*\cos x*m83^{-1}} - 64/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} \\
& + 64/27*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} - 1024/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3*\sin x^6*\cos x} +
\end{aligned}$$

$$\begin{aligned}
& 512/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sin^8*\cos x + 8/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin^2*\cos^2*m83^{-1} + 496/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin^4*\cos^2*m83^{-1} \\
& - 512/27*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin^6*\cos^2*m83^{-1} + 1024/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin^8*\cos^2*m83^{-1} + 16/27*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos x - \\
& 560/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3}*\sin^4*\cos x + 1024/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3}*\sin^6*\cos x - 512/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3}*\sin^8*\cos x - 17/324*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3}*m83^{-1} \\
& + 2/27*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin^4*\cos^2*m83^{-1} + 2/27*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin^6*\cos^2*m83^{-1} - 10/9*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3}*\sin^8*\sqrt{3}*m83^{-1} \\
& + 1/8*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\cos x + 5/18*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3} + 1/27*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin^4*\cos x - 5/6*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin^6*\sqrt{3} \\
& - 1/27*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin^8*\cos x + 5/9*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3} + 17/324*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3}*m83^{-1} + \\
& 2/27*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin^4*\cos^2*m83^{-1} - 65/81*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin^6*\sqrt{3}*m83^{-1} + 2/27*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin^8*\cos^2*m83^{-1} \\
& + 10/9*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3}*m83^{-1} + 1/8*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\cos x - 5/18*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3} + 1/27*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^4*\cos x \\
& + 5/6*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^6*\sqrt{3} - 1/27*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^8*\sqrt{3} - 8/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin^2*\cos^2*m83^{-1} - 496/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin^4*\cos^2*m83^{-1} \\
& + 512/27*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin^6*\cos^2*m83^{-1} - 1024/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin^8*\cos^2*m83^{-1} - 64/81*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos x + \\
& 64/9*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin^4*\cos x - 1024/81*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin^6*\cos x + 512/81*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin^8*\cos x + \\
& 5/72*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3}*m83^{-1} - 1/6*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\sin^4*\cos^2*m83^{-1} + 1/18*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\sin^6*\sqrt{3}*m83^{-1} \\
& + 1/36*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3} + 1/12*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin^4*\cos x - 1/36*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin^6*\sqrt{3} - 4/81*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3}*m83^{-1} \\
& + 32/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin^4*\cos^2*m83^{-1} - 20/81*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin^6*\sqrt{3}*m83^{-1} - 56/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin^8*\sqrt{3}*m83^{-1} + 8/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin^2*\cos x + 4/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^4*\sqrt{3} - 26/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^6*\cos x + 28/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^8*\sqrt{3} - 4/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3} + 5/72*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3}*m83^{-1} - 1/6*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin^4*\cos^2*m83^{-1} + 1/18*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin^6*\sqrt{3}*m83^{-1} + 1/36*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3} + 1/12*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin^4*\cos x - 1/36*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin^6*\sqrt{3} - 5/72*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3}*m83^{-1} - 1/6*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\sin^4*\cos^2*m83^{-1} - 1/18*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\sin^6*\sqrt{3}*m83^{-1} - 1/36*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3} + 1/12*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin^4*\cos x + 1/36*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin^6*\sqrt{3} + 4/81*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3}*m83^{-1} + 32/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin^4*\cos^2*m83^{-1} + 20/81*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin^6*\sqrt{3}*m83^{-1} - 56/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin^8*\cos^2*m83^{-1} - 8/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3}*m83^{-1} + \text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\cos x - 4/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin^2*\sqrt{3} - 26/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin^4*\cos x
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^2*\cos x + 28/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 4/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x^5*\sqrt{3} - 5/72*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 1/6*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/18*\text{Hb}(7,2,4,\text{plext.plext})*F^{-} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} - 1/36*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + \\
& 1/12*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/36*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 2/9*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - \\
& 4/9*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 1/9*\text{Hb}(8,1,2,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x^2*\cos x + 2/9*\text{Hb}(8,1,2,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 1/9*\text{Hb}(8,4,5,\text{plext.plext})*F^{-} \\
& 3^*\sin x^2*\cos x*m83^{-1} - 2/9*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} \\
& + 2/9*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 2/9*\text{Hb}(8,4,5,\text{plext.plext})*F^{-} \\
& 3^*\sin x^5*\sqrt{3}*m83^{-1} - 1/4*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\cos x - 1/9*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x*\sqrt{3} - 1/18*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 2/9*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 1/9*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 1/9*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x^5*\sqrt{3} + 1/9*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + \\
& 2/9*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 2/9*\text{Hb}(8,6,7,\text{plext.plext})*F^{-} \\
& 3^*\sin x^4*\cos x*m83^{-1} - 2/9*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} \\
& - 1/4*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\cos x + 1/9*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x*\sqrt{3} - 1/18*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 2/9*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 1/9*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 1/9*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x^5*\sqrt{3} - 152/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + \\
& 560/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - 512/81*\text{Hb}(8,8,8,\text{plext.plext})*F^{-} \\
& 3^*\sin x^6*\cos x*m83^{-1} + 1024/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x^8*\cos x*m83^{-} \\
& 1 - 56/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\cos x + 80/81*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x^2*\cos x - 208/81*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + \\
& 1024/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^6*\cos x - 512/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x^8*\cos x + 2/3*\text{H21b}(1,5,6,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - \\
& 1/2*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-3}*\cos x - 1/3*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x^2*\cos x + 2/3*\text{H21b}(2,4,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - \\
& 1/2*\text{H21b}(2,4,7,1,\text{plext.plext})*F^{-3}*\cos x - 1/3*\text{H21b}(2,4,7,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x^2*\cos x - 2/3*\text{H21b}(3,1,2,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + \\
& 4/3*\text{H21b}(3,1,2,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 1/3*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x^2*\cos x - 2/3*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 2/3*\text{H21b}(3,4,5,\text{plext.plext})*F^{-} \\
& 3^*\sin x*\sqrt{3}*m83^{-1} + 1/3*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-} \\
& 1 - 2/3*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - 2/3*\text{H21b}(3,4,5,\text{plext.plext})*F^{-} \\
& 3^*\sin x^5*\sqrt{3}*m83^{-1} - 1/4*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\cos x - 1/6*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x^2*\cos x - 1/3*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + 1/3*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x^4*\cos x + 1/3*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} - 2/3*\text{H21b}(3,6,7,\text{plext.plext})*F^{-} \\
& 3^*\sin x*\sqrt{3}*m83^{-1} + 1/3*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-} \\
& 1 - 2/3*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 2/3*\text{H21b}(3,6,7,\text{plext.plext})*F^{-} \\
& 3^*\sin x^5*\sqrt{3}*m83^{-1} - 1/4*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3}*\cos x - 1/6*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x^2*\cos x + 1/3*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + \\
& 1/3*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 1/3*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-} \\
& 3^*\sin x^5*\sqrt{3} - 1/3*\text{H21b}(4,2,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 1/3*\text{H21b}(4,2,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/3*\text{H21b}(4,2,7,\text{plext.plext})*F^{-} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} + 1/6*\text{H21b}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + \\
& 1/6*\text{H21b}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/6*\text{H21b}(4,2,7,1,\text{plext.plext})*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 1 - 16/27*\text{HH1b}(3,6,7,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} - 1/3*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\cos x + 2/27*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} + 2*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^2*\cos x - 10/27*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} - 8/9*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^4*\cos x + 8/27*\text{HH1b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3} - 4/9*\text{HH1b}(4,2,7,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 7/27*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 68/27*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin^2*\cos x*m83^{-1} - 20/27*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 16/9*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin^4*\cos x*m83^{-1} + 16/27*\text{HH1b}(4,5,8,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} - 5/3*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\cos x - 14/27*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} + 14/9*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos x + 22/27*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} - 8/9*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^4*\cos x - 8/27*\text{HH1b}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3} - 4/9*\text{HH1b}(5,1,6,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 7/27*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 68/27*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin^2*\cos x*m83^{-1} - 20/27*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 16/9*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin^4*\cos x*m83^{-1} + 16/27*\text{HH1b}(5,4,8,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} - 5/3*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\cos x - 14/27*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} + 14/9*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos x + 22/27*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} - 8/9*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin^4*\cos x - 8/27*\text{HH1b}(5,4,8,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3} - 7/27*\text{HH1b}(6,7,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 68/27*\text{HH1b}(6,7,8,\text{plext.plext})*F^{-3}*\sin^2*\cos x*m83^{-1} + 20/27*\text{HH1b}(6,7,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 16/9*\text{HH1b}(6,7,8,\text{plext.plext})*F^{-3}*\sin^4*\cos x*m83^{-1} - 1 - 16/27*\text{HH1b}(6,7,8,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} - 5/3*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\cos x + 14/27*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} + 14/9*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos x - 22/27*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} - 8/9*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin^4*\cos x + 8/27*\text{HH1b}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3} - 7/27*\text{HH1b}(7,6,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 68/27*\text{HH1b}(7,6,8,\text{plext.plext})*F^{-3}*\sin^2*\cos x*m83^{-1} + 20/27*\text{HH1b}(7,6,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 16/9*\text{HH1b}(7,6,8,\text{plext.plext})*F^{-3}*\sin^4*\cos x*m83^{-1} - 1 - 16/27*\text{HH1b}(7,6,8,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} - 5/3*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\cos x + 14/27*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} + 14/9*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos x - 22/27*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} - 8/9*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\sin^4*\cos x + 8/27*\text{HH1b}(7,6,8,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}) \\
& + \text{mpp2*mkp2}^2 * (+ 1253/20736*F^{-3}*\sin^2*\cos x*\pi^{-4}*m83^{-1} + 293/31104*F^{-3}*\sin^2*\cos x*\pi^{-2}*m83^{-1} + 80/9*F^{-3}*\sin^2*\cos x*\pi^{-2}*L8r*m83^{-1} + 32/9*F^{-3}*\sin^2*\cos x*\pi^{-2}*L7r*m83^{-1} + 80/9*F^{-3}*\sin^2*\cos x*\pi^{-2}*L6r*m83^{-1} - 104/27*F^{-3}*\sin^2*\cos x*\pi^{-2}*L5r*m83^{-1} - 40/9*F^{-3}*\sin^2*\cos x*\pi^{-2}*L4r*m83^{-1} - 1/9*F^{-3}*\sin^2*\cos x*\pi^{-2}*L3r*m83^{-1} - 2048/9*F^{-3}*\sin^2*\cos x*L5r*L8r*m83^{-1} - 2048/3*F^{-3}*\sin^2*\cos x*L5r*L7r*m83^{-1} - 2048/3*F^{-3}*\sin^2*\cos x*L4r*L8r*m83^{-1} - 2048*F^{-3}*\sin^2*\cos x*L4r*L7r*m83^{-1} - 2048/3*F^{-3}*\sin^2*\cos x*CC33*m83^{-1} - 1024/3*F^{-3}*\sin^2*\cos x*CC32*m83^{-1} - 1024/3*F^{-3}*\sin^2*\cos x*CC31*m83^{-1} - 1024/3*F^{-3}*\sin^2*\cos x*CC20*m83^{-1} - 512*F^{-3}*\sin^2*\cos x*CC19*m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1 + 512/3 * F^{-3} * \sin x^2 * \cos x * CC18 * m83^{-1} + 512/9 * F^{-3} * \sin x^2 * \cos x * CC17 * m83^{-1} \\
& - 1 + 512/9 * F^{-3} * \sin x^2 * \cos x * CC14 * m83^{-1} + 64/9 * C * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-1} \\
& + 64/3 * C * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-1} - 11/720 * C * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} \\
& - 41/34560 * C * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} - 1/144 * C * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} \\
& + 1/432 * C * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} + 41/34560 * C * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} \\
& - 1/144 * C * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 1/432 * C * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} \\
& + 13/2160 * C * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 1/432 * C * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} \\
& + 17/5184 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 128/27 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-1} \\
& - 128/9 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-1} - 1/324 * \ln(1) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 160/27 * \ln(1) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-1} \\
& + 160/9 * \ln(1) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-1} + 169/51840 * \ln(1) * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 7/1296 * \ln(1) * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} - 1/216 * \ln(1) * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} - 1/6480 * \ln(1) * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 7/3456 * \ln(1) * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 49/10368 * \ln(1) * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 5/864 * \ln(1) * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} - 5/864 * \ln(1) * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/6480 * \ln(1) * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 7/3456 * \ln(1) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 49/10368 * \ln(1) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 5/864 * \ln(1) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 5/864 * \ln(1) * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} - 29/51840 * \ln(1) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 1/432 * \ln(1) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 1/216 * \ln(1) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} + 1/648 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 320/27 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-1} + 64/3 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-1} + 32/9 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-1} - 32/27 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-1} - 4/3 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-1} + 512/27 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-1} + 512/9 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-1} - 512/27 * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L7r * m83^{-1} - 35/6912 * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 1/144 * \ln(3)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} - 7/1296 * \ln(3)^2 * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} + 1/81 * \ln(3)^2 * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-1} + 7/3456 * \ln(3) * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} - 1/2304 * \ln(3) * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 41/2592 * \ln(3) * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} - 1/108 * \ln(3) * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/48 * \ln(3) * \ln(4) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} + 11/1296 * \ln(3) * \ln(4) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-1} - 7/3456 * \ln(3) * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 293/103680 * \ln(3) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 1/2304 * \ln(3) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 41/2592 * \ln(3) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 1/108 * \ln(3) * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/48 * \ln(3) * \ln(6) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} - 11/1296 * \ln(3) * \ln(6) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-1} - 7/10368 * \ln(3) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 7/648 * \ln(3) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 23/648 * \ln(3) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} - 2/81 * \ln(3) * \ln(8) * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-1} + 1/512 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 224/27 * \ln(4) * F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} + 5/3456 * \ln(6)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& + 101/10368 * \ln(6)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} - 5/432 * \ln(6)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 5} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& - 23/51840 * \ln(6)^* \ln(8)^* F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} + 887/103680 * \ln(6)^* \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& + 89/6912 * \ln(6)^* \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} + 17/864 * \ln(6)^* \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& - 1/48 * \ln(6)^* \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 5} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} - 1/48 * \ln(6)^* \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& + 11/1296 * \ln(6)^* \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 7} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} + 5/1296 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& + 32/3 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-1} + 160/9 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-1} \\
& + 32/9 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L6r^* m83^{\wedge-1} - 8/3 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L5r^* m83^{\wedge-1} - 4/3 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L4r^* m83^{\wedge-1} \\
& - 512/27 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-1} - 512/9 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-1} \\
& + 512/27 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-1} + 512/9 * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-1} \\
& - 89/20736 * \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} + 23/1296 * \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& - 13/432 * \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} + 1/81 * \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 8} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& + 1/540 / (\text{mass}(3))^* \ln(3)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} + 11/24576 / (\text{mass}(4))^* \ln(4)^{\wedge 2} * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} \\
& + 59/184320 / (\text{mass}(4))^* \ln(4)^{\wedge 2} * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} + 7/7680 / (\text{mass}(4))^* \ln(4)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} \\
& - 7/23040 / (\text{mass}(4))^* \ln(4)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} + 337/552960 / (\text{mass}(5))^* \ln(4)^{\wedge 2} * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} \\
& + 41/23040 / (\text{mass}(5))^* \ln(4)^{\wedge 2} * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} + 41/23040 / (\text{mass}(5))^* \ln(4)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} \\
& - 41/69120 / (\text{mass}(5))^* \ln(4)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} + 11/24576 / (\text{mass}(6))^* \ln(6)^{\wedge 2} * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} \\
& + 7/7680 / (\text{mass}(6))^* \ln(6)^{\wedge 2} * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} + 7/23040 / (\text{mass}(6))^* \ln(6)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} \\
& + 7/24576 / (\text{mass}(6))^* \ln(6)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} + 7/24576 / (\text{mass}(7))^* \ln(6)^{\wedge 2} * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} \\
& - 337/552960 / (\text{mass}(7))^* \ln(6)^{\wedge 2} * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} + 41/23040 / (\text{mass}(7))^* \ln(6)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} \\
& + 41/69120 / (\text{mass}(7))^* \ln(6)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} - 1/512 / (\text{mass}(8))^* \ln(8)^{\wedge 2} * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} \\
& + 1/540 / (\text{mass}(8))^* \ln(8)^{\wedge 2} * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4}) \\
& + \text{mpp}2^* \text{mkp}2^{\wedge 3} * (+ 1015808/81 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* L8r^{\wedge 2} * m83^{\wedge-2} + 229376/3 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* L7r^* L8r^* m83^{\wedge-2} \\
& + 1048576/9 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* L7r^{\wedge 2} * m83^{\wedge-2} - 32768/27 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* L6r^* L8r^* m83^{\wedge-2} \\
& - 32768/9 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* L6r^* L7r^* m83^{\wedge-2} + 16384/81 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* L5r^* L8r^* m83^{\wedge-2} \\
& + 16384/27 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* L5r^* L7r^* m83^{\wedge-2} + 16384/27 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* L4r^* L8r^* m83^{\wedge-2} \\
& + 16384/9 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* L4r^* L7r^* m83^{\wedge-2} - 524288/27 * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* L8r^{\wedge 2} * m83^{\wedge-2} \\
& - 1048576/9 * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* L7r^{\wedge 2} * m83^{\wedge-2} - 524288/3 * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* L7r^{\wedge 2} * m83^{\wedge-2} \\
& - 1/243 * C * \ln(3)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - 1/864 * C * \ln(4)^* F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} \\
& + 1/864 * C * \ln(6)^* F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} + 1/243 * C * \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} \\
& + 256/81 * \ln(1)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-2} + 256/27 * \ln(1)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-2} \\
& + 1/648 * \ln(1)^* \ln(3)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - 1/243 * \ln(1)^* \ln(3)^* F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} \\
& + 1/324 * \ln(1)^* \ln(4)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} - 1/324 * \ln(1)^* \ln(4)^* F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} \\
& - 1/324 * \ln(1)^* \ln(6)^* F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-2} - 1/324 * \ln(1)^* \ln(6)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2} \\
& - 1/324 * \ln(1)^* \ln(8)^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-2})
\end{aligned}$$

$$\begin{aligned}
& 2 + 1/324*\ln(1)*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} - 11/1944*\ln(1)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 1/243*\ln(1)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} - 2720/243*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2}} - 2944/81*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2}} + 160/81*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2}} - 16/81*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2}} - 16/81*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2}} - 320/27*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2}} - 2816/81*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2}} - 64/81*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-2}} + 32/243*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-2}} + 32/81*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-2}} + 2560/81*\ln(3)*F^{-3*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-2}} + 2560/27*\ln(3)*F^{-3*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-2}} + 5/3888*\ln(3)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 61/5832*\ln(3)^2*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} - 5/729*\ln(3)^2*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} - 2/243*\ln(3)^2*F^{-3*\sin x^8*\cos x*\pi^{-4}*m83^{-2}} - 253/46656*\ln(3)*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} + 23/1944*\ln(3)*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 119/11664*\ln(3)*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} + 25/1944*\ln(3)*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} + 7/5832*\ln(3)*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} - 5/162*\ln(3)*\ln(4)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} - 1/162*\ln(3)*\ln(4)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2}} + 253/46656*\ln(3)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} + 23/1944*\ln(3)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} - 119/11664*\ln(3)*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} + 25/1944*\ln(3)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} - 7/5832*\ln(3)*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} - 5/162*\ln(3)*\ln(6)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} + 1/162*\ln(3)*\ln(6)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2}} + 65/5832*\ln(3)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} - 5/972*\ln(3)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} - 20/729*\ln(3)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} + 4/243*\ln(3)*\ln(8)*F^{-3*\sin x^8*\cos x*\pi^{-4}*m83^{-2}} + 2024/243*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} + 1928/81*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} + 20/27*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2}} - 4/81*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2}} - 10/27*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2}} - 736/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2}} - 2240/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2}} + 32/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2}} - 16/81*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2}} - 16/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2}} - 6560/243*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} - 6464/81*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} - 32/27*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2}} + 16/81*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2}} + 16/27*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2}} + 1024/27*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2}} + 1024/9*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2}} + 512/27*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} + 512/9*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} + 1/1728*\ln(4)^2*F^{-3*\cos x*\pi^{-4}*m83^{-2}} - 137/15552*\ln(4)^2*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} + 1/108*\ln(4)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 13/486*\ln(4)^2*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} - 1/54*\ln(4)^2*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} - 1/54*\ln(4)^2*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} - 1/864*\ln(4)*\ln(6)*F^{-3*\cos x*\pi^{-4}*m83^{-2}} + 13/324*\ln(4)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} - 1/27*\ln(4)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} - 67/11664*\ln(4)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} + 5/216*\ln(4)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^2 * \cos x * \pi^4 * m83^{-2} + 11/432 * \ln(4) * \ln(8) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * \\
& 4^* m83^{-2} - 121/1944 * \ln(4) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-2} - 151/5832 * \ln(4) * \ln(8) * F^{-3} * \\
& 3^* \sin x^5 * \sqrt{3} * \pi^4 * m83^{-2} + 5/162 * \ln(4) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^4 * \\
& 4^* m83^{-2} + 1/162 * \ln(4) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^4 * m83^{-2} - 2024/243 * \ln(6) * F^{-3} * \\
& 3^* \sin x * \sqrt{3} * \pi^2 * L8r * m83^{-2} - 1928/81 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * \\
& 2^* L7r * m83^{-2} - 20/27 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L6r * m83^{-2} + 4/81 * \ln(6) * F^{-3} * \\
& 3^* \sin x * \sqrt{3} * \pi^2 * L5r * m83^{-2} + 10/27 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L4r * m83^{-2} \\
& - 736/27 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L8r * m83^{-2} - 2240/27 * \ln(6) * F^{-3} * \\
& 3^* \sin x^2 * \cos x * \pi^2 * L7r * m83^{-2} + 32/27 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^2 * \\
& 2^* L6r * m83^{-2} - 16/81 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L5r * m83^{-2} - 16/27 * \ln(6) * F^{-3} * \\
& 3^* \sin x^2 * \cos x * \pi^2 * L4r * m83^{-2} + 6560/243 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^2 * \\
& 2^* L8r * m83^{-2} + 6464/81 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^2 * L7r * m83^{-2} \\
& + 32/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^2 * L6r * m83^{-2} - 16/81 * \ln(6) * F^{-3} * \\
& 3^* \sin x^3 * \sqrt{3} * \pi^2 * L5r * m83^{-2} - 16/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^2 * \\
& 2^* L4r * m83^{-2} + 1024/27 * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^2 * L8r * m83^{-2} + \\
& 1024/9 * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^2 * L7r * m83^{-2} - 512/27 * \ln(6) * F^{-3} * \\
& 3^* \sin x^5 * \sqrt{3} * \pi^2 * L8r * m83^{-2} - 512/9 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^2 * \\
& 2^* L7r * m83^{-2} + 1/1728 * \ln(6)^2 * F^{-3} * \cos x * \pi^4 * m83^{-2} + 137/15552 * \ln(6)^2 * F^{-3} * \\
& 3^* \sin x * \sqrt{3} * \pi^4 * m83^{-2} + 1/108 * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-2} - \\
& 13/486 * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * m83^{-2} - 1/54 * \ln(6)^2 * F^{-3} * \\
& 3^* \sin x^4 * \cos x * \pi^4 * m83^{-2} + 1/54 * \ln(6)^2 * F^{-3} * \sin x^5 * \sqrt{3} * \pi^4 * m83^{-2} \\
& + 67/11664 * \ln(6) * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-2} + 5/216 * \ln(6) * \ln(8) * F^{-3} * \\
& 3^* \sin x^2 * \cos x * \pi^4 * m83^{-2} - 11/432 * \ln(6) * \ln(8) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * \\
& 4^* m83^{-2} - 121/1944 * \ln(6) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-2} + 151/5832 * \ln(6) * \ln(8) * F^{-3} * \\
& 3^* \sin x^5 * \sqrt{3} * \pi^4 * m83^{-2} + 5/162 * \ln(6) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^4 * \\
& 4^* m83^{-2} - 1/162 * \ln(6) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^4 * m83^{-2} - 1696/81 * \ln(8) * F^{-3} * \\
& 3^* \sin x^2 * \cos x * \pi^2 * L8r * m83^{-2} - 1664/27 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^2 * \\
& 2^* L7r * m83^{-2} - 32/81 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L6r * m83^{-2} - 16/243 * \ln(8) * F^{-3} * \\
& 3^* \sin x^2 * \cos x * \pi^2 * L5r * m83^{-2} - 16/27 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^2 * \\
& 2^* L4r * m83^{-2} + 5056/81 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^2 * L8r * m83^{-2} + \\
& 15104/81 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^2 * L7r * m83^{-2} + 64/81 * \ln(8) * F^{-3} * \\
& 3^* \sin x^4 * \cos x * \pi^2 * L6r * m83^{-2} - 32/243 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^2 * \\
& 2^* L5r * m83^{-2} - 32/81 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^2 * L4r * m83^{-2} - 2560/81 * \ln(8) * F^{-3} * \\
& 3^* \sin x^6 * \cos x * \pi^2 * L8r * m83^{-2} - 2560/27 * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^2 * \\
& 2^* L7r * m83^{-2} + 95/11664 * \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-2} - \\
& 223/5832 * \ln(8)^2 * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-2} + 25/729 * \ln(8)^2 * F^{-3} * \\
& 3^* \sin x^6 * \cos x * \pi^4 * m83^{-2} - 2/243 * \ln(8)^2 * F^{-3} * \sin x^8 * \cos x * \pi^4 * m83^{-2} \\
& + 289/29160 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-1} - 2/729 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \\
& 3^* \sin x^4 * \cos x * \pi^4 * m83^{-1} + 2557/276480 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 * \\
& 4^* m83^{-1} + 61/10368 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-1} - \\
& 11/1152 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * m83^{-1} + 2597/276480 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \\
& 3^* \sin x * \sqrt{3} * \pi^4 * m83^{-1} + 61/10368 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 * \\
& 4^* m83^{-1} - 11/1152 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * m83^{-1} \\
& - 2557/276480 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-1} + \\
& 61/10368 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-1} + 11/1152 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \\
& 3^* \sin x^3 * \sqrt{3} * \pi^4 * m83^{-1} - 2597/276480 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 *
\end{aligned}$$

$$\begin{aligned}
& 4^*m83^{-1} + 61/10368/(mass(7))^*ln(6)^2*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-1} + \\
& 11/1152/(mass(7))^*ln(6)^2*F^{-3}*sinx^3*sqrt3*pi^{-4}*m83^{-1} + 131/29160/(mass(8))^*ln(8)^2*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-1} + 2/729/(mass(8))^*ln(8)^2*F^{-3}*sinx^4*cosx*pi^{-4}*m83^{-1}) \\
& + mpp2^2*mkp2^4 * (+ 1/1458/(mass(3))^*ln(3)^2*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-2} + 1/1728/(mass(4))^*ln(4)^2*F^{-3}*sinx*sqrt3*pi^{-4}*m83^{-2} - \\
& 1/1728/(mass(6))^*ln(6)^2*F^{-3}*sinx*sqrt3*pi^{-4}*m83^{-2} - 1/1458/(mass(8))^*ln(8)^2*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-2}) \\
& + mpp2^2 * (+ 91/98304*F^{-3}*cosx*pi^{-4} + 5/24576*F^{-3}*cosx*pi^{-2} - \\
& 5/72*F^{-3}*cosx*pi^{-2}*L3r - 29/144*F^{-3}*cosx*pi^{-2}*L2r - 1/72*F^{-3}*cosx*pi^{-2}*L1r - 8/9*F^{-3}*cosx*L5r^2 + 16/3*F^{-3}*cosx*L4r*L5r - \\
& 8*F^{-3}*cosx*L4r^2 + 64/3*F^{-3}*cosx*CC18 + 8*F^{-3}*cosx*CC17 + 24*F^{-3}*cosx*CC16 - 8/3*F^{-3}*cosx*CC15 + 8*F^{-3}*cosx*CC14 - \\
& 89/69120*F^{-3}*sinx^2*cosx*pi^{-4} - 7/12960*F^{-3}*sinx^2*cosx*pi^{-2} + 4/9*F^{-3}*sinx^2*cosx*pi^{-2}*L8r - 2/9*F^{-3}*sinx^2*cosx*pi^{-2}*L5r - \\
& 1/18*F^{-3}*sinx^2*cosx*pi^{-2}*L3r + 256/3*F^{-3}*sinx^2*cosx*CC18 + 256/9*F^{-3}*sinx^2*cosx*CC17 + 256/9*F^{-3}*sinx^2*cosx*CC14 + \\
& 125/15552*C*F^{-3}*sinx^2*cosx*pi^{-4} + 8/9*C*F^{-3}*sinx^2*cosx*pi^{-2}*L8r - 8/9*C*F^{-3}*sinx^2*cosx*pi^{-2}*L5r - 23/8640*C^2*F^{-3}*sinx^2*cosx*pi^{-4} + \\
& 31/11520*C*ln(1)*F^{-3}*sinx^2*cosx*pi^{-4} + 1/160*C*ln(3)*F^{-3}*sinx^2*cosx*pi^{-4} - 1/240*C*ln(3)*F^{-3}*sinx^4*cosx*pi^{-4} + 31/69120*C*ln(4)*F^{-3}*sinx*sqrt3*pi^{-4} + 7/7680*C*ln(4)*F^{-3}*sinx^2*cosx*pi^{-4} - 31/69120*C*ln(4)*F^{-3}*sinx^3*sqrt3*pi^{-4} - 31/69120*C*ln(6)*F^{-3}*sinx*sqrt3*pi^{-4} + 7/7680*C*ln(6)*F^{-3}*sinx^2*cosx*pi^{-4} + 31/69120*C*ln(6)*F^{-3}*sinx^3*sqrt3*pi^{-4} + 1/480*C*ln(8)*F^{-3}*sinx^2*cosx*pi^{-4} + 1/240*C*ln(8)*F^{-3}*sinx^4*cosx*pi^{-4} - 1/12*ln(1)*F^{-3}*cosx*pi^{-2}*L5r - 1/2*ln(1)*F^{-3}*cosx*pi^{-2}*L4r + 1/4*ln(1)*F^{-3}*cosx*pi^{-2}*L3r + 1/4*ln(1)*F^{-3}*cosx*pi^{-2}*L2r + ln(1)*F^{-3}*cosx*pi^{-2}*L1r - 7/3072*ln(1)*F^{-3}*sinx^2*cosx*pi^{-4} + 1/3*ln(1)*F^{-3}*sinx^2*cosx*pi^{-2}*L8r + 1/3*ln(1)*F^{-3}*sinx^2*cosx*pi^{-2}*L6r - 5/36*ln(1)*F^{-3}*sinx^2*cosx*pi^{-2}*L5r - 1/4*ln(1)*F^{-3}*sinx^2*cosx*pi^{-2}*L4r - 1/4*ln(1)*F^{-3}*sinx^2*cosx*pi^{-2}*L3r - 7/7680*ln(1)^2*F^{-3}*sinx^2*cosx*pi^{-4} + 1/1536*ln(1)^2*F^{-3}*sinx^4*cosx*pi^{-4} - 13/69120*ln(1)*ln(3)*F^{-3}*sinx^2*cosx*pi^{-4} + 1/17280*ln(1)*ln(3)*F^{-3}*sinx^4*cosx*pi^{-4} + 13/46080*ln(1)*ln(4)*F^{-3}*sinx*sqrt3*pi^{-4} + 1/11520*ln(1)*ln(4)*F^{-3}*sinx^2*cosx*pi^{-4} - 1/15360*ln(1)*ln(4)*F^{-3}*sinx^3*sqrt3*pi^{-4} - 1/1536*ln(1)*ln(4)*F^{-3}*sinx^4*cosx*pi^{-4} - 1/4608*ln(1)*ln(4)*F^{-3}*sinx^5*sqrt3*pi^{-4} - 13/46080*ln(1)*ln(6)*F^{-3}*sinx*sqrt3*pi^{-4} + 1/11520*ln(1)*ln(6)*F^{-3}*sinx^2*cosx*pi^{-4} + 1/15360*ln(1)*ln(6)*F^{-3}*sinx^3*sqrt3*pi^{-4} - 1/1536*ln(1)*ln(6)*F^{-3}*sinx^4*cosx*pi^{-4} + 1/4608*ln(1)*ln(6)*F^{-3}*sinx^5*sqrt3*pi^{-4} - 1/7680*ln(1)*ln(8)*F^{-3}*sinx^2*cosx*pi^{-4} - 1/17280*ln(1)*ln(8)*F^{-3}*sinx^4*cosx*pi^{-4} - 1/24*ln(3)*F^{-3}*cosx*pi^{-2}*L5r - 1/4*ln(3)*F^{-3}*cosx*pi^{-2}*L4r + 1/8*ln(3)*F^{-3}*cosx*pi^{-2}*L3r + 1/8*ln(3)*F^{-3}*cosx*pi^{-2}*L2r + 1/2*ln(3)*F^{-3}*cosx*pi^{-2}*L1r - 4/27*ln(3)*F^{-3}*sinx^2*cosx*pi^{-2}*L5r - 1/1728*ln(3)*F^{-3}*sinx^4*cosx*pi^{-4} + 4/27*ln(3)*F^{-3}*sinx^4*cosx*pi^{-2}*L5r - 11/414720*ln(3)*ln(4)*F^{-3}*sinx*sqrt3*pi^{-4} -
\end{aligned}$$

$$\begin{aligned}
& 59/138240*\ln(3)*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/27648*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/34560*\ln(3)*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-4} - \\
& 1/103680*\ln(3)*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 11/414720*\ln(3)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 59/138240*\ln(3)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - \\
& 1/27648*\ln(3)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/34560*\ln(3)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 1/103680*\ln(3)*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} - \\
& 7/18432*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 1/18*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r + 1/18*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r - 5/216*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r - 1/24*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r - 1/24*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r - 1/6144*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/18*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r - 1/6*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r - 1/24*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r + 1/8*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r - 1/24*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r + 7/18432*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/18*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r - 1/18*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r + 5/216*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r + 1/24*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r + 1/24*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L3r - 77/276480*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 7/46080*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 47/276480*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/9216*\ln(4)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 1/9216*\ln(4)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 1/2880*\ln(4)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/2304*\ln(4)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 11/414720*\ln(4)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 13/27648*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 7/414720*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/34560*\ln(4)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 1/103680*\ln(4)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 7/18432*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 1/18*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r - 1/18*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r + 5/216*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r + 1/24*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r + 1/24*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r - 1/6144*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/18*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r - 1/6*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r - 1/24*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r + 1/8*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r - 1/24*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r - 7/18432*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/18*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r + 1/18*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r - 5/216*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r - 1/24*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r - 1/24*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L3r + 77/276480*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 7/46080*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 47/276480*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 1/9216*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 1/9216*\ln(6)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 11/414720*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 13/27648*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 7/414720*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/34560*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 1/103680*\ln(6)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} - 7/216*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L5r - 1/36*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L4r + 1/24*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L3r + 1/12*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L2r + 1/12*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L1r + 1/864*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 4/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r + 1/1728*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 4/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r + 8/27*Hb(1,2,3,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} + 4/3*Hb(1,2,3,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-1} + 2/9*Hb(1,2,3,1,plext.plext)*F^{-3}*\sin x^2*\cos x - 2/3*Hb(1,2,3,1,plext.plext)*F^{-3}*\sin x^4*\cos x + 28/27*Hb(1,2,8,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} -
\end{aligned}$$

$$\begin{aligned}
& 4/3^*Hb(1,2,8,plext.plext)^*F^{-3}*\sin^4*\cos^*m83^{-1} + 1/18^*Hb(1,2,8,1,plext.plext)^*F^{-3}*\cos - 8/9^*Hb(1,2,8,1,plext.plext)^*F^{-3}*\sin^2*\cos + 2/3^*Hb(1,2,8,1,plext.plext)^*F^{-3}*\sin^4*\cos + 1/3^*Hb(1,5,6,plext.plext)^*F^{-3}*\sin*\sqrt{3}^*m83^{-1} + \\
& 31/18^*Hb(1,5,6,plext.plext)^*F^{-3}*\sin^2*\cos^*m83^{-1} - 2/9^*Hb(1,5,6,plext.plext)^*F^{-3}*\sin^3*\sqrt{3}^*m83^{-1} + 1/48^*Hb(1,5,6,1,plext.plext)^*F^{-3}*\cos - 1/9^*Hb(1,5,6,1,plext.plext)^*F^{-3}*\sin*\sqrt{3} - 31/36^*Hb(1,5,6,1,plext.plext)^*F^{-3}*\sin^2*\cos + 1/9^*Hb(1,5,6,1,plext.plext)^*F^{-3}*\sin^3*\sqrt{3} + 1/3^*Hb(2,4,7,plext.plext)^*F^{-3}*\sin*\sqrt{3}^*m83^{-1} + \\
& 31/18^*Hb(2,4,7,plext.plext)^*F^{-3}*\sin^2*\cos^*m83^{-1} - 2/9^*Hb(2,4,7,plext.plext)^*F^{-3}*\sin^3*\sqrt{3}^*m83^{-1} + 1/48^*Hb(2,4,7,1,plext.plext)^*F^{-3}*\cos - 1/9^*Hb(2,4,7,1,plext.plext)^*F^{-3}*\sin*\sqrt{3} - 31/36^*Hb(2,4,7,1,plext.plext)^*F^{-3}*\sin^2*\cos + 1/9^*Hb(2,4,7,1,plext.plext)^*F^{-3}*\sin^3*\sqrt{3} - 1/9^*Hb(3,1,2,plext.plext)^*F^{-3}*\sin^2*\cos^*m83^{-1} + \\
& 1/9^*Hb(3,1,2,plext.plext)^*F^{-3}*\sin^4*\cos^*m83^{-1} + 1/18^*Hb(3,1,2,1,plext.plext)^*F^{-3}*\sin^2*\cos - 1/18^*Hb(3,1,2,1,plext.plext)^*F^{-3}*\sin^4*\cos + 88/243^*Hb(3,3,3,plext.plext)^*F^{-3}*\sin^2*\cos^*m83^{-1} + 208/243^*Hb(3,3,3,plext.plext)^*F^{-3}*\sin^4*\cos^*m83^{-1} - 256/81^*Hb(3,3,3,plext.plext)^*F^{-3}*\sin^6*\cos^*m83^{-1} + 512/243^*Hb(3,3,3,plext.plext)^*F^{-3}*\sin^8*\cos^*m83^{-1} + 32/243^*Hb(3,3,3,1,plext.plext)^*F^{-3}*\sin^2*\cos - 32/27^*Hb(3,3,3,1,plext.plext)^*F^{-3}*\sin^4*\cos + 512/243^*Hb(3,3,3,1,plext.plext)^*F^{-3}*\sin^6*\cos - 256/243^*Hb(3,3,3,1,plext.plext)^*F^{-3}*\sin^8*\cos + 8/81^*Hb(3,3,8,plext.plext)^*F^{-3}*\sin^2*\cos^*m83^{-1} - 272/81^*Hb(3,3,8,plext.plext)^*F^{-3}*\sin^4*\cos^*m83^{-1} + 256/27^*Hb(3,3,8,plext.plext)^*F^{-3}*\sin^6*\cos^*m83^{-1} - 512/81^*Hb(3,3,8,plext.plext)^*F^{-3}*\sin^8*\cos^*m83^{-1} + 1/36^*Hb(3,3,8,1,plext.plext)^*F^{-3}*\cos - 16/27^*Hb(3,3,8,1,plext.plext)^*F^{-3}*\sin^2*\cos + 304/81^*Hb(3,3,8,1,plext.plext)^*F^{-3}*\sin^4*\cos - 512/81^*Hb(3,3,8,1,plext.plext)^*F^{-3}*\sin^6*\cos + 256/81^*Hb(3,3,8,1,plext.plext)^*F^{-3}*\sin^8*\cos + 241/1296^*Hb(3,4,5,plext.plext)^*F^{-3}*\sin*\sqrt{3}^*m83^{-1} + 7/18^*Hb(3,4,5,plext.plext)^*F^{-3}*\sin^2*\cos^*m83^{-1} - 151/324^*Hb(3,4,5,plext.plext)^*F^{-3}*\sin^3*\sqrt{3}^*m83^{-1} - 47/54^*Hb(3,4,5,plext.plext)^*F^{-3}*\sin^4*\cos^*m83^{-1} + 17/54^*Hb(3,4,5,plext.plext)^*F^{-3}*\sin^5*\sqrt{3}^*m83^{-1} + 1/96^*Hb(3,4,5,1,plext.plext)^*F^{-3}*\cos - 17/216^*Hb(3,4,5,1,plext.plext)^*F^{-3}*\sin*\sqrt{3} - 47/108^*Hb(3,4,5,1,plext.plext)^*F^{-3}*\sin^2*\cos + 17/72^*Hb(3,4,5,1,plext.plext)^*F^{-3}*\sin^3*\sqrt{3} + 47/108^*Hb(3,4,5,1,plext.plext)^*F^{-3}*\sin^4*\cos - 17/108^*Hb(3,4,5,1,plext.plext)^*F^{-3}*\sin^5*\sqrt{3} - 241/1296^*Hb(3,6,7,plext.plext)^*F^{-3}*\sin*\sqrt{3}^*m83^{-1} + 7/18^*Hb(3,6,7,plext.plext)^*F^{-3}*\sin^2*\cos^*m83^{-1} + 151/324^*Hb(3,6,7,plext.plext)^*F^{-3}*\sin^3*\sqrt{3}^*m83^{-1} - 47/54^*Hb(3,6,7,plext.plext)^*F^{-3}*\sin^4*\cos^*m83^{-1} - 17/54^*Hb(3,6,7,plext.plext)^*F^{-3}*\sin^5*\sqrt{3}^*m83^{-1} + 1/96^*Hb(3,6,7,1,plext.plext)^*F^{-3}*\cos + 17/216^*Hb(3,6,7,1,plext.plext)^*F^{-3}*\sin*\sqrt{3} - 47/108^*Hb(3,6,7,1,plext.plext)^*F^{-3}*\sin^2*\cos - 17/72^*Hb(3,6,7,1,plext.plext)^*F^{-3}*\sin^3*\sqrt{3} + 47/108^*Hb(3,6,7,1,plext.plext)^*F^{-3}*\sin^4*\cos + 17/108^*Hb(3,6,7,1,plext.plext)^*F^{-3}*\sin^5*\sqrt{3} - 8/81^*Hb(3,8,8,plext.plext)^*F^{-3}*\sin^2*\cos^*m83^{-1} + 272/81^*Hb(3,8,8,plext.plext)^*F^{-3}*\sin^4*\cos^*m83^{-1} - 256/27^*Hb(3,8,8,plext.plext)^*F^{-3}*\sin^6*\cos^*m83^{-1} + 512/81^*Hb(3,8,8,plext.plext)^*F^{-3}*\sin^8*\cos^*m83^{-1} + 32/81^*Hb(3,8,8,1,plext.plext)^*F^{-3}*\sin^2*\cos - 32/9^*Hb(3,8,8,1,plext.plext)^*F^{-3}*\sin^4*\cos + 512/81^*Hb(3,8,8,1,plext.plext)^*F^{-3}*\sin^6*\cos - 256/81^*Hb(3,8,8,1,plext.plext)^*F^{-3}*\sin^8*\cos + 1/36^*Hb(4,2,7,plext.plext)^*F^{-3}*\sin*\sqrt{3}^*m83^{-1} - 1/12^*Hb(4,2,7,plext.plext)^*F^{-3}*\sin^2*\cos^*m83^{-1} - 1/36^*Hb(4,2,7,plext.plext)^*F^{-3}*\sin^3*\sqrt{3}^*m83^{-1} - 1/72^*Hb(4,2,7,1,plext.plext)^*F^{-3}*\sin*\sqrt{3} + 1/24^*Hb(4,2,7,1,plext.plext)^*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^2*\cos x + 1/72*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + 149/324*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x*\sqrt{3}*m83^{-1} - 14/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& + 25/81*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 14/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^4*\cos x*m83^{-1} - 14/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} \\
& - 1/8*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\cos x + 5/54*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x*\sqrt{3} + 4/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 19/54*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3} + 7/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 7/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^5*\sqrt{3} + 1/36*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 1/12*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/36*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} - 1/72*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + \\
& 1/24*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/72*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3} - 1/36*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 1/12*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/36*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} + 1/72*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + \\
& 1/24*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/72*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3} - 149/324*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 14/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 25/81*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} - 14/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - \\
& 1 + 14/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - 1/8*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3} \\
& 3^*\cos x - 5/54*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 4/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2*\cos x + 19/54*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + \\
& 7/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 7/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^5*\sqrt{3} - 1/36*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 1/12*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/36*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} + 1/72*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + \\
& 1/24*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/72*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3} - 2/9*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - \\
& 1/9*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 1/9*\text{Hb}(8,1,2,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2*\cos x + 1/18*\text{Hb}(8,1,2,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 7/48*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3} \\
& 3^*\sin x*\sqrt{3}*m83^{-1} + 1/9*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& + 1/36*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/18*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^4*\cos x*m83^{-1} + 1/18*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} \\
& - 1 + 1/32*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\cos x + 1/72*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x*\sqrt{3} - 1/18*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/72*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3} - 1/36*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 1/36*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^5*\sqrt{3} + 7/48*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + \\
& 1/9*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/36*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} + 1/18*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& - 1/18*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 1/32*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3} \\
& 3^*\cos x - 1/72*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/18*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2*\cos x - 1/72*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/36*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^4*\cos x + 1/36*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} + 40/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2*\cos x*m83^{-1} - 208/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& - 1 + 256/81*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x^6*\cos x*m83^{-1} - 512/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^8*\cos x*m83^{-1} + 49/972*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\cos x - \\
& 16/81*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 80/81*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^4*\cos x - 512/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^6*\cos x + \\
& 256/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^8*\cos x + 1/6*\text{H21b}(1,5,6,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2*\cos x*m83^{-1} + 1/16*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-3}*\cos x - \\
& 1/12*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/6*\text{H21b}(2,4,7,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2*\cos x*m83^{-1} + 1/16*\text{H21b}(2,4,7,1,\text{plext.plext})*F^{-3}*\cos x - \\
& 1/12*\text{H21b}(2,4,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/3*\text{H21b}(3,1,2,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2*\cos x*m83^{-1} + 1/3*\text{H21b}(3,1,2,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& 1 - 1/6*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/6*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^4*\cos x - 7/48*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 1/6*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/4*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} - 1/6*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& 1 - 1/6*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 1/32*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3} \\
& 3^*\cos x - 1/8*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/12*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2*\cos x + 1/24*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + \\
& 1/12*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 1/12*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^5*\sqrt{3} + 7/48*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 1/6*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/4*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} - 1/6*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& 1 + 1/6*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 1/32*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3} \\
& 3^*\cos x + 1/8*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/12*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2*\cos x - 1/24*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + \\
& 1/12*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 1/12*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^5*\sqrt{3} + 7/24*\text{H21b}(4,2,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 1/12*\text{H21b}(4,2,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/12*\text{H21b}(4,2,7,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} + 1/24*\text{H21b}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + \\
& 1/24*\text{H21b}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/24*\text{H21b}(4,2,7,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3} + 7/24*\text{H21b}(5,1,6,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 1/12*\text{H21b}(5,1,6,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/12*\text{H21b}(5,1,6,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} + 1/24*\text{H21b}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + \\
& 1/24*\text{H21b}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/24*\text{H21b}(5,1,6,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3} - 7/24*\text{H21b}(6,1,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 1/12*\text{H21b}(6,1,5,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/12*\text{H21b}(6,1,5,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} - 1/24*\text{H21b}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + \\
& 1/24*\text{H21b}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/24*\text{H21b}(6,1,5,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3} - 7/24*\text{H21b}(7,2,4,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 1/12*\text{H21b}(7,2,4,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/12*\text{H21b}(7,2,4,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} - 1/24*\text{H21b}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + \\
& 1/24*\text{H21b}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/24*\text{H21b}(7,2,4,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^3*\sqrt{3} - 2/3*\text{H21b}(8,1,2,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - \\
& 1/3*\text{H21b}(8,1,2,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 1/3*\text{H21b}(8,1,2,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^2*\cos x + 1/6*\text{H21b}(8,1,2,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 7/16*\text{H21b}(8,4,5,\text{plext.plext})*F^{-3} \\
& 3^*\sin x*\sqrt{3}*m83^{-1} + 1/3*\text{H21b}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& 1 + 1/12*\text{H21b}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/6*\text{H21b}(8,4,5,\text{plext.plext})*F^{-3} \\
& 3^*\sin x^4*\cos x*m83^{-1} + 1/6*\text{H21b}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} \\
& 1 + 3/32*\text{H21b}(8,4,5,1,\text{plext.plext})*F^{-3}*\cos x + 1/24*\text{H21b}(8,4,5,1,\text{plext.plext})*F^{-3} \\
& 3^*\sin x*\sqrt{3} - 1/6*\text{H21b}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/24*\text{H21b}(8,4,5,1,\text{plext.plext})*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^3 \sin^3 \sqrt{3} - 1/12^* H21b(8,4,5,1, \text{plext.plext}) * F^{-3} \sin^4 \cos x - 1/12^* H21b(8,4,5,1, \text{plext.plext}) * F^{-3} \sin^5 \sqrt{3} + 7/16^* H21b(8,6,7, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} m83^{-1} + \\
& 1/3^* H21b(8,6,7, \text{plext.plext}) * F^{-3} \sin^2 \cos x m83^{-1} - 1/12^* H21b(8,6,7, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} m83^{-1} + 1/6^* H21b(8,6,7, \text{plext.plext}) * F^{-3} \sin^4 \cos x m83^{-1} - \\
& 1 - 1/6^* H21b(8,6,7, \text{plext.plext}) * F^{-3} \sin^5 \sqrt{3} m83^{-1} + 3/32^* H21b(8,6,7,1, \text{plext.plext}) * F^{-3} \cos x - 1/24^* H21b(8,6,7,1, \text{plext.plext}) * F^{-3} \sin \sqrt{3} - 1/6^* H21b(8,6,7,1, \text{plext.plext}) * F^{-3} \sin^2 \cos x - 1/24^* H21b(8,6,7,1, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} - 1/12^* H21b(8,6,7,1, \text{plext.plext}) * F^{-3} \sin^4 \cos x + 1/12^* H21b(8,6,7,1, \text{plext.plext}) * F^{-3} \sin^5 \sqrt{3} - \\
& 10/27^* HH1b(1,2,3, \text{plext.plext}) * F^{-3} \sin^2 \cos x m83^{-1} - 8/9^* HH1b(1,2,3, \text{plext.plext}) * F^{-3} \sin^4 \cos x m83^{-1} + 4/9^* HH1b(1,2,3,1, \text{plext.plext}) * F^{-3} \sin^4 \cos x - \\
& 2/27^* HH1b(1,2,8, \text{plext.plext}) * F^{-3} \sin^2 \cos x m83^{-1} + 8/9^* HH1b(1,2,8, \text{plext.plext}) * F^{-3} \sin^4 \cos x m83^{-1} + 2/9^* HH1b(1,2,8,1, \text{plext.plext}) * F^{-3} \sin^2 \cos x - \\
& 4/9^* HH1b(1,2,8,1, \text{plext.plext}) * F^{-3} \sin^4 \cos x - 1/3^* HH1b(1,5,6, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} m83^{-1} - 10/9^* HH1b(1,5,6, \text{plext.plext}) * F^{-3} \sin^2 \cos x m83^{-1} - \\
& 1 + 2/9^* HH1b(1,5,6, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} m83^{-1} + 1/6^* HH1b(1,5,6,1, \text{plext.plext}) * F^{-3} \cos x + 1/9^* HH1b(1,5,6,1, \text{plext.plext}) * F^{-3} \sin \sqrt{3} + 5/9^* HH1b(1,5,6,1, \text{plext.plext}) * F^{-3} \sin^2 \cos x - 1/9^* HH1b(1,5,6,1, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} - 10/27^* HH1b(2,1,3, \text{plext.plext}) * F^{-3} \sin^2 \cos x m83^{-1} - 8/9^* HH1b(2,1,3, \text{plext.plext}) * F^{-3} \sin^4 \cos x m83^{-1} - \\
& 1 + 4/9^* HH1b(2,1,3,1, \text{plext.plext}) * F^{-3} \sin^4 \cos x - 2/27^* HH1b(2,1,8, \text{plext.plext}) * F^{-3} \sin^2 \cos x m83^{-1} + 8/9^* HH1b(2,1,8, \text{plext.plext}) * F^{-3} \sin^4 \cos x m83^{-1} - \\
& 1 + 2/9^* HH1b(2,1,8,1, \text{plext.plext}) * F^{-3} \sin^2 \cos x - 4/9^* HH1b(2,1,8,1, \text{plext.plext}) * F^{-3} \sin^4 \cos x - 1/3^* HH1b(2,4,7, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} m83^{-1} - \\
& 10/9^* HH1b(2,4,7, \text{plext.plext}) * F^{-3} \sin^2 \cos x m83^{-1} + 2/9^* HH1b(2,4,7, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} m83^{-1} + 1/6^* HH1b(2,4,7,1, \text{plext.plext}) * F^{-3} \cos x + \\
& 1/9^* HH1b(2,4,7,1, \text{plext.plext}) * F^{-3} \sin \sqrt{3} + 5/9^* HH1b(2,4,7,1, \text{plext.plext}) * F^{-3} \sin^2 \cos x - 1/9^* HH1b(2,4,7,1, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} - 2/27^* HH1b(3,4,5, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} m83^{-1} + 19/27^* HH1b(3,4,5, \text{plext.plext}) * F^{-3} \sin^2 \cos x m83^{-1} - \\
& 1 + 7/27^* HH1b(3,4,5, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} m83^{-1} + 4/3^* HH1b(3,4,5, \text{plext.plext}) * F^{-3} \sin^4 \cos x m83^{-1} + 4/27^* HH1b(3,4,5, \text{plext.plext}) * F^{-3} \sin^5 \sqrt{3} m83^{-1} - \\
& 1 + 1/12^* HH1b(3,4,5,1, \text{plext.plext}) * F^{-3} \cos x + 1/27^* HH1b(3,4,5,1, \text{plext.plext}) * F^{-3} \sin \sqrt{3} + 1/27^* HH1b(3,4,5,1, \text{plext.plext}) * F^{-3} \sin^2 \cos x - 2/27^* HH1b(3,4,5,1, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} - 2/3^* HH1b(3,4,5,1, \text{plext.plext}) * F^{-3} \sin^4 \cos x - \\
& 2/27^* HH1b(3,6,7, \text{plext.plext}) * F^{-3} \sin \sqrt{3} m83^{-1} + 19/27^* HH1b(3,6,7, \text{plext.plext}) * F^{-3} \sin^2 \cos x m83^{-1} - 7/27^* HH1b(3,6,7, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} m83^{-1} - \\
& 1 + 4/3^* HH1b(3,6,7, \text{plext.plext}) * F^{-3} \sin^4 \cos x m83^{-1} - 4/27^* HH1b(3,6,7, \text{plext.plext}) * F^{-3} \sin^5 \sqrt{3} m83^{-1} + 1/12^* HH1b(3,6,7,1, \text{plext.plext}) * F^{-3} \cos x - \\
& 1/27^* HH1b(3,6,7,1, \text{plext.plext}) * F^{-3} \sin \sqrt{3} - 1/27^* HH1b(3,6,7,1, \text{plext.plext}) * F^{-3} \sin^2 \cos x + \\
& 2/27^* HH1b(3,6,7,1, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} - 2/3^* HH1b(4,2,7, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} m83^{-1} + 4/9^* HH1b(4,2,7, \text{plext.plext}) * F^{-3} \sin^2 \cos x m83^{-1} - \\
& 1 + 2/9^* HH1b(4,2,7,1, \text{plext.plext}) * F^{-3} \sin \sqrt{3} - 2/9^* HH1b(4,2,7,1, \text{plext.plext}) * F^{-3} \sin^2 \cos x - 17/27^* HH1b(4,5,8, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} m83^{-1} + \\
& 25/27^* HH1b(4,5,8, \text{plext.plext}) * F^{-3} \sin^2 \cos x m83^{-1} + 1/27^* HH1b(4,5,8, \text{plext.plext}) * F^{-3} \sin^3 \sqrt{3} m83^{-1} + 4/3^* HH1b(4,5,8, \text{plext.plext}) * F^{-3} \sin^4 \cos x m83^{-1} - \\
& 1 + 4/27^* HH1b(4,5,8, \text{plext.plext}) * F^{-3} \sin^5 \sqrt{3} m83^{-1} + 1/4^* HH1b(4,5,8,1, \text{plext.plext}) * F^{-3} \cos x - 2/27^* HH1b(4,5,8,1, \text{plext.plext}) * F^{-3} \sin \sqrt{3} - 1/9^* HH1b(4,5,8,1, \text{plext.plext}) * F^{-3} \sin^2 \cos x m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^2*\cos x + 4/27*HH1b(4,5,8,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - \\
& 2/3*HH1b(4,5,8,1,plext.plext)*F^{-3}*\sin x^4*\cos x - 2/27*HH1b(4,5,8,1,plext.plext)*F^{-} \\
& 3^*\sin x^5*\sqrt{3} - 2/3*HH1b(5,1,6,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + \\
& 4/9*HH1b(5,1,6,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 2/9*HH1b(5,1,6,1,plext.plext)*F^{-} \\
& 3^*\sin x*\sqrt{3} - 2/9*HH1b(5,1,6,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 17/27*HH1b(5,4,8,plext.plext)*F^{-} \\
& 3^*\sin x*\sqrt{3}*m83^{-1} + 25/27*HH1b(5,4,8,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-} \\
& 1 + 1/27*HH1b(5,4,8,plext.plext)*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 4/3*HH1b(5,4,8,plext.plext)*F^{-} \\
& 3^*\sin x^4*\cos x*m83^{-1} + 4/27*HH1b(5,4,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-} \\
& 1 + 1/4*HH1b(5,4,8,1,plext.plext)*F^{-3}*\cos x - 2/27*HH1b(5,4,8,1,plext.plext)*F^{-} \\
& 3^*\sin x*\sqrt{3} - 1/9*HH1b(5,4,8,1,plext.plext)*F^{-3}*\sin x^2*\cos x + 4/27*HH1b(5,4,8,1,plext.plext)*F^{-} \\
& 3^*\sin x^3*\sqrt{3} - 2/3*HH1b(5,4,8,1,plext.plext)*F^{-3}*\sin x^4*\cos x - 2/27*HH1b(5,4,8,1,plext.plext)*F^{-} \\
& 3^*\sin x^5*\sqrt{3} + 17/27*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + \\
& 25/27*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/27*HH1b(6,7,8,plext.plext)*F^{-} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} + 4/3*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-} \\
& 1 - 4/27*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 1/4*HH1b(6,7,8,1,plext.plext)*F^{-} \\
& 3^*\cos x + 2/27*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 1/9*HH1b(6,7,8,1,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x - 4/27*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - \\
& 2/3*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin x^4*\cos x + 2/27*HH1b(6,7,8,1,plext.plext)*F^{-} \\
& 3^*\sin x^5*\sqrt{3} + 17/27*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + \\
& 25/27*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/27*HH1b(7,6,8,plext.plext)*F^{-} \\
& 3^*\sin x^3*\sqrt{3}*m83^{-1} + 4/3*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x^4*\cos x*m83^{-} \\
& 1 - 4/27*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 1/4*HH1b(7,6,8,1,plext.plext)*F^{-} \\
& 3^*\cos x + 2/27*HH1b(7,6,8,1,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 1/9*HH1b(7,6,8,1,plext.plext)*F^{-} \\
& 3^*\sin x^2*\cos x - 4/27*HH1b(7,6,8,1,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - \\
& 2/3*HH1b(7,6,8,1,plext.plext)*F^{-3}*\sin x^4*\cos x + 2/27*HH1b(7,6,8,1,plext.plext)*F^{-} \\
& 3^*\sin x^5*\sqrt{3}) \\
& + mpp2^2*mkp2 * (+ 1/144*C*ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} \\
& + 1/432*C*ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 1/216*C*ln(3)*F^{-} \\
& 3^*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 7/8640*C*ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-} \\
& 1 - 1/288*C*ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 1/864*C*ln(4)*F^{-} \\
& 3^*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 7/8640*C*ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-} \\
& 1 - 1/288*C*ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 1/864*C*ln(6)*F^{-} \\
& 3^*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/432*C*ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-} \\
& 1 + 1/216*C*ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 49/10368*ln(1)*F^{-} \\
& 3^*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 328/27*ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-} \\
& 1 + 304/9*ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1} - 16/3*ln(1)*F^{-} \\
& 3^*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1} - 10/9*ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-} \\
& 2*L5r*m83^{-1} + 2*ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1} + 1/3*ln(1)*F^{-} \\
& 3^*\sin x^2*\cos x*\pi^{-2}*L3r*m83^{-1} + 1/162*ln(1)*F^{-3}*\sin x^4*\cos x*\pi^{-} \\
& 4*m83^{-1} - 320/27*ln(1)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1} - 320/9*ln(1)*F^{-} \\
& 3^*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1} + 1/864*ln(1)^2*F^{-3}*\sin x^2*\cos x*\pi^{-} \\
& 4*m83^{-1} + 161/103680*ln(1)*ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + \\
& 49/2592*ln(1)*ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 1/144*ln(1)*ln(3)*F^{-} \\
& 3^*\sin x^6*\cos x*\pi^{-4}*m83^{-1} + 359/414720*ln(1)*ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-} \\
& 4*m83^{-1} - 1/288*ln(1)*ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 49/10368*ln(1)*ln(4)*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin^3 \sqrt{3} \pi^{-4} m83^{-1} + 5/432 * \ln(1) * \ln(4) * F^{-3} \sin^4 \cos^2 \pi^{-4} m83^{-1} - 5/864 * \ln(1) * \ln(4) * F^{-3} \sin^5 \sqrt{3} \pi^{-4} m83^{-1} - 359/414720 * \ln(1) * \ln(6) * F^{-3} \sin^3 \sqrt{3} \pi^{-4} m83^{-1} - 1/288 * \ln(1) * \ln(6) * F^{-3} \sin^2 \cos^2 \pi^{-4} m83^{-1} - 49/10368 * \ln(1) * \ln(6) * F^{-3} \sin^3 \sqrt{3} \pi^{-4} m83^{-1} + 5/432 * \ln(1) * \ln(6) * F^{-3} \sin^4 \cos^2 \pi^{-4} m83^{-1} + 5/864 * \ln(1) * \ln(6) * F^{-3} \sin^5 \sqrt{3} \pi^{-4} m83^{-1} + 599/103680 * \ln(1) * \ln(8) * F^{-3} \sin^2 \cos^2 \pi^{-4} m83^{-1} - 1/288 * \ln(1) * \ln(8) * F^{-3} \sin^4 \cos^2 \pi^{-4} m83^{-1} + 1/144 * \ln(1) * \ln(8) * F^{-3} \sin^6 \cos^2 \pi^{-4} m83^{-1} - 1/648 * \ln(3) * F^{-3} \sin^2 \cos^2 \pi^{-4} m83^{-1} - 8/3 * \ln(3) * F^{-3} \sin^2 \cos^2 \pi^{-2} L8r * m83^{-1} - 32/9 * \ln(3) * F^{-3} \sin^2 \cos^2 \pi^{-2} L7r * m83^{-1} - 16/9 * \ln(3) * F^{-3} \sin^2 \cos^2 \pi^{-2} L6r * m83^{-1} + 14/27 * \ln(3) * F^{-3} \sin^2 \cos^2 \pi^{-2} L5r * m83^{-1} + 2/3 * \ln(3) * F^{-3} \sin^2 \cos^2 \pi^{-2} L4r * m83^{-1} + 1/324 * \ln(3) * F^{-3} \sin^4 \cos^2 \pi^{-4} m83^{-1} - 368/27 * \ln(3) * F^{-3} \sin^4 \cos^2 \pi^{-2} L8r * m83^{-1} - 448/9 * \ln(3) * F^{-3} \sin^4 \cos^2 \pi^{-2} L7r * m83^{-1} + 32/9 * \ln(3) * F^{-3} \sin^4 \cos^2 \pi^{-2} L6r * m83^{-1} - 28/27 * \ln(3) * F^{-3} \sin^4 \cos^2 \pi^{-2} L5r * m83^{-1} - 4/3 * \ln(3) * F^{-3} \sin^4 \cos^2 \pi^{-2} L4r * m83^{-1} + 512/27 * \ln(3) * F^{-3} \sin^6 \cos^2 \pi^{-2} L8r * m83^{-1} + 512/9 * \ln(3) * F^{-3} \sin^6 \cos^2 \pi^{-2} L7r * m83^{-1} + 67/41472 * \ln(3)^2 * F^{-3} \sin^2 \cos^2 \pi^{-4} m83^{-1} + 23/2592 * \ln(3)^2 * F^{-3} \sin^4 \cos^2 \pi^{-4} m83^{-1} - 31/2592 * \ln(3)^2 * F^{-3} \sin^6 \cos^2 \pi^{-4} m83^{-1} - 49/25920 * \ln(3) * \ln(4) * F^{-3} \sin^3 \sqrt{3} \pi^{-4} m83^{-1} - 641/207360 * \ln(3) * \ln(4) * F^{-3} \sin^2 \cos^2 \pi^{-4} m83^{-1} + 463/69120 * \ln(3) * \ln(4) * F^{-3} \sin^3 \sqrt{3} \pi^{-4} m83^{-1} + 71/5184 * \ln(3) * \ln(4) * F^{-3} \sin^4 \cos^2 \pi^{-4} m83^{-1} - 5/648 * \ln(3) * \ln(4) * F^{-3} \sin^5 \sqrt{3} \pi^{-4} m83^{-1} - 13/864 * \ln(3) * \ln(4) * F^{-3} \sin^6 \cos^2 \pi^{-4} m83^{-1} + 7/2592 * \ln(3) * \ln(4) * F^{-3} \sin^7 \sqrt{3} \pi^{-4} m83^{-1} + 49/25920 * \ln(3) * \ln(6) * F^{-3} \sin^3 \sqrt{3} \pi^{-4} m83^{-1} - 641/207360 * \ln(3) * \ln(6) * F^{-3} \sin^2 \cos^2 \pi^{-4} m83^{-1} - 463/69120 * \ln(3) * \ln(6) * F^{-3} \sin^3 \sqrt{3} \pi^{-4} m83^{-1} + 71/5184 * \ln(3) * \ln(6) * F^{-3} \sin^4 \cos^2 \pi^{-4} m83^{-1} + 5/648 * \ln(3) * \ln(6) * F^{-3} \sin^5 \sqrt{3} \pi^{-4} m83^{-1} - 13/864 * \ln(3) * \ln(6) * F^{-3} \sin^6 \cos^2 \pi^{-4} m83^{-1} - 7/2592 * \ln(3) * \ln(6) * F^{-3} \sin^7 \sqrt{3} \pi^{-4} m83^{-1} - 11/20736 * \ln(3) * \ln(8) * F^{-3} \sin^2 \cos^2 \pi^{-4} m83^{-1} + 1/648 * \ln(3) * \ln(8) * F^{-3} \sin^4 \cos^2 \pi^{-4} m83^{-1} - 1/1296 * \ln(3) * \ln(8) * F^{-3} \sin^6 \cos^2 \pi^{-4} m83^{-1} - 5/3456 * \ln(4) * F^{-3} \sin^3 \sqrt{3} \pi^{-4} m83^{-1} - 220/27 * \ln(4) * F^{-3} \sin^3 \sqrt{3} \pi^{-2} L8r * m83^{-1} - 50/3 * \ln(4) * F^{-3} \sin^3 \sqrt{3} \pi^{-2} L7r * m83^{-1} - 10/9 * \ln(4) * F^{-3} \sin^3 \sqrt{3} \pi^{-2} L6r * m83^{-1} + 5/4 * \ln(4) * F^{-3} \sin^3 \sqrt{3} \pi^{-2} L5r * m83^{-1} + 5/12 * \ln(4) * F^{-3} \sin^3 \sqrt{3} \pi^{-2} L4r * m83^{-1} + 1/18 * \ln(4) * F^{-3} \sin^3 \sqrt{3} \pi^{-2} L3r * m83^{-1} - 49/20736 * \ln(4) * F^{-3} \sin^2 \cos^2 \pi^{-4} m83^{-1} - 164/27 * \ln(4) * F^{-3} \sin^2 \cos^2 \pi^{-2} L8r * m83^{-1} - 152/9 * \ln(4) * F^{-3} \sin^2 \cos^2 \pi^{-2} L7r * m83^{-1} + 8/3 * \ln(4) * F^{-3} \sin^2 \cos^2 \pi^{-2} L6r * m83^{-1} + 5/9 * \ln(4) * F^{-3} \sin^2 \cos^2 \pi^{-2} L5r * m83^{-1} - \ln(4) * F^{-3} \sin^2 \cos^2 \pi^{-2} L4r * m83^{-1} - 1/6 * \ln(4) * F^{-3} \sin^2 \cos^2 \pi^{-2} L3r * m83^{-1} + 91/20736 * \ln(4) * F^{-3} \sin^3 \sqrt{3} \pi^{-4} m83^{-1} + 20/9 * \ln(4) * F^{-3} \sin^3 \sqrt{3} \pi^{-2} L8r * m83^{-1} - 8/9 * \ln(4) * F^{-3} \sin^3 \sqrt{3} \pi^{-2} L7r * m83^{-1} + 8/9 * \ln(4) * F^{-3} \sin^3 \sqrt{3} \pi^{-2} L6r * m83^{-1} - 31/27 * \ln(4) * F^{-3} \sin^3 \sqrt{3} \pi^{-2} L5r * m83^{-1} - 1/3 * \ln(4) * F^{-3} \sin^3 \sqrt{3} \pi^{-2} L4r * m83^{-1} - 1/18 * \ln(4) * F^{-3} \sin^3 \sqrt{3} \pi^{-2} L3r * m83^{-1} - 1/324 * \ln(4) * F^{-3} \sin^4 \cos^2 \pi^{-4} m83^{-1} + 160/27 * \ln(4) * F^{-3} \sin^4 \cos^2 \pi^{-2} L8r * m83^{-1} + 160/9 * \ln(4) * F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-1} - 1/324 * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} + 160/27 * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L8r * m83^{-1} + 160/9 * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L7r * m83^{-1} - 1/10368 * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 7/3456 * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 31/10368 * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 5/576 * \ln(4)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} - 5/1728 * \ln(4)^2 * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/576 * \ln(4) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 5/864 * \ln(4) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} - 413/207360 * \ln(4) * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} - 119/207360 * \ln(4) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 1171/207360 * \ln(4) * \ln(8) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 37/1728 * \ln(4) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 13/864 * \ln(4) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} - 7/2592 * \ln(4) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-1} + 5/3456 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 220/27 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L8r * m83^{-1} + 50/3 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L7r * m83^{-1} + 10/9 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L6r * m83^{-1} - 5/4 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L5r * m83^{-1} - 5/12 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L4r * m83^{-1} - 1/18 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L3r * m83^{-1} - 49/20736 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 164/27 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-1} - 152/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-1} + 8/3 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-1} + 5/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-1} - \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-1} - 1/6 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L3r * m83^{-1} - 91/20736 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 20/9 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L8r * m83^{-1} + 8/9 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L7r * m83^{-1} - 8/9 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L6r * m83^{-1} + 31/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L5r * m83^{-1} + 1/3 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L4r * m83^{-1} + 1/18 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L3r * m83^{-1} - 1/324 * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 160/27 * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-1} + 160/9 * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-1} + 1/324 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} - 160/27 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L8r * m83^{-1} - 160/9 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L7r * m83^{-1} + 1/10368 * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 7/3456 * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 31/10368 * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 5/576 * \ln(6)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 5/1728 * \ln(6)^2 * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-1} + 413/207360 * \ln(6) * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} - 119/207360 * \ln(6) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 1171/207360 * \ln(6) * \ln(8) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 37/1728 * \ln(6) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 13/864 * \ln(6) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} + 7/2592 * \ln(6) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-1} + 1/648 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 8/3 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-1} + 32/9 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-1} + 16/9 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-1} - 14/27 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-1} - 2/3 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-1} - 1/324 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} + 368/27 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-1} + 448/9 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-1} - 32/9 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L6r * m83^{-1} + 28/27 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L5r * m83^{-1} + 4/3 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L4r * m83^{-1} - 512/27 * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} - 512/9 * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L7r * m83^{-1} - 5/4608 * \ln(8)^2 * F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^2*\cos x*\pi^{\wedge-4}*m83^{\wedge-1} - 1/96*\ln(8)^{\wedge 2}*F^{\wedge-3}*\sin x^4*\cos x*\pi^{\wedge-4}*m83^{\wedge-1} \\
& + 11/864*\ln(8)^{\wedge 2}*F^{\wedge-3}*\sin x^6*\cos x*\pi^{\wedge-4}*m83^{\wedge-1} - 1/1920/(mass(1))*\ln(1)^{\wedge 2}*F^{\wedge-} \\
& 3^*\sin x^2*\cos x*\pi^{\wedge-4} - 1/11520/(mass(2))*\ln(1)^{\wedge 2}*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-4} - \\
& 1/2160/(mass(3))*\ln(3)^{\wedge 2}*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-4} + 1/1080/(mass(3))*\ln(3)^{\wedge 2}*F^{\wedge-} \\
& 3^*\sin x^4*\cos x*\pi^{\wedge-4} - 1/4608/(mass(4))*\ln(4)^{\wedge 2}*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4} + \\
& 1/3840/(mass(4))*\ln(4)^{\wedge 2}*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-4} + 1/4608/(mass(4))*\ln(4)^{\wedge 2}*F^{\wedge-} \\
& 3^*\sin x^3*\sqrt{3}*\pi^{\wedge-4} - 1/1728/(mass(5))*\ln(4)^{\wedge 2}*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4} + \\
& 1/23040/(mass(5))*\ln(4)^{\wedge 2}*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-4} + 1/1728/(mass(5))*\ln(4)^{\wedge 2}*F^{\wedge-} \\
& 3^*\sin x^3*\sqrt{3}*\pi^{\wedge-4} + 1/4608/(mass(6))*\ln(6)^{\wedge 2}*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4} + \\
& 1/3840/(mass(6))*\ln(6)^{\wedge 2}*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-4} - 1/4608/(mass(6))*\ln(6)^{\wedge 2}*F^{\wedge-} \\
& 3^*\sin x^3*\sqrt{3}*\pi^{\wedge-4} + 1/1728/(mass(7))*\ln(6)^{\wedge 2}*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4} + \\
& 1/23040/(mass(7))*\ln(6)^{\wedge 2}*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-4} - 1/1728/(mass(7))*\ln(6)^{\wedge 2}*F^{\wedge-} \\
& 3^*\sin x^3*\sqrt{3}*\pi^{\wedge-4} + 1/2048/(mass(8))*\ln(8)^{\wedge 2}*F^{\wedge-3}*\cos x*\pi^{\wedge-4} + \\
& 1/2160/(mass(8))*\ln(8)^{\wedge 2}*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-4} - 1/1080/(mass(8))*\ln(8)^{\wedge 2}*F^{\wedge-} \\
& 3^*\sin x^4*\cos x*\pi^{\wedge-4}) \\
& + mpp2^{\wedge 2}*mcp2^{\wedge 2} * (- 532480/27*F^{\wedge-3}*\sin x^2*\cos x*L8r^{\wedge 2}*m83^{\wedge-2} - \\
& 352256/3*F^{\wedge-3}*\sin x^2*\cos x*L7r*L8r*m83^{\wedge-2} - 524288/3*F^{\wedge-3}*\sin x^2*\cos x*L7r^{\wedge 2}*m83^{\wedge-} \\
& 2 - 8192/9*F^{\wedge-3}*\sin x^2*\cos x*L6r*L8r*m83^{\wedge-2} - 8192/3*F^{\wedge-3}*\sin x^2*\cos x*L6r*L7r*m83^{\wedge-} \\
& 2 + 4096/27*F^{\wedge-3}*\sin x^2*\cos x*L5r*L8r*m83^{\wedge-2} + 4096/9*F^{\wedge-3}*\sin x^2*\cos x*L5r*L7r*m83^{\wedge-} \\
& 2 + 4096/9*F^{\wedge-3}*\sin x^2*\cos x*L4r*L8r*m83^{\wedge-2} + 4096/3*F^{\wedge-3}*\sin x^2*\cos x*L4r*L7r*m83^{\wedge-} \\
& 2 + 262144/9*F^{\wedge-3}*\sin x^4*\cos x*L8r^{\wedge 2}*m83^{\wedge-2} + 524288/3*F^{\wedge-3}*\sin x^4*\cos x*L7r*L8r*m83^{\wedge-} \\
& 2 + 262144*F^{\wedge-3}*\sin x^4*\cos x*L7r^{\wedge 2}*m83^{\wedge-2} - 1/324*C*\ln(3)*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-} \\
& 4*m83^{\wedge-2} - 1/864*C*\ln(4)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} + 1/864*C*\ln(6)*F^{\wedge-} \\
& 3*\sin x*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} + 1/324*C*\ln(8)*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-4}*m83^{\wedge-} \\
& 2 + 16/27*\ln(1)*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-2}*L8r*m83^{\wedge-2} + 32/9*\ln(1)*F^{\wedge-} \\
& 3*\sin x^2*\cos x*\pi^{\wedge-2}*L7r*m83^{\wedge-2} - 16/9*\ln(1)*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-} \\
& 2*L6r*m83^{\wedge-2} + 8/27*\ln(1)*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-2}*L5r*m83^{\wedge-2} + 8/9*\ln(1)*F^{\wedge-} \\
& 3*\sin x^2*\cos x*\pi^{\wedge-2}*L4r*m83^{\wedge-2} - 128/9*\ln(1)*F^{\wedge-3}*\sin x^4*\cos x*\pi^{\wedge-} \\
& 2*L8r*m83^{\wedge-2} - 128/3*\ln(1)*F^{\wedge-3}*\sin x^4*\cos x*\pi^{\wedge-2}*L7r*m83^{\wedge-2} - 5/648*\ln(1)*\ln(3)*F^{\wedge-} \\
& 3*\sin x^4*\cos x*\pi^{\wedge-4}*m83^{\wedge-2} + 1/54*\ln(1)*\ln(3)*F^{\wedge-3}*\sin x^6*\cos x*\pi^{\wedge-} \\
& 4*m83^{\wedge-2} + 1/384*\ln(1)*\ln(4)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} - 1/432*\ln(1)*\ln(4)*F^{\wedge-} \\
& 3*\sin x^2*\cos x*\pi^{\wedge-4}*m83^{\wedge-2} - 7/432*\ln(1)*\ln(4)*F^{\wedge-3}*\sin x^3*\sqrt{3}*\pi^{\wedge-} \\
& 4*m83^{\wedge-2} + 1/72*\ln(1)*\ln(4)*F^{\wedge-3}*\sin x^4*\cos x*\pi^{\wedge-4}*m83^{\wedge-2} + 1/72*\ln(1)*\ln(4)*F^{\wedge-} \\
& 3*\sin x^5*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} - 1/384*\ln(1)*\ln(6)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-} \\
& 4*m83^{\wedge-2} - 1/432*\ln(1)*\ln(6)*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-4}*m83^{\wedge-2} + 7/432*\ln(1)*\ln(6)*F^{\wedge-} \\
& 3*\sin x^3*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} + 1/72*\ln(1)*\ln(6)*F^{\wedge-3}*\sin x^4*\cos x*\pi^{\wedge-} \\
& 4*m83^{\wedge-2} - 1/72*\ln(1)*\ln(6)*F^{\wedge-3}*\sin x^5*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-2} + 17/648*\ln(1)*\ln(8)*F^{\wedge-} \\
& 3*\sin x^4*\cos x*\pi^{\wedge-4}*m83^{\wedge-2} - 1/54*\ln(1)*\ln(8)*F^{\wedge-3}*\sin x^6*\cos x*\pi^{\wedge-} \\
& 4*m83^{\wedge-2} + 1936/81*\ln(3)*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-2}*L8r*m83^{\wedge-2} + 1904/27*\ln(3)*F^{\wedge-} \\
& 3*\sin x^2*\cos x*\pi^{\wedge-2}*L7r*m83^{\wedge-2} + 16/27*\ln(3)*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-} \\
& 2*L6r*m83^{\wedge-2} + 8/27*\ln(3)*F^{\wedge-3}*\sin x^2*\cos x*\pi^{\wedge-2}*L4r*m83^{\wedge-2} - 416/27*\ln(3)*F^{\wedge-} \\
& 3*\sin x^4*\cos x*\pi^{\wedge-2}*L8r*m83^{\wedge-2} - 1280/27*\ln(3)*F^{\wedge-3}*\sin x^4*\cos x*\pi^{\wedge-} \\
& 2*L7r*m83^{\wedge-2} + 32/27*\ln(3)*F^{\wedge-3}*\sin x^4*\cos x*\pi^{\wedge-2}*L6r*m83^{\wedge-2} - 16/81*\ln(3)*F^{\wedge-} \\
& 3*\sin x^4*\cos x*\pi^{\wedge-2}*L5r*m83^{\wedge-2} - 16/27*\ln(3)*F^{\wedge-3}*\sin x^4*\cos x*\pi^{\wedge-} \\
& 2*L4r*m83^{\wedge-2} - 512/27*\ln(3)*F^{\wedge-3}*\sin x^6*\cos x*\pi^{\wedge-2}*L8r*m83^{\wedge-2} - 512/9*\ln(3)*F^{\wedge-}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^6 * \cos x^* \pi^{-2} * L7r * m83^{-2} - 19/2592 * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x^* \pi^{-4} * m83^{-2} - 7/972 * \ln(3)^2 * F^{-3} * \sin x^4 * \cos x^* \pi^{-4} * m83^{-2} + 11/486 * \ln(3)^2 * F^{-3} * \sin x^6 * \cos x^* \pi^{-4} * m83^{-2} - 1/162 * \ln(3)^2 * F^{-3} * \sin x^8 * \cos x^* \pi^{-4} * m83^{-2} \\
& + 245/62208 * \ln(3) * \ln(4) * F^{-3} * \sin x^* \sqrt{3} * \pi^{-4} * m83^{-2} - 119/5184 * \ln(3) * \ln(4) * F^{-3} * \sin x^2 * \cos x^* \pi^{-4} * m83^{-2} - 217/15552 * \ln(3) * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& + 13/648 * \ln(3) * \ln(4) * F^{-3} * \sin x^4 * \cos x^* \pi^{-4} * m83^{-2} + 37/1944 * \ln(3) * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} + 1/108 * \ln(3) * \ln(4) * F^{-3} * \sin x^6 * \cos x^* \pi^{-4} * m83^{-2} \\
& - 1/108 * \ln(3) * \ln(4) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-2} - 245/62208 * \ln(3) * \ln(6) * F^{-3} * \sin x^* \sqrt{3} * \pi^{-4} * m83^{-2} - 119/5184 * \ln(3) * \ln(6) * F^{-3} * \sin x^2 * \cos x^* \pi^{-4} * m83^{-2} \\
& + 217/15552 * \ln(3) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} + 13/648 * \ln(3) * \ln(6) * F^{-3} * \sin x^4 * \cos x^* \pi^{-4} * m83^{-2} - 37/1944 * \ln(3) * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& + 1/108 * \ln(3) * \ln(6) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-2} - 65/3888 * \ln(3) * \ln(8) * F^{-3} * \sin x^2 * \cos x^* \pi^{-4} * m83^{-2} + 11/324 * \ln(3) * \ln(8) * F^{-3} * \sin x^4 * \cos x^* \pi^{-4} * m83^{-2} \\
& - 5/243 * \ln(3) * \ln(8) * F^{-3} * \sin x^6 * \cos x^* \pi^{-4} * m83^{-2} + 1/81 * \ln(3) * \ln(8) * F^{-3} * \sin x^8 * \cos x^* \pi^{-4} * m83^{-2} - 538/81 * \ln(4) * F^{-3} * \sin x^* \sqrt{3} * \pi^{-2} * L8r * m83^{-2} \\
& - 544/27 * \ln(4) * F^{-3} * \sin x^* \sqrt{3} * \pi^{-2} * L7r * m83^{-2} + 1/27 * \ln(4) * F^{-3} * \sin x^* \sqrt{3} * \pi^{-2} * L5r * m83^{-2} + 2/9 * \ln(4) * F^{-3} * \sin x^* \sqrt{3} * \pi^{-2} * L4r * m83^{-2} \\
& + 112/3 * \ln(4) * F^{-3} * \sin x^2 * \cos x^* \pi^{-2} * L8r * m83^{-2} + 992/9 * \ln(4) * F^{-3} * \sin x^2 * \cos x^* \pi^{-2} * L7r * m83^{-2} + 16/9 * \ln(4) * F^{-3} * \sin x^2 * \cos x^* \pi^{-2} * L6r * m83^{-2} \\
& - 8/27 * \ln(4) * F^{-3} * \sin x^2 * \cos x^* \pi^{-2} * L5r * m83^{-2} - 8/9 * \ln(4) * F^{-3} * \sin x^2 * \cos x^* \pi^{-2} * L4r * m83^{-2} + 1120/81 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} \\
& + 1120/27 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} - 448/9 * \ln(4) * F^{-3} * \sin x^4 * \cos x^* \pi^{-2} * L8r * m83^{-2} - 448/3 * \ln(4) * F^{-3} * \sin x^4 * \cos x^* \pi^{-2} * L7r * m83^{-2} \\
& - 64/9 * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} - 64/3 * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} - 1/13824 * \ln(4)^2 * F^{-3} * \sin x^* \sqrt{3} * \pi^{-4} * m83^{-2} \\
& + 53/10368 * \ln(4)^2 * F^{-3} * \sin x^* \sqrt{3} * \pi^{-4} * m83^{-2} - 7/1296 * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x^* \pi^{-4} * m83^{-2} + 1/36 * \ln(4)^2 * F^{-3} * \sin x^4 * \cos x^* \pi^{-4} * m83^{-2} \\
& + 1/6912 * \ln(4) * \ln(6) * F^{-3} * \sin x^* \sqrt{3} * \pi^{-4} * m83^{-2} - 11/432 * \ln(4) * \ln(6) * F^{-3} * \sin x^2 * \cos x^* \pi^{-4} * m83^{-2} + 1/36 * \ln(4) * \ln(6) * F^{-3} * \sin x^4 * \cos x^* \pi^{-4} * m83^{-2} \\
& + 293/62208 * \ln(4) * \ln(8) * F^{-3} * \sin x^* \sqrt{3} * \pi^{-4} * m83^{-2} - 137/5184 * \ln(4) * \ln(8) * F^{-3} * \sin x^2 * \cos x^* \pi^{-4} * m83^{-2} - 7/1728 * \ln(4) * \ln(8) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& - 19/648 * \ln(4) * \ln(8) * F^{-3} * \sin x^4 * \cos x^* \pi^{-4} * m83^{-2} - 19/1944 * \ln(4) * \ln(8) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/108 * \ln(4) * \ln(8) * F^{-3} * \sin x^6 * \cos x^* \pi^{-4} * m83^{-2} \\
& + 1/108 * \ln(4) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-2} + 538/81 * \ln(6) * F^{-3} * \sin x^* \sqrt{3} * \pi^{-2} * L8r * m83^{-2} + 544/27 * \ln(6) * F^{-3} * \sin x^* \sqrt{3} * \pi^{-2} * L7r * m83^{-2} \\
& - 1/27 * \ln(6) * F^{-3} * \sin x^* \sqrt{3} * \pi^{-2} * L5r * m83^{-2} - 2/9 * \ln(6) * F^{-3} * \sin x^* \sqrt{3} * \pi^{-2} * L4r * m83^{-2} + 112/3 * \ln(6) * F^{-3} * \sin x^2 * \cos x^* \pi^{-2} * L8r * m83^{-2} \\
& + 992/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x^* \pi^{-2} * L7r * m83^{-2} + 16/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x^* \pi^{-2} * L6r * m83^{-2} - 8/27 * \ln(6) * F^{-3} * \sin x^2 * \cos x^* \pi^{-2} * L5r * m83^{-2} \\
& - 8/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x^* \pi^{-2} * L4r * m83^{-2} - 1120/81 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} - 1120/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} \\
& - 448/9 * \ln(6) * F^{-3} * \sin x^4 * \cos x^* \pi^{-2} * L8r * m83^{-2} - 448/3 * \ln(6) * F^{-3} * \sin x^4 * \cos x^* \pi^{-2} * L7r * m83^{-2} + 64/9 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} \\
& + 64/3 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} - 1/13824 * \ln(6)^2 * F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^* \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 53/10368 * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} \\
& - 1/48 * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 7/1296 * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + 1/36 * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} \\
& - 293/62208 * \ln(6)^* \ln(8)^* F^{\wedge -3} * \sin x^* \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - 137/5184 * \ln(6)^* \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 7/1728 * \ln(6)^* \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + 29/648 * \ln(6)^* \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 19/1944 * \ln(6)^* \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 5} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - 1/108 * \ln(6)^* \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 1/108 * \ln(6)^* \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 7} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + 752/27 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L8r^* m83^{\wedge -2} + 752/9 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L7r^* m83^{\wedge -2} + 16/27 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L6r^* m83^{\wedge -2} - 16/81 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L5r^* m83^{\wedge -2} - 8/9 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L4r^* m83^{\wedge -2} - 544/9 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L8r^* m83^{\wedge -2} - 4864/27 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L7r^* m83^{\wedge -2} - 32/27 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L6r^* m83^{\wedge -2} + 16/81 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L5r^* m83^{\wedge -2} + 16/27 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -2} * L4r^* m83^{\wedge -2} + 512/27 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -2} * L8r^* m83^{\wedge -2} + 512/9 * \ln(8)^* F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -2} * L7r^* m83^{\wedge -2} - 77/7776 * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 11/486 * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 1/486 * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 1/162 * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 8} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 5/2304 / (\text{mass}(1))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 5/2304 / (\text{mass}(3))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 169/38880 / (\text{mass}(3))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 1549/184320 / (\text{mass}(4))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 19/3456 / (\text{mass}(4))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 61/6912 / (\text{mass}(4))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} - 4687/552960 / (\text{mass}(5))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 19/3456 / (\text{mass}(5))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 61/6912 / (\text{mass}(5))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + 1549/184320 / (\text{mass}(6))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 19/3456 / (\text{mass}(6))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 61/6912 / (\text{mass}(6))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + 4687/552960 / (\text{mass}(7))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 19/3456 / (\text{mass}(7))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 61/6912 / (\text{mass}(7))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + 251/38880 / (\text{mass}(8))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 1/243 / (\text{mass}(8))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1}) \\
& + \text{mpp}2^{\wedge 2} * \text{mkp}2^{\wedge 3} * (+ 5/2916 / (\text{mass}(3))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 1/1728 / (\text{mass}(4))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 1/1728 / (\text{mass}(6))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 5/2916 / (\text{mass}(8))^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2}) \\
& + \text{mpp}2^{\wedge 3} * (- 1253/62208 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 293/93312 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * m83^{\wedge -1} - 80/27 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L8r^* m83^{\wedge -1} - 32/27 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L7r^* m83^{\wedge -1} - 80/27 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L6r^* m83^{\wedge -1} + 104/81 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L5r^* m83^{\wedge -1} + 40/27 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L4r^* m83^{\wedge -1} + 1/27 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -2} * L3r^* m83^{\wedge -1} + 2048/27 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* L5r^* L8r^* m83^{\wedge -1} + 2048/9 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* L5r^* L7r^* m83^{\wedge -1} + 2048/9 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* L4r^* L8r^* m83^{\wedge -1} + 2048/3 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* L4r^* L7r^* m83^{\wedge -1} + 2048/9 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* CC33^* m83^{\wedge -1} + 1024/9 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* CC32^* m83^{\wedge -1})
\end{aligned}$$

$$\begin{aligned}
& 1 + 1024/9F^{-3}\sin^2\cos^*CC31^*m83^{-1} + 1024/9F^{-3}\sin^2\cos^*CC20^*m83^{-1} \\
& - 1 + 512/3F^{-3}\sin^2\cos^*CC19^*m83^{-1} - 512/9F^{-3}\sin^2\cos^*CC18^*m83^{-1} \\
& - 1 - 512/27F^{-3}\sin^2\cos^*CC17^*m83^{-1} - 512/27F^{-3}\sin^2\cos^*CC14^*m83^{-1} \\
& - 1 - 64/27C^*F^{-3}\sin^2\cos^*\pi^{-2}L8r^*m83^{-1} - 64/9C^*F^{-3}\sin^2\cos^*\pi^{-2}L7r^*m83^{-1} \\
& + 1/288C^*\ln(1)^*F^{-3}\sin^2\cos^*\pi^{-4}m83^{-1} + 19/3240C^*\ln(3)^*F^{-3}\sin^2\cos^*\pi^{-4}m83^{-1} \\
& - 1/648C^*\ln(3)^*F^{-3}\sin^4\cos^*\pi^{-4}m83^{-1} + 1/1728C^*\ln(4)^*F^{-3}\sin^2\cos^*\pi^{-4}m83^{-1} \\
& - 1/1728C^*\ln(4)^*F^{-3}\sin^3\sqrt{3}\pi^{-4}m83^{-1} - 1/1728C^*\ln(6)^*F^{-3}\sin^2\cos^*\pi^{-4}m83^{-1} \\
& + 1/1728C^*\ln(6)^*F^{-3}\sin^3\sqrt{3}\pi^{-4}m83^{-1} - 1/360C^*\ln(8)^*F^{-3}\sin^2\cos^*\pi^{-4}m83^{-1} \\
& + 1/648C^*\ln(8)^*F^{-3}\sin^4\cos^*\pi^{-4}m83^{-1} + 1/648\ln(1)^*F^{-3}\sin^2\cos^*\pi^{-4}m83^{-1} \\
& - 272/27\ln(1)^*F^{-3}\sin^2\cos^*\pi^{-2}L8r^*m83^{-1} - 176/9\ln(1)^*F^{-3}\sin^2\cos^*\pi^{-2}L7r^*m83^{-1} \\
& - 8/3\ln(1)^*F^{-3}\sin^2\cos^*\pi^{-2}L6r^*m83^{-1} + 13/9\ln(1)^*F^{-3}\sin^2\cos^*\pi^{-2}L5r^*m83^{-1} \\
& + \ln(1)^*F^{-3}\sin^2\cos^*\pi^{-2}L4r^*m83^{-1} + 1/6\ln(1)^*F^{-3}\sin^2\cos^*\pi^{-2}L3r^*m83^{-1} - 1/324\ln(1)^*F^{-3}\sin^4\cos^*\pi^{-4}m83^{-1} \\
& + 160/27\ln(1)^*F^{-3}\sin^4\cos^*\pi^{-2}L8r^*m83^{-1} + 160/9\ln(1)^*F^{-3}\sin^4\cos^*\pi^{-2}L7r^*m83^{-1} + 13/6912\ln(1)^2F^{-3}\sin^2\cos^*\pi^{-4}m83^{-1} \\
& - 5/576\ln(1)^2F^{-3}\sin^4\cos^*\pi^{-4}m83^{-1} - 137/51840\ln(1)\ln(3)^*F^{-3}\sin^2\cos^*\pi^{-4}m83^{-1} - 61/5184\ln(1)\ln(3)^*F^{-3}\sin^4\cos^*\pi^{-4}m83^{-1} \\
& + 5/432\ln(1)\ln(3)^*F^{-3}\sin^6\cos^*\pi^{-4}m83^{-1} - 25/41472\ln(1)\ln(4)^*F^{-3}\sin^2\cos^*\pi^{-4}m83^{-1} - 13/13824\ln(1)\ln(4)^*F^{-3}\sin^2\cos^*\pi^{-4}m83^{-1} \\
& - 95/41472\ln(1)\ln(4)^*F^{-3}\sin^3\sqrt{3}\pi^{-4}m83^{-1} + 5/1728\ln(1)\ln(4)^*F^{-3}\sin^4\cos^*\pi^{-4}m83^{-1} + 5/1728\ln(1)\ln(4)^*F^{-3}\sin^5\sqrt{3}\pi^{-4}m83^{-1} \\
& + 25/41472\ln(1)\ln(6)^*F^{-3}\sin^2\cos^*\pi^{-4}m83^{-1} + 95/41472\ln(1)\ln(6)^*F^{-3}\sin^3\sqrt{3}\pi^{-4}m83^{-1} + 5/1728\ln(1)\ln(6)^*F^{-3}\sin^4\cos^*\pi^{-4}m83^{-1} \\
& - 5/1728\ln(1)\ln(6)^*F^{-3}\sin^5\sqrt{3}\pi^{-4}m83^{-1} - 17/12960\ln(1)\ln(8)^*F^{-3}\sin^2\cos^*\pi^{-4}m83^{-1} + 7/1728\ln(1)\ln(8)^*F^{-3}\sin^4\cos^*\pi^{-4}m83^{-1} \\
& - 1/972\ln(3)^*F^{-3}\sin^2\cos^*\pi^{-4}m83^{-1} - 392/81\ln(3)^*F^{-3}\sin^2\cos^*\pi^{-2}L8r^*m83^{-1} - 224/27\ln(3)^*F^{-3}\sin^2\cos^*\pi^{-2}L7r^*m83^{-1} - 16/9\ln(3)^*F^{-3}\sin^2\cos^*\pi^{-2}L6r^*m83^{-1} \\
& + 46/81\ln(3)^*F^{-3}\sin^2\cos^*\pi^{-2}L5r^*m83^{-1} + 2/3\ln(3)^*F^{-3}\sin^2\cos^*\pi^{-2}L4r^*m83^{-1} + 1/972\ln(3)^*F^{-3}\sin^4\cos^*\pi^{-4}m83^{-1} + 656/81\ln(3)^*F^{-3}\sin^4\cos^*\pi^{-2}L8r^*m83^{-1} \\
& + 64/3\ln(3)^*F^{-3}\sin^4\cos^*\pi^{-2}L7r^*m83^{-1} + 32/27\ln(3)^*F^{-3}\sin^4\cos^*\pi^{-2}L6r^*m83^{-1} - 28/81\ln(3)^*F^{-3}\sin^4\cos^*\pi^{-2}L5r^*m83^{-1} - 4/9\ln(3)^*F^{-3}\sin^4\cos^*\pi^{-2}L4r^*m83^{-1} - 512/81\ln(3)^*F^{-3}\sin^6\cos^*\pi^{-2}L8r^*m83^{-1} \\
& - 512/27\ln(3)^*F^{-3}\sin^6\cos^*\pi^{-2}L7r^*m83^{-1} + 563/248832\ln(3)^2F^{-3}\sin^2\cos^*\pi^{-4}m83^{-1} - 113/15552\ln(3)^2F^{-3}\sin^4\cos^*\pi^{-4}m83^{-1} + 161/15552\ln(3)^2F^{-3}\sin^6\cos^*\pi^{-4}m83^{-1} \\
& - 1/243\ln(3)^2F^{-3}\sin^8\cos^*\pi^{-4}m83^{-1} + 1/2430\ln(3)\ln(4)^*F^{-3}\sin^2\cos^*\pi^{-4}m83^{-1} - 97/103680\ln(3)\ln(4)^*F^{-3}\sin^2\cos^*\pi^{-4}m83^{-1} - 143/51840\ln(3)\ln(4)^*F^{-3}\sin^3\sqrt{3}\pi^{-4}m83^{-1} \\
& + 13/10368\ln(3)\ln(4)^*F^{-3}\sin^4\cos^*\pi^{-4}m83^{-1} + 133/31104\ln(3)\ln(4)^*F^{-3}\sin^5\sqrt{3}\pi^{-4}m83^{-1} + 1/2592\ln(3)\ln(4)^*F^{-3}\sin^6\cos^*\pi^{-4}m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} + 1/6*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2} \\
& - 2*L4r*m83^{-1} + 1/36*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} + \\
& 1/648*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 80/27*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4} \\
& - 2*L8r*m83^{-1} - 80/9*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1} - 1/1944*\ln(6)*F^{-3} \\
& - 3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} + 80/81*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} \\
& - 1 + 80/27*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} - 11/41472*\ln(6)^2*F^{-3} \\
& - 3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 23/41472*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} \\
& - 1 - 1/4608*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 5/3456*\ln(6)^2*F^{-3} \\
& - 3*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 5/10368*\ln(6)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} \\
& - 4*m83^{-1} - 307/311040*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 23/17280*\ln(6)*\ln(8)*F^{-3} \\
& - 3*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 23/311040*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& - 4*m83^{-1} + 1/384*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 31/10368*\ln(6)*\ln(8)*F^{-3} \\
& - 3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/2592*\ln(6)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4} \\
& - 4*m83^{-1} - 5/2592*\ln(6)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/1296*\ln(8)*F^{-3} \\
& - 3*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 8/3*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1} \\
& - 1 - 128/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1} - 16/27*\ln(8)*F^{-3} \\
& - 3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1} + 58/81*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2} \\
& - 2*L5r*m83^{-1} + 2/9*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1} - 1/972*\ln(8)*F^{-3} \\
& - 3*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 656/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1} \\
& - 1 - 64/3*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1} - 32/27*\ln(8)*F^{-3} \\
& - 3*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-1} + 28/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2} \\
& - 2*L5r*m83^{-1} + 4/9*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-1} + 512/81*\ln(8)*F^{-3} \\
& - 3*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-1} + 512/27*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2} \\
& - 2*L7r*m83^{-1} + 275/248832*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + \\
& 43/15552*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 11/5184*\ln(8)^2*F^{-3} \\
& - 3*\sin x^6*\cos x*\pi^{-4}*m83^{-1} - 1/243*\ln(8)^2*F^{-3}*\sin x^8*\cos x*\pi^{-4}*m83^{-1} \\
& + 3/8192/(mass(1))*\ln(1)^2*F^{-3}*\cos x*\pi^{-4} - 7/15360/(mass(1))*\ln(1)^2*F^{-3} \\
& - 3*\sin x^2*\cos x*\pi^{-4} + 3/8192/(mass(2))*\ln(1)^2*F^{-3}*\cos x*\pi^{-4} - 41/46080/(mass(2))*\ln(1)^2*F^{-3} \\
& - 3*\sin x^2*\cos x*\pi^{-4} + 3/8192/(mass(3))*\ln(3)^2*F^{-3}*\cos x*\pi^{-4} - 1/1296/(mass(3))*\ln(3)^2*F^{-3} \\
& - 3*\sin x^2*\cos x*\pi^{-4} + 1/3240/(mass(3))*\ln(3)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} - \\
& 1/30720/(mass(4))*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 7/92160/(mass(4))*\ln(4)^2*F^{-3} \\
& - 3*\sin x^2*\cos x*\pi^{-4} + 1/30720/(mass(4))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + \\
& 11/276480/(mass(5))*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 41/276480/(mass(5))*\ln(4)^2*F^{-3} \\
& - 3*\sin x^2*\cos x*\pi^{-4} - 11/276480/(mass(5))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& + 1/30720/(mass(6))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 7/92160/(mass(6))*\ln(6)^2*F^{-3} \\
& - 3*\sin x^2*\cos x*\pi^{-4} - 1/30720/(mass(6))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - \\
& 11/276480/(mass(7))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 41/276480/(mass(7))*\ln(6)^2*F^{-3} \\
& - 3*\sin x^2*\cos x*\pi^{-4} + 11/276480/(mass(7))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& - 1/24576/(mass(8))*\ln(8)^2*F^{-3}*\cos x*\pi^{-4} - 1/2160/(mass(8))*\ln(8)^2*F^{-3} \\
& - 3*\sin x^2*\cos x*\pi^{-4} - 1/3240/(mass(8))*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} \\
&) \\
& + mpp2^3*mkp2 * (+ 1064960/81*F^{-3}*\sin x^2*\cos x*L8r^2*m83^{-2} + \\
& 704512/9*F^{-3}*\sin x^2*\cos x*L7r*L8r*m83^{-2} + 1048576/9*F^{-3}*\sin x^2*\cos x*L7r^2*m83^{-2} \\
& + 16384/27*F^{-3}*\sin x^2*\cos x*L6r*L8r*m83^{-2} + 16384/9*F^{-3}*\sin x^2*\cos x*L6r*L7r*m83^{-2} \\
& - 8192/81*F^{-3}*\sin x^2*\cos x*L5r*L8r*m83^{-2} - 8192/27*F^{-3}*\sin x^2*\cos x*L5r*L7r*m83^{-2} \\
\end{aligned}$$

$$\begin{aligned}
& 2 - 8192/27 * F^{-3} * \sin x^2 * \cos x * L4r * L8r * m83^{-2} - 8192/9 * F^{-3} * \sin x^2 * \cos x * L4r * L7r * m83^{-2} \\
& - 524288/27 * F^{-3} * \sin x^4 * \cos x * L8r^2 * m83^{-2} - 1048576/9 * F^{-3} * \sin x^4 * \cos x * L7r * L8r * m83^{-2} \\
& - 524288/3 * F^{-3} * \sin x^4 * \cos x * L7r^2 * m83^{-2} + 1/486 * C * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& - 1/486 * C * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& - 112/9 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-2} - 320/9 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-2} \\
& - 16/9 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-2} + 8/27 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-2} + 8/9 * \ln(1) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-2} \\
& + 256/9 * \ln(1) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-2} + 256/3 * \ln(1) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-2} - 1/216 * \ln(1)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& + 11/1728 * \ln(1) * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 1/108 * \ln(1) * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} \\
& - 23/6912 * \ln(1) * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} - 1/108 * \ln(1) * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& + 13/864 * \ln(1) * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 1/288 * \ln(1) * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& - 1/36 * \ln(1) * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} + 13/864 * \ln(1) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& + 23/6912 * \ln(1) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} + 13/864 * \ln(1) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& - 1/288 * \ln(1) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/36 * \ln(1) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} \\
& + 55/5184 * \ln(1) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 13/432 * \ln(1) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} \\
& + 1/108 * \ln(1) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} - 4520/243 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-2} \\
& - 4384/81 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-2} - 104/81 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-2} \\
& + 4/27 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-2} + 20/81 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-2} \\
& + 2672/81 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-2} + 7936/81 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-2} + 80/81 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L6r * m83^{-2} \\
& - 40/243 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L5r * m83^{-2} - 40/81 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L4r * m83^{-2} - 512/81 * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L8r * m83^{-2} \\
& - 512/27 * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L7r * m83^{-2} + 109/15552 * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 251/23328 * \ln(3)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} \\
& - 2/729 * \ln(3)^2 * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} + 1/243 * \ln(3)^2 * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-2} - 407/373248 * \ln(3) * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& + 431/31104 * \ln(3) * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 5/93312 * \ln(3) * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& - 1/36 * \ln(3) * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} - 1/2916 * \ln(3) * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} + 7/648 * \ln(3) * \ln(4) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} \\
& + 1/648 * \ln(3) * \ln(4) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-2} + 407/373248 * \ln(3) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} + 431/31104 * \ln(3) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& + 5/93312 * \ln(3) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/36 * \ln(3) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} + 1/2916 * \ln(3) * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& + 7/648 * \ln(3) * \ln(6) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} - 1/648 * \ln(3) * \ln(6) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-2} + 251/23328 * \ln(3) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& - 85/3888 * \ln(3) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} + 10/729 * \ln(3) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} - 2/243 * \ln(3) * \ln(8) * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-2} \\
& + 461/243 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} + 488/81 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} - 7/27 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L6r * m83^{-2} \\
& + 5/162 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L5r * m83^{-2} + 11/54 * \ln(4) * F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-2} - 1528/81^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-} \\
& 2^*\text{L8r}^*m83^{\wedge-2} - 512/9^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-2} + 8/27^*\ln(4)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-2} - 4/81^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-} \\
& 2^*\text{L5r}^*m83^{\wedge-2} - 4/27^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-2} + 664/243^*\ln(4)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-2} + 640/81^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*\text{L7r}^*m83^{\wedge-2} + 8/27^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-2} - 4/81^*\ln(4)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-2} - 4/27^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*\text{L4r}^*m83^{\wedge-2} + 640/27^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-2} + \\
& 640/9^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-2} - 128/27^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*\text{L8r}^*m83^{\wedge-2} - 128/9^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-2} - 1/1944^*\ln(4)^{\wedge 2}*\text{F}^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + 1/144^*\ln(4)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-} \\
& 2 - 1/243^*\ln(4)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 1/216^*\ln(4)^{\wedge 2}*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + 1/216^*\ln(4)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-} \\
& 2 + 11/1296^*\ln(4)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 1/108^*\ln(4)^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 473/373248^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-} \\
& 4*\text{m83}^{\wedge-2} + 329/31104^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - \\
& 113/31104^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 1/324^*\ln(4)^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + 19/2916^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-} \\
& 4*\text{m83}^{\wedge-2} - 7/648^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 1/648^*\ln(4)^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 7}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 461/243^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-} \\
& 2 - 488/81^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-2} + 7/27^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-2} - 5/162^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-} \\
& 2 - 11/54^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-2} - 1528/81^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-2} - 512/9^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-} \\
& 2*\text{L7r}^*m83^{\wedge-2} + 8/27^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-2} - 4/81^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-2} - 4/27^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-} \\
& 2*\text{L4r}^*m83^{\wedge-2} - 664/243^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-2} - \\
& 640/81^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-2} - 8/27^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-2} + 4/81^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 2*\text{L5r}^*m83^{\wedge-2} + 4/27^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-2} + \\
& 640/27^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-2} + 640/9^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-2} + 128/27^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-} \\
& 2*\text{L8r}^*m83^{\wedge-2} + 128/9^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-2} + \\
& 1/1944^*\ln(6)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + 1/144^*\ln(6)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-} \\
& 4*\text{m83}^{\wedge-2} + 1/243^*\ln(6)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 1/216^*\ln(6)^{\wedge 2}*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 1/216^*\ln(6)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-} \\
& 4*\text{m83}^{\wedge-2} + 473/373248^*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + \\
& 329/31104^*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + 113/31104^*\ln(6)^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 1/324^*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-} \\
& 4*\text{m83}^{\wedge-2} - 19/2916^*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 7/648^*\ln(6)^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + 1/648^*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 7}*\sqrt{3}^*\pi^{\wedge-} \\
& 4*\text{m83}^{\wedge-2} - 1288/81^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-2} - 1312/27^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-2} + 40/81^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-} \\
& 2*\text{L6r}^*m83^{\wedge-2} - 4/243^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-2} + 4/27^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-2} + 1424/81^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-} \\
& 2*\text{L8r}^*m83^{\wedge-2} + 4352/81^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-2} -
\end{aligned}$$

$$\begin{aligned}
& 80/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-2} + 40/243*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2} \\
& 3*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-2} + 40/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2} \\
& 2*L4r*m83^{-2} + 512/81*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-2} + 512/27*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2} \\
& L7r*m83^{-2} + 227/46656*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 7/23328*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} \\
& m83^{-2} - 8/729*\ln(8)^2*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 1/243*\ln(8)^2*F^{-3}*\sin x^8*\cos x*\pi^{-4} \\
& m83^{-2} + 7/1152/(mass(1))*\ln(1)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 7/1152/(mass(2))*\ln(1)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& m83^{-1} - 349/58320/(mass(3))*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 5/1458/(mass(3))*\ln(3)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} \\
& m83^{-1} + 5/2592/(mass(4))*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 31/5184/(mass(4))*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& m83^{-1} - 5/2592/(mass(4))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 5/2592/(mass(5))*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& m83^{-1} - 31/5184/(mass(5))*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& 4*m83^{-1} - 5/2592/(mass(5))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 5/2592/(mass(6))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& m83^{-1} - 31/5184/(mass(6))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& 4*m83^{-1} + 5/2592/(mass(6))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& m83^{-1} - 5/2592/(mass(7))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& 4*m83^{-1} - 31/5184/(mass(7))*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& m83^{-1} + 5/2592/(mass(7))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& m83^{-1} - 71/58320/(mass(8))*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& m83^{-1} - 5/1458/(mass(8))*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} \\
& m83^{-1}) \\
& + mpp2^3*mkp2^2 * (- 1/5832/(mass(3))*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& m83^{-2} + 1/5832/(mass(8))*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& m83^{-2}) \\
& + mpp2^4 * (- 253952/81*F^{-3}*\sin x^2*\cos x*L8r^2*m83^{-2} - 57344/3*F^{-3}*\sin x^2*\cos x*L7r*L8r*m83^{-2} \\
& - 262144/9*F^{-3}*\sin x^2*\cos x*L7r^2*m83^{-2} + 8192/27*F^{-3}*\sin x^2*\cos x*L6r*L8r*m83^{-2} + 8192/9*F^{-3}*\sin x^2*\cos x*L6r*L7r*m83^{-2} \\
& - 4096/81*F^{-3}*\sin x^2*\cos x*L5r*L8r*m83^{-2} - 4096/27*F^{-3}*\sin x^2*\cos x*L5r*L7r*m83^{-2} - 4096/27*F^{-3}*\sin x^2*\cos x*L4r*L8r*m83^{-2} \\
& - 4096/9*F^{-3}*\sin x^2*\cos x*L4r*L7r*m83^{-2} + 131072/27*F^{-3}*\sin x^4*\cos x*L8r^2*m83^{-2} + 262144/9*F^{-3}*\sin x^4*\cos x*L7r*L8r*m83^{-2} \\
& - 2 + 131072/3*F^{-3}*\sin x^4*\cos x*L7r^2*m83^{-2} + 1/972*C*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 1/972*C*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& m83^{-2} + 596/81*\ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} + 608/27*\ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} - 4/9*\ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-2} \\
& L6r*m83^{-2} + 2/27*\ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} + 2/9*\ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} - 128/9*\ln(1)*F^{-3}*\sin x^4*\cos x*\pi^{-2} \\
& L8r*m83^{-2} - 128/3*\ln(1)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} - 7/1728*\ln(1)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 1/96*\ln(1)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} \\
& m83^{-2} - 55/10368*\ln(1)*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 73/3888*\ln(1)*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 1/108*\ln(1)*\ln(3)*F^{-3}*\sin x^6*\cos x*\pi^{-4} \\
& m83^{-2} + 7/10368*\ln(1)*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 37/10368*\ln(1)*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 29/10368*\ln(1)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& m83^{-2} + 1/288*\ln(1)*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 1/288*\ln(1)*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 7/10368*\ln(1)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& m83^{-2} - 37/10368*\ln(1)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 29/10368*\ln(1)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/288*\ln(1)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4} \\
& m83^{-2} - 127/31104*\ln(1)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 127/31104*\ln(1)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2})
\end{aligned}$$

$$\begin{aligned}
& 3^{\sin x^2 \cos x \pi^4 m 83^{-2}} - 1/3888 \ln(1) \ln(8) F^{-3 \sin x^4 \cos x \pi^4 m 83^{-2}} + 1/108 \ln(1) \ln(8) F^{-3 \sin x^6 \cos x \pi^4 m 83^{-2}} + 1112/243 \ln(3) F^{-3 \sin x^2 \cos x \pi^2 L 8 r m 83^{-2}} + 1168/81 \ln(3) F^{-3 \sin x^2 \cos x \pi^2 L 7 r m 83^{-2}} - 40/81 \ln(3) F^{-3 \sin x^2 \cos x \pi^2 L 6 r m 83^{-2}} + 4/81 \ln(3) F^{-3 \sin x^2 \cos x \pi^2 L 5 r m 83^{-2}} + 4/81 \ln(3) F^{-3 \sin x^2 \cos x \pi^2 L 4 r m 83^{-2}} - 368/27 \ln(3) F^{-3 \sin x^4 \cos x \pi^2 L 8 r m 83^{-2}} - 3328/81 \ln(3) F^{-3 \sin x^4 \cos x \pi^2 L 7 r m 83^{-2}} + 16/81 \ln(3) F^{-3 \sin x^4 \cos x \pi^2 L 6 r m 83^{-2}} - 8/243 \ln(3) F^{-3 \sin x^4 \cos x \pi^2 L 5 r m 83^{-2}} - 8/81 \ln(3) F^{-3 \sin x^4 \cos x \pi^2 L 4 r m 83^{-2}} + 512/81 \ln(3) F^{-3 \sin x^6 \cos x \pi^2 L 8 r m 83^{-2}} + 512/27 \ln(3) F^{-3 \sin x^6 \cos x \pi^2 L 7 r m 83^{-2}} - 23/15552 \ln(3)^2 F^{-3 \sin x^2 \cos x \pi^4 m 83^{-2}} + 191/23328 \ln(3)^2 F^{-3 \sin x^4 \cos x \pi^4 m 83^{-2}} - 11/1458 \ln(3)^2 F^{-3 \sin x^6 \cos x \pi^4 m 83^{-2}} + 1/486 \ln(3)^2 F^{-3 \sin x^8 \cos x \pi^4 m 83^{-2}} + 55/186624 \ln(3) \ln(4) F^{-3 \sin x \sqrt{3} \pi^4 m 83^{-2}} - 139/62208 \ln(3) \ln(4) F^{-3 \sin x^2 \cos x \pi^4 m 83^{-2}} + 361/186624 \ln(3) \ln(4) F^{-3 \sin x^3 \sqrt{3} \pi^4 m 83^{-2}} + 1/243 \ln(3) \ln(4) F^{-3 \sin x^4 \cos x \pi^4 m 83^{-2}} - 11/2916 \ln(3) \ln(4) F^{-3 \sin x^5 \sqrt{3} \pi^4 m 83^{-2}} - 1/648 \ln(3) \ln(4) F^{-3 \sin x^6 \cos x \pi^4 m 83^{-2}} + 1/648 \ln(3) \ln(4) F^{-3 \sin x^7 \sqrt{3} \pi^4 m 83^{-2}} - 55/186624 \ln(3) \ln(6) F^{-3 \sin x \sqrt{3} \pi^4 m 83^{-2}} - 139/62208 \ln(3) \ln(6) F^{-3 \sin x^2 \cos x \pi^4 m 83^{-2}} - 361/186624 \ln(3) \ln(6) F^{-3 \sin x^3 \sqrt{3} \pi^4 m 83^{-2}} + 1/243 \ln(3) \ln(6) F^{-3 \sin x^4 \cos x \pi^4 m 83^{-2}} + 11/2916 \ln(3) \ln(6) F^{-3 \sin x^5 \sqrt{3} \pi^4 m 83^{-2}} - 1/648 \ln(3) \ln(6) F^{-3 \sin x^6 \cos x \pi^4 m 83^{-2}} + 1/648 \ln(3) \ln(6) F^{-3 \sin x^7 \sqrt{3} \pi^4 m 83^{-2}} - 65/23328 \ln(3) \ln(8) F^{-3 \sin x^2 \cos x \pi^4 m 83^{-2}} + 5/729 \ln(3) \ln(8) F^{-3 \sin x^6 \cos x \pi^4 m 83^{-2}} - 1/243 \ln(3) \ln(8) F^{-3 \sin x^8 \cos x \pi^4 m 83^{-2}} - 38/243 \ln(4) F^{-3 \sin x \sqrt{3} \pi^2 L 8 r m 83^{-2}} - 32/81 \ln(4) F^{-3 \sin x \sqrt{3} \pi^2 L 7 r m 83^{-2}} - 2/27 \ln(4) F^{-3 \sin x \sqrt{3} \pi^2 L 6 r m 83^{-2}} + 1/81 \ln(4) F^{-3 \sin x \sqrt{3} \pi^2 L 5 r m 83^{-2}} + 1/27 \ln(4) F^{-3 \sin x \sqrt{3} \pi^2 L 4 r m 83^{-2}} + 74/27 \ln(4) F^{-3 \sin x^2 \cos x \pi^2 L 8 r m 83^{-2}} + 224/27 \ln(4) F^{-3 \sin x^2 \cos x \pi^2 L 7 r m 83^{-2}} - 2/27 \ln(4) F^{-3 \sin x^2 \cos x \pi^2 L 6 r m 83^{-2}} + 1/81 \ln(4) F^{-3 \sin x^2 \cos x \pi^2 L 5 r m 83^{-2}} + 1/27 \ln(4) F^{-3 \sin x^2 \cos x \pi^2 L 4 r m 83^{-2}} - 538/243 \ln(4) F^{-3 \sin x^3 \sqrt{3} \pi^2 L 8 r m 83^{-2}} - 544/81 \ln(4) F^{-3 \sin x^3 \sqrt{3} \pi^2 L 7 r m 83^{-2}} + 2/27 \ln(4) F^{-3 \sin x^3 \sqrt{3} \pi^2 L 6 r m 83^{-2}} - 1/81 \ln(4) F^{-3 \sin x^3 \sqrt{3} \pi^2 L 5 r m 83^{-2}} - 1/27 \ln(4) F^{-3 \sin x^3 \sqrt{3} \pi^2 L 4 r m 83^{-2}} - 64/27 \ln(4) F^{-3 \sin x^4 \cos x \pi^2 L 8 r m 83^{-2}} - 64/9 \ln(4) F^{-3 \sin x^4 \cos x \pi^2 L 7 r m 83^{-2}} + 64/27 \ln(4) F^{-3 \sin x^5 \sqrt{3} \pi^2 L 8 r m 83^{-2}} + 64/9 \ln(4) F^{-3 \sin x^5 \sqrt{3} \pi^2 L 7 r m 83^{-2}} - 1/3888 \ln(4)^2 F^{-3 \sin x \sqrt{3} \pi^4 m 83^{-2}} - 1/3456 \ln(4)^2 F^{-3 \sin x^2 \cos x \pi^4 m 83^{-2}} + 13/15552 \ln(4)^2 F^{-3 \sin x^3 \sqrt{3} \pi^4 m 83^{-2}} - 1/1728 \ln(4)^2 F^{-3 \sin x^4 \cos x \pi^4 m 83^{-2}} - 1/1728 \ln(4)^2 F^{-3 \sin x^5 \sqrt{3} \pi^4 m 83^{-2}} - 7/5184 \ln(4) \ln(6) F^{-3 \sin x^2 \cos x \pi^4 m 83^{-2}} + 1/432 \ln(4) \ln(6) F^{-3 \sin x^4 \cos x \pi^4 m 83^{-2}} - 11/186624 \ln(4) \ln(8) F^{-3 \sin x \sqrt{3} \pi^4 m 83^{-2}} - 1/768 \ln(4) \ln(8) F^{-3 \sin x^2 \cos x \pi^4 m 83^{-2}} + 19/20736 \ln(4) \ln(8) F^{-3 \sin x^3 \sqrt{3} \pi^4 m 83^{-2}} - 1/972 \ln(4) \ln(8) F^{-3 \sin x^4 \cos x \pi^4 m 83^{-2}}
\end{aligned}$$

$$\begin{aligned}
& 4^*m83^{\wedge}-2 + 1/1458*\ln(4)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}5*\sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-2 + 1/648*\ln(4)*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}6*\cosx^*pi^{\wedge}-4*m83^{\wedge}-2 - 1/648*\ln(4)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}7*\sqrt{3}*pi^{\wedge}- \\
& 4*m83^{\wedge}-2 + 38/243*\ln(6)*F^{\wedge}-3*\sinx^*sqrt{3}*pi^{\wedge}-2*L8r*m83^{\wedge}-2 + 32/81*\ln(6)*F^{\wedge}- \\
& 3*\sinx^*sqrt{3}*pi^{\wedge}-2*L7r*m83^{\wedge}-2 + 2/27*\ln(6)*F^{\wedge}-3*\sinx^*sqrt{3}*pi^{\wedge}-2*L6r*m83^{\wedge}- \\
& 2 - 1/81*\ln(6)*F^{\wedge}-3*\sinx^*sqrt{3}*pi^{\wedge}-2*L5r*m83^{\wedge}-2 - 1/27*\ln(6)*F^{\wedge}-3*\sinx^*sqrt{3}*pi^{\wedge}- \\
& 2*L4r*m83^{\wedge}-2 + 74/27*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-2*L8r*m83^{\wedge}-2 + \\
& 224/27*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-2*L7r*m83^{\wedge}-2 - 2/27*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}- \\
& 2*L6r*m83^{\wedge}-2 + 1/81*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-2*L5r*m83^{\wedge}-2 + 1/27*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-2*L4r*m83^{\wedge}-2 + 538/243*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*sqrt{3}*pi^{\wedge}- \\
& 2*L8r*m83^{\wedge}-2 + 544/81*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*sqrt{3}*pi^{\wedge}-2*L7r*m83^{\wedge}-2 - \\
& 2/27*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*sqrt{3}*pi^{\wedge}-2*L6r*m83^{\wedge}-2 + 1/81*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*sqrt{3}*pi^{\wedge}- \\
& 2*L5r*m83^{\wedge}-2 + 1/27*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}3*sqrt{3}*pi^{\wedge}-2*L4r*m83^{\wedge}-2 - 64/27*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}-2*L8r*m83^{\wedge}-2 - 64/9*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}- \\
& 2*L7r*m83^{\wedge}-2 - 64/27*\ln(6)*F^{\wedge}-3*\sinx^{\wedge}5*sqrt{3}*pi^{\wedge}-2*L8r*m83^{\wedge}-2 - 64/9*\ln(6)*F^{\wedge}- \\
& 3*\sinx^{\wedge}5*sqrt{3}*pi^{\wedge}-2*L7r*m83^{\wedge}-2 + 1/3888*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^*sqrt{3}*pi^{\wedge}- \\
& 4*m83^{\wedge}-2 - 1/3456*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-4*m83^{\wedge}-2 - 13/15552*\ln(6)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^{\wedge}3*sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-2 - 1/1728*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}-4*m83^{\wedge}- \\
& 2 + 1/1728*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}5*sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-2 + 11/186624*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\sinx^*sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-2 - 1/768*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-4*m83^{\wedge}- \\
& 2 - 19/20736*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}3*sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-2 - 1/972*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}-4*m83^{\wedge}-2 - 1/1458*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}5*sqrt{3}*pi^{\wedge}- \\
& 4*m83^{\wedge}-2 + 1/648*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}6*\cosx^*pi^{\wedge}-4*m83^{\wedge}-2 + 1/648*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}7*sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-2 + 280/81*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-2*L8r*m83^{\wedge}- \\
& 2 + 272/27*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-2*L7r*m83^{\wedge}-2 + 8/81*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-2*L6r*m83^{\wedge}-2 + 4/243*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}- \\
& 2*L5r*m83^{\wedge}-2 + 4/27*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-2*L4r*m83^{\wedge}-2 + 80/81*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}-2*L8r*m83^{\wedge}-2 + 256/81*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}- \\
& 2*L7r*m83^{\wedge}-2 - 16/81*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}-2*L6r*m83^{\wedge}-2 + 8/243*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}-2*L5r*m83^{\wedge}-2 + 8/81*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}- \\
& 2*L4r*m83^{\wedge}-2 - 512/81*\ln(8)*F^{\wedge}-3*\sinx^{\wedge}6*\cosx^*pi^{\wedge}-2*L8r*m83^{\wedge}-2 - 512/27*\ln(8)*F^{\wedge}- \\
& 3*\sinx^{\wedge}6*\cosx^*pi^{\wedge}-2*L7r*m83^{\wedge}-2 - 41/46656*\ln(8)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}- \\
& 4*m83^{\wedge}-2 - 29/23328*\ln(8)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}-4*m83^{\wedge}-2 + 1/1458*\ln(8)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^{\wedge}6*\cosx^*pi^{\wedge}-4*m83^{\wedge}-2 + 1/486*\ln(8)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}8*\cosx^*pi^{\wedge}- \\
& 4*m83^{\wedge}-2 - 47/9216/(mass(1))*\ln(1)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-4*m83^{\wedge}-1 - \\
& 47/9216/(mass(2))*\ln(1)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-4*m83^{\wedge}-1 - 289/116640/(mass(3))*\ln(3)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-4*m83^{\wedge}-1 + 1/1458/(mass(3))*\ln(3)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}4*\cosx^*pi^{\wedge}- \\
& 4*m83^{\wedge}-1 + 1/6144/(mass(4))*\ln(4)^{\wedge}2*F^{\wedge}-3*\sinx^*sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-1 + \\
& 179/165888/(mass(4))*\ln(4)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-4*m83^{\wedge}-1 - 1/6144/(mass(4))*\ln(4)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^{\wedge}3*sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-1 + 1/6144/(mass(5))*\ln(4)^{\wedge}2*F^{\wedge}-3*\sinx^*sqrt{3}*pi^{\wedge}- \\
& 4*m83^{\wedge}-1 + 179/165888/(mass(5))*\ln(4)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-4*m83^{\wedge}-1 - \\
& 1/6144/(mass(5))*\ln(4)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}3*sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-1 - 1/6144/(mass(6))*\ln(6)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^*sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-1 + 179/165888/(mass(6))*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}- \\
& 4*m83^{\wedge}-1 + 1/6144/(mass(6))*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}3*sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-1 - \\
& 1/6144/(mass(7))*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^*sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-1 + 179/165888/(mass(7))*\ln(6)^{\wedge}2*F^{\wedge}- \\
& 3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-4*m83^{\wedge}-1 + 1/6144/(mass(7))*\ln(6)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}3*sqrt{3}*pi^{\wedge}- \\
& 4*m83^{\wedge}-1 - 131/116640/(mass(8))*\ln(8)^{\wedge}2*F^{\wedge}-3*\sinx^{\wedge}2*\cosx^*pi^{\wedge}-4*m83^{\wedge}-1 -
\end{aligned}$$

$$\begin{aligned}
& 1/1458/(\text{mass}(8))^{\wedge}2 * F^{\wedge}-3 * \sin x^{\wedge}4 * \cos x * \pi^{\wedge}-4 * m83^{\wedge}-1) \\
& + \text{mpp}2^{\wedge}4 * \text{mkp}2 * (- 1/1458/(\text{mass}(3))^{\wedge} \ln(3)^{\wedge}2 * F^{\wedge}-3 * \sin x^{\wedge}2 * \cos x * \pi^{\wedge}- \\
& 4 * m83^{\wedge}-2 + 1/1458/(\text{mass}(8))^{\wedge} \ln(8)^{\wedge}2 * F^{\wedge}-3 * \sin x^{\wedge}2 * \cos x * \pi^{\wedge}-4 * m83^{\wedge}-2) \\
& + \text{mpp}2^{\wedge}5 * (- 1/5832/(\text{mass}(3))^{\wedge} \ln(3)^{\wedge}2 * F^{\wedge}-3 * \sin x^{\wedge}2 * \cos x * \pi^{\wedge}-4 * m83^{\wedge}-2 + \\
& 1/5832/(\text{mass}(8))^{\wedge} \ln(8)^{\wedge}2 * F^{\wedge}-3 * \sin x^{\wedge}2 * \cos x * \pi^{\wedge}-4 * m83^{\wedge}-2) \\
& + \text{mud} * (+ 1/9 * \text{Hb}(1,2,3, \text{plext. plext}) * F^{\wedge}-3 * \sin x * \sqrt{3} + 14/9 * \text{Hb}(1,2,3, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}2 * \cos x - 4/3 * \text{Hb}(1,2,3, \text{plext. plext}) * F^{\wedge}-3 * \sin x^{\wedge}4 * \cos x + 1/3 * \text{Hb}(1,2,8, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \sin x * \sqrt{3} - 2/3 * \text{Hb}(1,2,8, \text{plext. plext}) * F^{\wedge}-3 * \sin x^{\wedge}2 * \cos x + 4/3 * \text{Hb}(1,2,8, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}4 * \cos x + 1/6 * \text{Hb}(1,4,6, \text{qext. qext}) * F^{\wedge}-3 * \cos x + 1/12 * \text{Hb}(1,4,6, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \sin x * \sqrt{3} - 1/6 * \text{Hb}(1,5,6, \text{plext. plext}) * F^{\wedge}-3 * \cos x - 4/9 * \text{Hb}(1,5,6, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \sin x * \sqrt{3} + 4/9 * \text{Hb}(1,5,6, \text{plext. plext}) * F^{\wedge}-3 * \sin x^{\wedge}3 * \sqrt{3} + 1/6 * \text{Hb}(1,5,7, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \cos x + 1/12 * \text{Hb}(1,5,7, \text{qext. qext}) * F^{\wedge}-3 * \sin x * \sqrt{3} - 1/6 * \text{Hb}(2,4,7, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \cos x - 4/9 * \text{Hb}(2,4,7, \text{plext. plext}) * F^{\wedge}-3 * \sin x * \sqrt{3} + 4/9 * \text{Hb}(2,4,7, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}3 * \sqrt{3} + 1/6 * \text{Hb}(2,4,7, \text{qext. qext}) * F^{\wedge}-3 * \cos x + 1/12 * \text{Hb}(2,4,7, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \sin x * \sqrt{3} + 1/6 * \text{Hb}(2,5,6, \text{qext. qext}) * F^{\wedge}-3 * \cos x + 1/12 * \text{Hb}(2,5,6, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \sin x * \sqrt{3} + 1/24 * \text{Hb}(3,1,2, \text{plext. plext}) * F^{\wedge}-3 * \sin x * \sqrt{3} - 1/12 * \text{Hb}(3,1,2, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}2 * \cos x + 1/6 * \text{Hb}(3,1,2, \text{plext. plext}) * F^{\wedge}-3 * \sin x^{\wedge}4 * \cos x + 1/96 * \text{Hb}(3,4,4, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \cos x + 1/288 * \text{Hb}(3,4,4, \text{qext. qext}) * F^{\wedge}-3 * \sin x * \sqrt{3} + 1/9 * \text{Hb}(3,4,4, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}2 * \cos x - 1/12 * \text{Hb}(3,4,4, \text{qext. qext}) * F^{\wedge}-3 * \sin x^{\wedge}3 * \sqrt{3} - 1/36 * \text{Hb}(3,4,5, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \cos x - 23/864 * \text{Hb}(3,4,5, \text{plext. plext}) * F^{\wedge}-3 * \sin x * \sqrt{3} - 13/72 * \text{Hb}(3,4,5, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}2 * \cos x + 7/36 * \text{Hb}(3,4,5, \text{plext. plext}) * F^{\wedge}-3 * \sin x^{\wedge}3 * \sqrt{3} + 5/36 * \text{Hb}(3,4,5, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}4 * \cos x - 17/108 * \text{Hb}(3,4,5, \text{plext. plext}) * F^{\wedge}-3 * \sin x^{\wedge}5 * \sqrt{3} + 1/96 * \text{Hb}(3,5,5, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \cos x + 1/288 * \text{Hb}(3,5,5, \text{qext. qext}) * F^{\wedge}-3 * \sin x * \sqrt{3} + 1/9 * \text{Hb}(3,5,5, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}2 * \cos x - 1/12 * \text{Hb}(3,5,5, \text{qext. qext}) * F^{\wedge}-3 * \sin x^{\wedge}3 * \sqrt{3} - 1/96 * \text{Hb}(3,6,6, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \cos x - 11/288 * \text{Hb}(3,6,6, \text{qext. qext}) * F^{\wedge}-3 * \sin x * \sqrt{3} + 1/9 * \text{Hb}(3,6,6, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}2 * \cos x + 1/12 * \text{Hb}(3,6,6, \text{qext. qext}) * F^{\wedge}-3 * \sin x^{\wedge}3 * \sqrt{3} + 1/36 * \text{Hb}(3,6,7, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \cos x + 41/864 * \text{Hb}(3,6,7, \text{plext. plext}) * F^{\wedge}-3 * \sin x * \sqrt{3} - 13/72 * \text{Hb}(3,6,7, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}2 * \cos x - 7/36 * \text{Hb}(3,6,7, \text{plext. plext}) * F^{\wedge}-3 * \sin x^{\wedge}3 * \sqrt{3} + 5/36 * \text{Hb}(3,6,7, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}4 * \cos x + 17/108 * \text{Hb}(3,6,7, \text{plext. plext}) * F^{\wedge}-3 * \sin x^{\wedge}5 * \sqrt{3} - 1/96 * \text{Hb}(3,7,7, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \cos x - 11/288 * \text{Hb}(3,7,7, \text{qext. qext}) * F^{\wedge}-3 * \sin x * \sqrt{3} + 1/9 * \text{Hb}(3,7,7, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}2 * \cos x + 1/12 * \text{Hb}(3,7,7, \text{qext. qext}) * F^{\wedge}-3 * \sin x^{\wedge}3 * \sqrt{3} + 1/32 * \text{Hb}(4,2,7, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \cos x - 5/96 * \text{Hb}(4,2,7, \text{plext. plext}) * F^{\wedge}-3 * \sin x * \sqrt{3} + 1/12 * \text{Hb}(4,2,7, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}3 * \sqrt{3} - 1/8 * \text{Hb}(4,4,8, \text{qext. qext}) * F^{\wedge}-3 * \cos x - 11/72 * \text{Hb}(4,4,8, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \sin x * \sqrt{3} + 2/9 * \text{Hb}(4,4,8, \text{qext. qext}) * F^{\wedge}-3 * \sin x^{\wedge}2 * \cos x - 1/9 * \text{Hb}(4,4,8, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}3 * \sqrt{3} + 4/9 * \text{Hb}(4,5,8, \text{plext. plext}) * F^{\wedge}-3 * \cos x - 35/108 * \text{Hb}(4,5,8, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \sin x * \sqrt{3} - 5/9 * \text{Hb}(4,5,8, \text{plext. plext}) * F^{\wedge}-3 * \sin x^{\wedge}2 * \cos x + 10/9 * \text{Hb}(4,5,8, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}3 * \sqrt{3} + 2/9 * \text{Hb}(4,5,8, \text{plext. plext}) * F^{\wedge}-3 * \sin x^{\wedge}4 * \cos x - 10/27 * \text{Hb}(4,5,8, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}5 * \sqrt{3} + 1/32 * \text{Hb}(5,1,6, \text{plext. plext}) * F^{\wedge}-3 * \cos x - 5/96 * \text{Hb}(5,1,6, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \sin x * \sqrt{3} + 1/12 * \text{Hb}(5,1,6, \text{plext. plext}) * F^{\wedge}-3 * \sin x^{\wedge}3 * \sqrt{3} - 1/8 * \text{Hb}(5,5,8, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \cos x - 11/72 * \text{Hb}(5,5,8, \text{qext. qext}) * F^{\wedge}-3 * \sin x * \sqrt{3} + 2/9 * \text{Hb}(5,5,8, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \sin x^{\wedge}2 * \cos x - 1/9 * \text{Hb}(5,5,8, \text{qext. qext}) * F^{\wedge}-3 * \sin x^{\wedge}3 * \sqrt{3} - 1/16 * \text{Hb}(6,1,4, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \sin x * \sqrt{3} - 1/32 * \text{Hb}(6,1,5, \text{plext. plext}) * F^{\wedge}-3 * \cos x + 11/96 * \text{Hb}(6,1,5, \text{plext. plext}) * F^{\wedge}- \\
& 3 * \sin x * \sqrt{3} - 1/12 * \text{Hb}(6,1,5, \text{plext. plext}) * F^{\wedge}-3 * \sin x^{\wedge}3 * \sqrt{3} - 1/16 * \text{Hb}(6,2,5, \text{qext. qext}) * F^{\wedge}- \\
& 3 * \sin x * \sqrt{3} - 25/24 * \text{Hb}(6,6,8, \text{qext. qext}) * F^{\wedge}-3 * \cos x - 3/8 * \text{Hb}(6,6,8, \text{qext. qext}) * F^{\wedge}-
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\sqrt{3} + 2/9^*\text{Hb}(6,6,8,\text{qext.qext})^*\text{F}^{-3^*}\sin x^2^*\cos x + 1/9^*\text{Hb}(6,6,8,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\sin x^3^*\sqrt{3} + 17/9^*\text{Hb}(6,7,8,\text{plext.plext})^*\text{F}^{-3^*}\cos x + 125/108^*\text{Hb}(6,7,8,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^*\sqrt{3} - 5/9^*\text{Hb}(6,7,8,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2^*\cos x - 10/9^*\text{Hb}(6,7,8,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^3^*\sqrt{3} + 2/9^*\text{Hb}(6,7,8,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4^*\cos x + 10/27^*\text{Hb}(6,7,8,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^5^*\sqrt{3} - 1/16^*\text{Hb}(7,1,5,\text{qext.qext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} - 1/32^*\text{Hb}(7,2,4,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\cos x + 11/96^*\text{Hb}(7,2,4,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} - 1/12^*\text{Hb}(7,2,4,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^3^*\sqrt{3} - 1/16^*\text{Hb}(7,2,4,\text{qext.qext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} - 25/24^*\text{Hb}(7,7,8,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\cos x - 3/8^*\text{Hb}(7,7,8,\text{qext.qext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} + 2/9^*\text{Hb}(7,7,8,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\sin x^2^*\cos x + 1/9^*\text{Hb}(7,7,8,\text{qext.qext})^*\text{F}^{-3^*}\sin x^3^*\sqrt{3} - 1/24^*\text{Hb}(8,1,2,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^*\sqrt{3} + 1/12^*\text{Hb}(8,1,2,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2^*\cos x - 1/6^*\text{Hb}(8,1,2,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^4^*\cos x + 1/32^*\text{Hb}(8,4,4,\text{qext.qext})^*\text{F}^{-3^*}\cos x + 1/96^*\text{Hb}(8,4,4,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\sin x^*\sqrt{3} + 1/12^*\text{Hb}(8,4,4,\text{qext.qext})^*\text{F}^{-3^*}\sin x^3^*\sqrt{3} - 1/16^*\text{Hb}(8,4,5,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\cos x + 3/32^*\text{Hb}(8,4,5,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} - 1/24^*\text{Hb}(8,4,5,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^2^*\cos x - 1/4^*\text{Hb}(8,4,5,\text{plext.plext})^*\text{F}^{-3^*}\sin x^3^*\sqrt{3} + 1/12^*\text{Hb}(8,4,5,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^4^*\cos x + 1/12^*\text{Hb}(8,4,5,\text{plext.plext})^*\text{F}^{-3^*}\sin x^5^*\sqrt{3} + 1/32^*\text{Hb}(8,5,5,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\cos x + 1/96^*\text{Hb}(8,5,5,\text{qext.qext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} + 1/12^*\text{Hb}(8,5,5,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\sin x^3^*\sqrt{3} + 11/32^*\text{Hb}(8,6,6,\text{qext.qext})^*\text{F}^{-3^*}\cos x + 17/96^*\text{Hb}(8,6,6,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/12^*\text{Hb}(8,6,6,\text{qext.qext})^*\text{F}^{-3^*}\sin x^3^*\sqrt{3} - 5/16^*\text{Hb}(8,6,7,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\cos x - 23/96^*\text{Hb}(8,6,7,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} - 1/24^*\text{Hb}(8,6,7,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^2^*\cos x + 1/4^*\text{Hb}(8,6,7,\text{plext.plext})^*\text{F}^{-3^*}\sin x^3^*\sqrt{3} + 1/12^*\text{Hb}(8,6,7,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^4^*\cos x - 1/12^*\text{Hb}(8,6,7,\text{plext.plext})^*\text{F}^{-3^*}\sin x^5^*\sqrt{3} + 11/32^*\text{Hb}(8,7,7,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\cos x + 17/96^*\text{Hb}(8,7,7,\text{qext.qext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} - 1/12^*\text{Hb}(8,7,7,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\sin x^3^*\sqrt{3} + 3/8^*\text{H21b}(1,4,6,\text{qext.qext})^*\text{F}^{-3^*}\cos x + 3/16^*\text{H21b}(1,4,6,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\sin x^*\sqrt{3} - 3/4^*\text{H21b}(1,5,6,\text{plext.plext})^*\text{F}^{-3^*}\cos x - 1/8^*\text{H21b}(1,5,6,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^*\sqrt{3} + 1/2^*\text{H21b}(1,5,6,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2^*\cos x + 3/8^*\text{H21b}(1,5,7,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\cos x + 3/16^*\text{H21b}(1,5,7,\text{qext.qext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} - 3/4^*\text{H21b}(2,4,7,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\cos x - 1/8^*\text{H21b}(2,4,7,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} + 1/2^*\text{H21b}(2,4,7,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^2^*\cos x + 3/8^*\text{H21b}(2,4,7,\text{qext.qext})^*\text{F}^{-3^*}\cos x + 3/16^*\text{H21b}(2,4,7,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\sin x^*\sqrt{3} + 3/8^*\text{H21b}(2,5,6,\text{qext.qext})^*\text{F}^{-3^*}\cos x + 3/16^*\text{H21b}(2,5,6,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/4^*\text{H21b}(3,1,2,\text{plext.plext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} - 3/2^*\text{H21b}(3,1,2,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^2^*\cos x + \text{H21b}(3,1,2,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4^*\cos x + 9/32^*\text{H21b}(3,4,4,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\cos x + 11/32^*\text{H21b}(3,4,4,\text{qext.qext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} - 1/4^*\text{H21b}(3,4,4,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\sin x^3^*\sqrt{3} - 3/8^*\text{H21b}(3,4,5,\text{plext.plext})^*\text{F}^{-3^*}\cos x - 9/16^*\text{H21b}(3,4,5,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^*\sqrt{3} + 3/4^*\text{H21b}(3,4,5,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2^*\cos x + \text{H21b}(3,4,5,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^3^*\sqrt{3} - 1/2^*\text{H21b}(3,4,5,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4^*\cos x - 1/2^*\text{H21b}(3,4,5,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^5^*\sqrt{3} + 9/32^*\text{H21b}(3,5,5,\text{qext.qext})^*\text{F}^{-3^*}\cos x + 11/32^*\text{H21b}(3,5,5,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/4^*\text{H21b}(3,5,5,\text{qext.qext})^*\text{F}^{-3^*}\sin x^3^*\sqrt{3} + 3/32^*\text{H21b}(3,6,6,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\cos x - 5/32^*\text{H21b}(3,6,6,\text{qext.qext})^*\text{F}^{-3^*}\sin x^*\sqrt{3} + 1/4^*\text{H21b}(3,6,6,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\sin x^3^*\sqrt{3} - 3/8^*\text{H21b}(3,6,7,\text{plext.plext})^*\text{F}^{-3^*}\cos x + 7/16^*\text{H21b}(3,6,7,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^*\sqrt{3} + 3/4^*\text{H21b}(3,6,7,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2^*\cos x - \text{H21b}(3,6,7,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^3^*\sqrt{3} - 1/2^*\text{H21b}(3,6,7,\text{plext.plext})^*\text{F}^{-3^*}\sin x^4^*\cos x + 1/2^*\text{H21b}(3,6,7,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^5^*\sqrt{3} + 3/32^*\text{H21b}(3,7,7,\text{qext.qext})^*\text{F}^{-3^*}\cos x - 5/32^*\text{H21b}(3,7,7,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\sin x^*\sqrt{3} + 1/4^*\text{H21b}(3,7,7,\text{qext.qext})^*\text{F}^{-3^*}\sin x^3^*\sqrt{3} + 3/16^*\text{H21b}(4,1,6,\text{qext.qext})^*\text{F}^{-} \\
& 3^*\cos x - 3/8^*\text{H21b}(4,2,7,\text{plext.plext})^*\text{F}^{-3^*}\cos x - 3/8^*\text{H21b}(4,2,7,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/4^*\text{H21b}(4,2,7,\text{plext.plext})^*\text{F}^{-3^*}\sin x^2^*\cos x + 1/4^*\text{H21b}(4,2,7,\text{plext.plext})^*\text{F}^{-} \\
& 3^*\sin x^3^*\sqrt{3} + 3/16^*\text{H21b}(4,2,7,\text{qext.qext})^*\text{F}^{-3^*}\cos x - 3/8^*\text{H21b}(5,1,6,\text{plext.plext})^*\text{F}^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\cos x - 3/8^*H21b(5,1,6,plext.plext)^*F^{-3^*}\sin x^*\sqrt{3} - 1/4^*H21b(5,1,6,plext.plext)^*F^{-} \\
& 3^*\sin x^2^*\cos x + 1/4^*H21b(5,1,6,plext.plext)^*F^{-3^*}\sin x^3^*\sqrt{3} + 3/16^*H21b(5,1,7,qext.qext)^*F^{-} \\
& 3^*\cos x + 3/16^*H21b(5,2,6,qext.qext)^*F^{-3^*}\cos x - 3/16^*H21b(6,1,4,qext.qext)^*F^{-} \\
& 3^*\cos x + 3/8^*H21b(6,1,5,plext.plext)^*F^{-3^*}\cos x + 1/8^*H21b(6,1,5,plext.plext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/4^*H21b(6,1,5,plext.plext)^*F^{-3^*}\sin x^2^*\cos x - 1/4^*H21b(6,1,5,plext.plext)^*F^{-} \\
& 3^*\sin x^3^*\sqrt{3} - 3/16^*H21b(6,2,5,qext.qext)^*F^{-3^*}\cos x - 3/16^*H21b(7,1,5,qext.qext)^*F^{-} \\
& 3^*\cos x + 3/8^*H21b(7,2,4,plext.plext)^*F^{-3^*}\cos x + 1/8^*H21b(7,2,4,plext.plext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/4^*H21b(7,2,4,plext.plext)^*F^{-3^*}\sin x^2^*\cos x - 1/4^*H21b(7,2,4,plext.plext)^*F^{-} \\
& 3^*\sin x^3^*\sqrt{3} - 3/16^*H21b(7,2,4,qext.qext)^*F^{-3^*}\cos x - 1/4^*H21b(8,1,2,plext.plext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 1/2^*H21b(8,1,2,plext.plext)^*F^{-3^*}\sin x^2^*\cos x - H21b(8,1,2,plext.plext)^*F^{-} \\
& 3^*\sin x^4^*\cos x + 3/32^*H21b(8,4,4,qext.qext)^*F^{-3^*}\cos x + 1/32^*H21b(8,4,4,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 1/4^*H21b(8,4,4,qext.qext)^*F^{-3^*}\sin x^3^*\sqrt{3} - 3/8^*H21b(8,4,5,plext.plext)^*F^{-} \\
& 3^*\cos x + 9/16^*H21b(8,4,5,plext.plext)^*F^{-3^*}\sin x^*\sqrt{3} - 1/4^*H21b(8,4,5,plext.plext)^*F^{-} \\
& 3^*\sin x^2^*\cos x - 3/2^*H21b(8,4,5,plext.plext)^*F^{-3^*}\sin x^3^*\sqrt{3} + 1/2^*H21b(8,4,5,plext.plext)^*F^{-} \\
& 3^*\sin x^4^*\cos x + 1/2^*H21b(8,4,5,plext.plext)^*F^{-3^*}\sin x^5^*\sqrt{3} + 3/32^*H21b(8,5,5,qext.qext)^*F^{-} \\
& 3^*\cos x + 1/32^*H21b(8,5,5,qext.qext)^*F^{-3^*}\sin x^*\sqrt{3} + 1/4^*H21b(8,5,5,qext.qext)^*F^{-} \\
& 3^*\sin x^3^*\sqrt{3} + 33/32^*H21b(8,6,6,qext.qext)^*F^{-3^*}\cos x + 17/32^*H21b(8,6,6,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/4^*H21b(8,6,6,qext.qext)^*F^{-3^*}\sin x^3^*\sqrt{3} - 15/8^*H21b(8,6,7,plext.plext)^*F^{-} \\
& 3^*\cos x - 23/16^*H21b(8,6,7,plext.plext)^*F^{-3^*}\sin x^*\sqrt{3} - 1/4^*H21b(8,6,7,plext.plext)^*F^{-} \\
& 3^*\sin x^2^*\cos x + 3/2^*H21b(8,6,7,plext.plext)^*F^{-3^*}\sin x^3^*\sqrt{3} + 1/2^*H21b(8,6,7,plext.plext)^*F^{-} \\
& 3^*\sin x^4^*\cos x - 1/2^*H21b(8,6,7,plext.plext)^*F^{-3^*}\sin x^5^*\sqrt{3} + 33/32^*H21b(8,7,7,qext.qext)^*F^{-} \\
& 3^*\cos x + 17/32^*H21b(8,7,7,qext.qext)^*F^{-3^*}\sin x^*\sqrt{3} - 1/4^*H21b(8,7,7,qext.qext)^*F^{-} \\
& 3^*\sin x^3^*\sqrt{3} - 1/9^*HH1b(1,2,3,plext.plext)^*F^{-3^*}\sin x^*\sqrt{3} - 2^*HH1b(1,2,3,plext.plext)^*F^{-} \\
& 3^*\sin x^2^*\cos x + 16/9^*HH1b(1,2,3,plext.plext)^*F^{-3^*}\sin x^4^*\cos x - 4/9^*HH1b(1,2,8,plext.plext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 8/9^*HH1b(1,2,8,plext.plext)^*F^{-3^*}\sin x^2^*\cos x - 16/9^*HH1b(1,2,8,plext.plext)^*F^{-} \\
& 3^*\sin x^4^*\cos x - 1/3^*HH1b(1,4,6,qext.qext)^*F^{-3^*}\cos x - 1/3^*HH1b(1,4,6,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 1/2^*HH1b(1,5,6,plext.plext)^*F^{-3^*}\cos x + 11/18^*HH1b(1,5,6,plext.plext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 4/9^*HH1b(1,5,6,plext.plext)^*F^{-3^*}\sin x^3^*\sqrt{3} - 1/3^*HH1b(1,5,7,qext.qext)^*F^{-} \\
& 3^*\cos x - 1/3^*HH1b(1,5,7,qext.qext)^*F^{-3^*}\sin x^*\sqrt{3} - 1/9^*HH1b(2,1,3,plext.plext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 2^*HH1b(2,1,3,plext.plext)^*F^{-3^*}\sin x^2^*\cos x + 16/9^*HH1b(2,1,3,plext.plext)^*F^{-} \\
& 3^*\sin x^4^*\cos x - 4/9^*HH1b(2,1,8,plext.plext)^*F^{-3^*}\sin x^*\sqrt{3} + 8/9^*HH1b(2,1,8,plext.plext)^*F^{-} \\
& 3^*\sin x^2^*\cos x - 16/9^*HH1b(2,1,8,plext.plext)^*F^{-3^*}\sin x^4^*\cos x + 1/2^*HH1b(2,4,7,plext.plext)^*F^{-} \\
& 3^*\cos x + 11/18^*HH1b(2,4,7,plext.plext)^*F^{-3^*}\sin x^*\sqrt{3} - 4/9^*HH1b(2,4,7,plext.plext)^*F^{-} \\
& 3^*\sin x^3^*\sqrt{3} - 1/3^*HH1b(2,4,7,qext.qext)^*F^{-3^*}\cos x - 1/3^*HH1b(2,4,7,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/3^*HH1b(2,5,6,qext.qext)^*F^{-3^*}\cos x - 1/3^*HH1b(2,5,6,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/4^*HH1b(3,4,4,qext.qext)^*F^{-3^*}\cos x - 7/36^*HH1b(3,4,4,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/3^*HH1b(3,4,4,qext.qext)^*F^{-3^*}\sin x^2^*\cos x + 1/9^*HH1b(3,4,4,qext.qext)^*F^{-} \\
& 3^*\sin x^3^*\sqrt{3} + 1/4^*HH1b(3,4,5,plext.plext)^*F^{-3^*}\cos x + 13/36^*HH1b(3,4,5,plext.plext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 1/3^*HH1b(3,4,5,plext.plext)^*F^{-3^*}\sin x^2^*\cos x - 7/9^*HH1b(3,4,5,plext.plext)^*F^{-} \\
& 3^*\sin x^3^*\sqrt{3} - 4/9^*HH1b(3,4,5,plext.plext)^*F^{-3^*}\sin x^4^*\cos x + 4/9^*HH1b(3,4,5,plext.plext)^*F^{-} \\
& 3^*\sin x^5^*\sqrt{3} - 1/4^*HH1b(3,5,5,qext.qext)^*F^{-3^*}\cos x - 7/36^*HH1b(3,5,5,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/3^*HH1b(3,5,5,qext.qext)^*F^{-3^*}\sin x^2^*\cos x + 1/9^*HH1b(3,5,5,qext.qext)^*F^{-} \\
& 3^*\sin x^3^*\sqrt{3} + 1/12^*HH1b(3,6,6,qext.qext)^*F^{-3^*}\cos x + 1/36^*HH1b(3,6,6,qext.qext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} - 1/3^*HH1b(3,6,6,qext.qext)^*F^{-3^*}\sin x^2^*\cos x - 1/9^*HH1b(3,6,6,qext.qext)^*F^{-} \\
& 3^*\sin x^3^*\sqrt{3} + 1/12^*HH1b(3,6,7,plext.plext)^*F^{-3^*}\cos x - 11/36^*HH1b(3,6,7,plext.plext)^*F^{-} \\
& 3^*\sin x^*\sqrt{3} + 1/3^*HH1b(3,6,7,plext.plext)^*F^{-3^*}\sin x^2^*\cos x + 7/9^*HH1b(3,6,7,plext.plext)^*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^3*\sqrt{3} - 4/9*HH1b(3,6,7,plext.plext)*F^{-3}*\sin x^4*\cos x - 4/9*HH1b(3,6,7,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} + 1/12*HH1b(3,7,7,qext.qext)*F^{-3}*\cos x + 1/36*HH1b(3,7,7,qext.qext)*F^{-3}*\sin x*\sqrt{3} - 1/3*HH1b(3,7,7,qext.qext)*F^{-3}*\sin x^2*\cos x - 1/9*HH1b(3,7,7,qext.qext)*F^{-3}*\sin x^3*\sqrt{3} - 1/3*HH1b(4,1,6,qext.qext)*F^{-3}*\cos x + 1/3*HH1b(4,2,7,plext.plext)*F^{-3}*\cos x + 8/9*HH1b(4,2,7,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 8/9*HH1b(4,2,7,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 1/3*HH1b(4,2,7,qext.qext)*F^{-3}*\cos x + 1/3*HH1b(4,4,8,qext.qext)*F^{-3}*\cos x + 4/9*HH1b(4,4,8,qext.qext)*F^{-3}*\sin x*\sqrt{3} - 2/3*HH1b(4,4,8,qext.qext)*F^{-3}*\sin x^2*\cos x + 2/9*HH1b(4,4,8,qext.qext)*F^{-3}*\sin x^3*\sqrt{3} - 7/12*HH1b(4,5,8,plext.plext)*F^{-3}*\cos x + 13/36*HH1b(4,5,8,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 8/9*HH1b(4,5,8,plext.plext)*F^{-3}*\sin x^2*\cos x - 4/3*HH1b(4,5,8,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 4/9*HH1b(4,5,8,plext.plext)*F^{-3}*\sin x^4*\cos x + 4/9*HH1b(4,5,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} + 1/3*HH1b(5,1,6,plext.plext)*F^{-3}*\cos x + 8/9*HH1b(5,1,6,plext.plext)*F^{-3}*\sin x*\sqrt{3} - 8/9*HH1b(5,1,6,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 1/3*HH1b(5,1,7,qext.qext)*F^{-3}*\cos x - 1/3*HH1b(5,2,6,qext.qext)*F^{-3}*\cos x - 7/12*HH1b(5,4,8,plext.plext)*F^{-3}*\cos x + 13/36*HH1b(5,4,8,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 8/9*HH1b(5,4,8,plext.plext)*F^{-3}*\sin x^2*\cos x - 4/3*HH1b(5,4,8,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 4/9*HH1b(5,4,8,plext.plext)*F^{-3}*\sin x^4*\cos x + 4/9*HH1b(5,4,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} + 1/3*HH1b(5,5,8,qext.qext)*F^{-3}*\cos x + 4/9*HH1b(5,5,8,qext.qext)*F^{-3}*\sin x*\sqrt{3} - 2/3*HH1b(5,5,8,qext.qext)*F^{-3}*\sin x^2*\cos x + 2/9*HH1b(5,5,8,qext.qext)*F^{-3}*\sin x^3*\sqrt{3} + 8/3*HH1b(6,6,8,qext.qext)*F^{-3}*\cos x + 8/9*HH1b(6,6,8,qext.qext)*F^{-3}*\sin x*\sqrt{3} - 2/3*HH1b(6,6,8,qext.qext)*F^{-3}*\sin x^2*\cos x - 2/9*HH1b(6,6,8,qext.qext)*F^{-3}*\sin x^3*\sqrt{3} - 29/12*HH1b(6,7,8,plext.plext)*F^{-3}*\cos x - 17/12*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 8/9*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^2*\cos x + 4/3*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 4/9*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^4*\cos x - 4/9*HH1b(6,7,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} - 29/12*HH1b(7,6,8,plext.plext)*F^{-3}*\cos x - 17/12*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x*\sqrt{3} + 8/9*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x^2*\cos x + 4/3*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x^3*\sqrt{3} - 4/9*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x^4*\cos x - 4/9*HH1b(7,6,8,plext.plext)*F^{-3}*\sin x^5*\sqrt{3} + 8/3*HH1b(7,7,8,qext.qext)*F^{-3}*\cos x + 8/9*HH1b(7,7,8,qext.qext)*F^{-3}*\sin x*\sqrt{3} - 2/3*HH1b(7,7,8,qext.qext)*F^{-3}*\sin x^2*\cos x - 2/9*HH1b(7,7,8,qext.qext)*F^{-3}*\sin x^3*\sqrt{3}) \\
& + \text{mud*mkp2} * (- 49/24576*F^{-3}*\cos x*\pi^{-4} - 5/6144*F^{-3}*\cos x*\pi^{-2} + 3/2*F^{-3}*\cos x*\pi^{-2}*L8r + 3*F^{-3}*\cos x*\pi^{-2}*L6r - 3/4*F^{-3}*\cos x*\pi^{-2}*L5r - 3/2*F^{-3}*\cos x*\pi^{-2}*L4r + 19/144*F^{-3}*\cos x*\pi^{-2}*L3r + 17/36*F^{-3}*\cos x*\pi^{-2}*L2r + 2/9*F^{-3}*\cos x*\pi^{-2}*L1r + 128/9*F^{-3}*\cos x*L5r^2 + 128/3*F^{-3}*\cos x*L4r*L5r + 32*F^{-3}*\cos x*L4r^2 - 64/3*F^{-3}*\cos x*CC18 - 64/3*F^{-3}*\cos x*CC17 - 32*F^{-3}*\cos x*CC16 - 64/3*F^{-3}*\cos x*CC15 - 64/3*F^{-3}*\cos x*CC14 - 91/1105920*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 169/1658880*F^{-3}*\sin x*\sqrt{3}*\pi^{-2} + 17/36*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r + 1/2*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r - 17/72*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r - 1/4*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r + 1/864*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r + 1/36*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L2r + 1/18*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L1r + 32/9*F^{-3}*\sin x*\sqrt{3}*L5r^2 + 32/3*F^{-3}*\sin x*\sqrt{3}*L4r*L5r + 16/3*F^{-3}*\sin x*\sqrt{3}*CC18 - 16/9*F^{-3}*\sin x*\sqrt{3}*CC17 - 16/3*F^{-3}*\sin x*\sqrt{3}*CC15 - 16/9*F^{-3}*\sin x*\sqrt{3}*CC14 + 89/69120*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 7/12960*F^{-3}*\sin x^2*\cos x*\pi^{-2} - 4/9*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r + 2/9*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r + 1/18*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r - 256/3*F^{-3}*\sin x^2*\cos x*CC18 -
\end{aligned}$$

$$\begin{aligned}
& 256/9 * F^{-3} * \sin x^2 * \cos x * CC17 - 256/9 * F^{-3} * \sin x^2 * \cos x * CC14 - 125/248832 * C * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} \\
& - 1/18 * C * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L8r + 1/18 * C * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L5r - 125/15552 * C * F^{-3} * \sin x^2 * \cos x * \pi^{-4} \\
& - 8/9 * C * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r + 8/9 * C * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r + 23/138240 * C^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} \\
& + 23/8640 * C^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} - 1/1920 * C * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} - 1/120 * C * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} \\
& - 23/92160 * C * \ln(4) * F^{-3} * \cos x * \pi^{-4} + 311/276480 * C * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} - 13/5760 * C * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} \\
& - 23/17280 * C * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} + 23/92160 * C * \ln(6) * F^{-3} * \cos x * \pi^{-4} - 389/276480 * C * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} \\
& - 13/5760 * C * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} + 23/17280 * C * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} - 1/120 * C * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} \\
& + 1/120 * C * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} - 1/13824 * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} - 1/9 * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L4r \\
& + 1/18 * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L3r + 1/18 * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L2r + 2/9 * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L1r \\
& - 1/576 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} + 4/27 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r - 1/864 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} \\
& + 8/27 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L5r - 41/138240 * \ln(3) * \ln(4) * F^{-3} * \cos x * \pi^{-4} + 167/414720 * \ln(3) * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} \\
& - 1/1152 * \ln(3) * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} - 13/17280 * \ln(3) * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} + 1/8640 * \ln(3) * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} \\
& + 1/25920 * \ln(3) * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} + 41/138240 * \ln(3) * \ln(6) * F^{-3} * \cos x * \pi^{-4} - 161/414720 * \ln(3) * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} \\
& - 1/1152 * \ln(3) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} + 13/17280 * \ln(3) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} + 1/8640 * \ln(3) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} \\
& - 1/25920 * \ln(3) * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} - 5/12288 * \ln(4) * F^{-3} * \cos x * \pi^{-4} - 1/24 * \ln(4) * F^{-3} * \cos x * \pi^{-2} * L8r + 2/3 * \ln(4) * F^{-3} * \cos x * \pi^{-2} * L6r \\
& + 11/144 * \ln(4) * F^{-3} * \cos x * \pi^{-2} * L5r - 1/2 * \ln(4) * F^{-3} * \cos x * \pi^{-2} * L4r + 1/32 * \ln(4) * F^{-3} * \cos x * \pi^{-2} * L3r - 1/2304 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} \\
& + 1/8 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L8r + 1/36 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L6r - 1/54 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L5r \\
& - 1/48 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L4r - 3/32 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L3r + 1/768 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} - 2/9 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r \\
& + 1/9 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r + 1/6 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L3r + 1/576 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} - 2/9 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L8r \\
& - 4/9 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L6r + 2/27 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L5r + 1/3 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L4r + 1/6 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L3r \\
& - 23/368640 * \ln(4)^2 * F^{-3} * \cos x * \pi^{-4} - 67/276480 * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} + 1/960 * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} + 13/17280 * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} \\
& + 1/1152 * \ln(4)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} + 5/12288 * \ln(4) * \ln(6) * F^{-3} * \cos x * \pi^{-4} - 1/5120 * \ln(4) * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} - 1/720 * \ln(4) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} \\
& - 1/576 * \ln(4) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} + 1/34560 * \ln(4) * \ln(8) * F^{-3} * \cos x * \pi^{-4} - 199/414720 * \ln(4) * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} \\
& + 17/17280 * \ln(4) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} + 11/10368 * \ln(4) * \ln(8) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} - 1/8640 * \ln(4) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} \\
& - 1/25920 * \ln(4) * \ln(8) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} - 67/12288 * \ln(6) * F^{-3} * \cos x * \pi^{-4} + 37/24 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L8r + 7/3 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L6r \\
& - 95/144 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L5r - 3/4 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L4r - 29/32 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L3r - 1/2 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L2r - 2 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L1r
\end{aligned}$$

$$\begin{aligned}
& 2^*L1r - 1/1152*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 25/72*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - \\
& 2^*L8r + 17/36*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r - 7/27*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r - \\
& 17/48*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r - 1/96*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r + \\
& 1/768*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 2/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r + \\
& 1/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r + 1/6*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r - \\
& 1/576*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + 2/9*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r + \\
& 4/9*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r - 2/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r - \\
& 1/3*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r - 1/6*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L3r - \\
& 127/368640*\ln(6)^2*F^{-3}*\cos x*\pi^{-4} + 133/276480*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + \\
& 1/960*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 13/17280*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} + \\
& 1/1152*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 89/34560*\ln(6)*\ln(8)*F^{-3}*\cos x*\pi^{-4} + \\
& 649/414720*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 17/17280*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} - \\
& 11/10368*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/8640*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} + \\
& 1/25920*\ln(6)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} + 1/384*\ln(8)*F^{-3}*\cos x*\pi^{-4} + 8/27*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L5r + \\
& 4/9*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L4r - 2/3*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L3r - 4/3*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L2r - \\
& 4/3*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L1r + 5/4608*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 1/27*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r + \\
& 1/9*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r - 1/6*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r - 1/3*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L2r - \\
& 1/3*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L1r + 1/1728*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 4/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r + \\
& 1/864*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4} - 8/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r - 4/9*\text{Hb}(1,2,3,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - \\
& 32/9*\text{Hb}(1,2,3,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 16/9*\text{Hb}(1,2,3,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + \\
& 2/9*\text{Hb}(1,2,3,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 16/9*\text{Hb}(1,2,3,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - \\
& 8/9*\text{Hb}(1,2,3,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 16/9*\text{Hb}(1,2,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - \\
& 16/9*\text{Hb}(1,2,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - 8/9*\text{Hb}(1,2,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + \\
& 8/9*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 8/9*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - \\
& 8/9*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3}*\cos x - 1/3*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 4/9*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + \\
& 8/9*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 8/9*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 4/9*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + \\
& 8/9*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 8/9*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + 4/9*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 4/9*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - 2/9*\text{Hb}(3,1,2,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 2/9*\text{Hb}(3,1,2,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 4/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 16/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 352/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 256/81*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3}*\sin x^6*\cos x*m83^{-1} - 512/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3}*\sin x^8*\cos x*m83^{-1} - 32/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 32/27*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 512/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sin x^6*\cos x + 256/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3}*\sin x^8*\cos x - 4/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 16/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1 + 224/81 \text{Hb}(3,3,8, \text{plext.plext}) * F^{-3} \sin^4 \cos^2 m83^{-1} - 256/27 \text{Hb}(3,3,8, \text{plext.plext}) * F^{-3} \sin^6 \cos^2 m83^{-1} + 512/81 \text{Hb}(3,3,8, \text{plext.plext}) * F^{-3} \sin^8 \cos^2 m83^{-1} \\
& - 256/81 \text{Hb}(3,3,8,1, \text{plext.plext}) * F^{-3} \sin^4 \cos^2 + 512/81 \text{Hb}(3,3,8,1, \text{plext.plext}) * F^{-3} \sin^6 \cos^2 - 256/81 \text{Hb}(3,3,8,1, \text{plext.plext}) * F^{-3} \sin^8 \cos^2 + \\
& 1/108 \text{Hb}(3,4,5, \text{plext.plext}) * F^{-3} \cos^2 m83^{-1} - 1/81 \text{Hb}(3,4,5, \text{plext.plext}) * F^{-3} \sin^2 \sqrt{3} m83^{-1} - 10/27 \text{Hb}(3,4,5, \text{plext.plext}) * F^{-3} \sin^4 \sqrt{3} m83^{-1} \\
& + 7/81 \text{Hb}(3,4,5, \text{plext.plext}) * F^{-3} \sin^6 \sqrt{3} m83^{-1} - 2/27 \text{Hb}(3,4,5, \text{plext.plext}) * F^{-3} \sin^8 \sqrt{3} m83^{-1} - 1/72 \text{Hb}(3,4,5,1, \text{plext.plext}) * F^{-3} \cos^2 + \\
& 1/54 \text{Hb}(3,4,5,1, \text{plext.plext}) * F^{-3} \sin^2 \sqrt{3} - 1/27 \text{Hb}(3,4,5,1, \text{plext.plext}) * F^{-3} \sin^4 \sqrt{3} \cos^2 - 1/18 \text{Hb}(3,4,5,1, \text{plext.plext}) * F^{-3} \sin^6 \sqrt{3} \cos^2 + \\
& 1/27 \text{Hb}(3,4,5,1, \text{plext.plext}) * F^{-3} \sin^8 \sqrt{3} \cos^2 + 1/27 \text{Hb}(3,4,5,1, \text{plext.plext}) * F^{-3} \sin^5 \sqrt{3} - 1/108 \text{Hb}(3,6,7, \text{plext.plext}) * F^{-3} \cos^2 m83^{-1} + \\
& 1/81 \text{Hb}(3,6,7, \text{plext.plext}) * F^{-3} \sin^2 \sqrt{3} m83^{-1} - 10/27 \text{Hb}(3,6,7, \text{plext.plext}) * F^{-3} \sin^4 \sqrt{3} m83^{-1} - 7/81 \text{Hb}(3,6,7, \text{plext.plext}) * F^{-3} \sin^6 \sqrt{3} m83^{-1} - \\
& 2/27 \text{Hb}(3,6,7, \text{plext.plext}) * F^{-3} \sin^8 \sqrt{3} m83^{-1} + 1/72 \text{Hb}(3,6,7,1, \text{plext.plext}) * F^{-3} \cos^2 - 1/54 \text{Hb}(3,6,7,1, \text{plext.plext}) * F^{-3} \sin^2 \sqrt{3} - \\
& 1/27 \text{Hb}(3,6,7,1, \text{plext.plext}) * F^{-3} \sin^4 \sqrt{3} \cos^2 + 1/18 \text{Hb}(3,6,7,1, \text{plext.plext}) * F^{-3} \sin^6 \sqrt{3} \cos^2 + 1/27 \text{Hb}(3,6,7,1, \text{plext.plext}) * F^{-3} \sin^8 \sqrt{3} \cos^2 + \\
& 4/81 \text{Hb}(3,8,8, \text{plext.plext}) * F^{-3} \sin^2 \sqrt{3} m83^{-1} - 16/81 \text{Hb}(3,8,8, \text{plext.plext}) * F^{-3} \sin^4 \sqrt{3} m83^{-1} + 256/27 \text{Hb}(3,8,8, \text{plext.plext}) * F^{-3} \sin^6 \sqrt{3} m83^{-1} - \\
& 32/81 \text{Hb}(3,8,8,1, \text{plext.plext}) * F^{-3} \sin^2 \cos^2 + 32/9 \text{Hb}(3,8,8,1, \text{plext.plext}) * F^{-3} \sin^4 \cos^2 - 512/81 \text{Hb}(3,8,8,1, \text{plext.plext}) * F^{-3} \sin^6 \cos^2 + \\
& 256/81 \text{Hb}(3,8,8,1, \text{plext.plext}) * F^{-3} \sin^8 \cos^2 - 1/24 \text{Hb}(4,2,7, \text{plext.plext}) * F^{-3} \cos^2 m83^{-1} + 2/9 \text{Hb}(4,2,7, \text{plext.plext}) * F^{-3} \sin^2 \sqrt{3} m83^{-1} - 2/9 \text{Hb}(4,2,7, \text{plext.plext}) * F^{-3} \sin^4 \sqrt{3} m83^{-1} - \\
& 1/24 \text{Hb}(4,2,7,1, \text{plext.plext}) * F^{-3} \cos^2 - 1/9 \text{Hb}(4,2,7,1, \text{plext.plext}) * F^{-3} \sin^2 \sqrt{3} + 1/9 \text{Hb}(4,2,7,1, \text{plext.plext}) * F^{-3} \sin^4 \sqrt{3} + 2/27 \text{Hb}(4,5,8, \text{plext.plext}) * F^{-3} \cos^2 m83^{-1} + \\
& 73/81 \text{Hb}(4,5,8, \text{plext.plext}) * F^{-3} \sin^2 \sqrt{3} m83^{-1} - 148/81 \text{Hb}(4,5,8, \text{plext.plext}) * F^{-3} \sin^4 \sqrt{3} m83^{-1} - 40/27 \text{Hb}(4,5,8, \text{plext.plext}) * F^{-3} \sin^6 \sqrt{3} m83^{-1} + 8/9 \text{Hb}(4,5,8, \text{plext.plext}) * F^{-3} \sin^8 \sqrt{3} m83^{-1} + 17/18 \text{Hb}(4,5,8,1, \text{plext.plext}) * F^{-3} \cos^2 - \\
& 4/9 \text{Hb}(4,5,8,1, \text{plext.plext}) * F^{-3} \sin^2 \sqrt{3} - 28/27 \text{Hb}(4,5,8,1, \text{plext.plext}) * F^{-3} \sin^4 \sqrt{3} + 34/27 \text{Hb}(4,5,8,1, \text{plext.plext}) * F^{-3} \sin^6 \sqrt{3} + 20/27 \text{Hb}(4,5,8,1, \text{plext.plext}) * F^{-3} \sin^8 \sqrt{3} - 4/9 \text{Hb}(4,5,8,1, \text{plext.plext}) * F^{-3} \sin^5 \sqrt{3} - 1/24 \text{Hb}(5,1,6, \text{plext.plext}) * F^{-3} \cos^2 m83^{-1} + 2/9 \text{Hb}(5,1,6, \text{plext.plext}) * F^{-3} \sin^2 \sqrt{3} m83^{-1} - 2/9 \text{Hb}(5,1,6, \text{plext.plext}) * F^{-3} \sin^4 \sqrt{3} m83^{-1} - 1/24 \text{Hb}(5,1,6,1, \text{plext.plext}) * F^{-3} \cos^2 - 1/9 \text{Hb}(5,1,6,1, \text{plext.plext}) * F^{-3} \sin^2 \sqrt{3} + 1/9 \text{Hb}(5,1,6,1, \text{plext.plext}) * F^{-3} \sin^4 \sqrt{3} + 1/24 \text{Hb}(6,1,5, \text{plext.plext}) * F^{-3} \cos^2 m83^{-1} - 2/9 \text{Hb}(6,1,5, \text{plext.plext}) * F^{-3} \sin^2 \sqrt{3} m83^{-1} + 2/9 \text{Hb}(6,1,5, \text{plext.plext}) * F^{-3} \sin^4 \sqrt{3} m83^{-1} + 1/24 \text{Hb}(6,1,5,1, \text{plext.plext}) * F^{-3} \cos^2 + 1/9 \text{Hb}(6,1,5,1, \text{plext.plext}) * F^{-3} \sin^2 \sqrt{3} - 1/9 \text{Hb}(6,1,5,1, \text{plext.plext}) * F^{-3} \sin^4 \sqrt{3} - 2/27 \text{Hb}(6,7,8, \text{plext.plext}) * F^{-3} \cos^2 m83^{-1} - 79/81 \text{Hb}(6,7,8, \text{plext.plext}) * F^{-3} \sin^2 \sqrt{3} m83^{-1} + 8/9 \text{Hb}(6,7,8, \text{plext.plext}) * F^{-3} \sin^4 \sqrt{3} m83^{-1} + 148/81 \text{Hb}(6,7,8, \text{plext.plext}) * F^{-3} \sin^6 \sqrt{3} m83^{-1} - 40/27 \text{Hb}(6,7,8, \text{plext.plext}) * F^{-3} \sin^8 \sqrt{3} m83^{-1} - 8/9 \text{Hb}(6,7,8, \text{plext.plext}) * F^{-3} \sin^5 \sqrt{3} m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& + 47/18*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3*\cos x} + 32/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-} \\
& 3*\sin x*\sqrt{3} - 28/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} - 34/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-} \\
& 3*\sin x^3*\sqrt{3} + 20/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} + \\
& 4/9*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3*\sin x^5*\sqrt{3}} + 1/24*\text{Hb}(7,2,4,\text{plext.plext})*F^{-} \\
& 3*\cos x*m83^{-1} - 2/9*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + \\
& 2/9*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 1/24*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-} \\
& 3*\cos x + 1/9*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}} - 1/9*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-} \\
& 3*\sin x^3*\sqrt{3} - 4/9*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} + \\
& 4/9*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} + 2/9*\text{Hb}(8,1,2,1,\text{plext.plext})*F^{-} \\
& 3*\sin x^2*\cos x - 2/9*\text{Hb}(8,1,2,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} - 1/3*\text{Hb}(8,4,5,\text{plext.plext})*F^{-} \\
& 3*\sin x*\sqrt{3}*m83^{-1} + 2/9*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} \\
& + 5/9*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} - 2/9*\text{Hb}(8,4,5,\text{plext.plext})*F^{-} \\
& 3*\sin x^4*\cos x*m83^{-1} - 2/9*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} \\
& - 5/24*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3*\cos x} + 11/72*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-} \\
& 3*\sin x*\sqrt{3} - 1/9*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} - 7/18*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-} \\
& 3*\sin x^3*\sqrt{3} + 1/9*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} + 1/9*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-} \\
& 3*\sin x^5*\sqrt{3} + 1/3*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + \\
& 2/9*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} - 5/9*\text{Hb}(8,6,7,\text{plext.plext})*F^{-} \\
& 3*\sin x^3*\sqrt{3}*m83^{-1} - 2/9*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} \\
& + 2/9*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} - 19/24*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-} \\
& 3*\cos x - 29/72*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}} - 1/9*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-} \\
& 3*\sin x^2*\cos x + 7/18*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3*\sin x^3*\sqrt{3}} + 1/9*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-} \\
& 3*\sin x^4*\cos x - 1/9*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3*\sin x^5*\sqrt{3}} - 4/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-} \\
& 3*\sin x*\sqrt{3}*m83^{-1} - 112/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} \\
& + 352/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} - 256/81*\text{Hb}(8,8,8,\text{plext.plext})*F^{-} \\
& 3*\sin x^6*\cos x*m83^{-1} + 512/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3*\sin x^8*\cos x*m83^{-1}} \\
& - 64/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3*\cos x} + 64/81*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-} \\
& 3*\sin x^2*\cos x - 128/81*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} + \\
& 512/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3*\sin x^6*\cos x} - 256/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-} \\
& 3*\sin x^8*\cos x - 1/6*\text{H21b}(1,5,6,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - \\
& 2/3*\text{H21b}(1,5,6,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} - \text{H21b}(1,5,6,1,\text{plext.plext})*F^{-} \\
& 3*\cos x - 1/6*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}} + 1/3*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-} \\
& 3*\sin x^2*\cos x - 1/6*\text{H21b}(2,4,7,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - \\
& 2/3*\text{H21b}(2,4,7,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} - \text{H21b}(2,4,7,1,\text{plext.plext})*F^{-} \\
& 3*\cos x - 1/6*\text{H21b}(2,4,7,1,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}} + 1/3*\text{H21b}(2,4,7,1,\text{plext.plext})*F^{-} \\
& 3*\sin x^2*\cos x + 1/3*\text{H21b}(3,1,2,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + \\
& 8/3*\text{H21b}(3,1,2,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} - 4/3*\text{H21b}(3,1,2,\text{plext.plext})*F^{-} \\
& 3*\sin x^4*\cos x*m83^{-1} - 1/6*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}} - \\
& 4/3*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} + 2/3*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-} \\
& 3*\sin x^4*\cos x - 1/2*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3*\cos x*m83^{-1}} + 1/6*\text{H21b}(3,4,5,\text{plext.plext})*F^{-} \\
& 3*\sin x*\sqrt{3}*m83^{-1} - 4/3*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} \\
& - \text{H21b}(3,4,5,\text{plext.plext})*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 2/3*\text{H21b}(3,4,5,\text{plext.plext})*F^{-} \\
& 3*\sin x^4*\cos x*m83^{-1} + 2/3*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} \\
& - 5/8*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3*\cos x} - 13/24*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-} \\
& 3*\sin x*\sqrt{3} + 2/3*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} + 5/6*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-} \\
& 3*\sin x^3*\sqrt{3} - 1/3*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} - 1/3*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin^5*\sqrt{3} + 1/2*H21b(3,6,7,plext.plext)*F^{-3}*\cos^*m83^{-1} - 1/2*H21b(3,6,7,plext.plext)*F^{-3}*\sin^*\sqrt{3}*m83^{-1} - 4/3*H21b(3,6,7,plext.plext)*F^{-3}*\sin^2*\cos^*m83^{-1} \\
& + H21b(3,6,7,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 2/3*H21b(3,6,7,plext.plext)*F^{-3}*\sin^4*\cos^*m83^{-1} - 2/3*H21b(3,6,7,plext.plext)*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} \\
& - 3/8*H21b(3,6,7,1,plext.plext)*F^{-3}*\cos^* + 11/24*H21b(3,6,7,1,plext.plext)*F^{-3}*\sin^*\sqrt{3} + 2/3*H21b(3,6,7,1,plext.plext)*F^{-3}*\sin^2*\cos^* - 5/6*H21b(3,6,7,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} - 1/3*H21b(3,6,7,1,plext.plext)*F^{-3}*\sin^4*\cos^* + 1/3*H21b(3,6,7,1,plext.plext)*F^{-3}*\sin^5*\sqrt{3} + 1/4*H21b(4,2,7,plext.plext)*F^{-3}*\cos^*m83^{-1} + 5/12*H21b(4,2,7,plext.plext)*F^{-3}*\sin^*\sqrt{3}*m83^{-1} + 1/3*H21b(4,2,7,plext.plext)*F^{-3}*\sin^2*\cos^*m83^{-1} - 1/3*H21b(4,2,7,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 3/8*H21b(4,2,7,1,plext.plext)*F^{-3}*\cos^* - 5/24*H21b(4,2,7,1,plext.plext)*F^{-3}*\sin^*\sqrt{3} - 1/6*H21b(4,2,7,1,plext.plext)*F^{-3}*\sin^2*\cos^* + 1/6*H21b(4,2,7,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} + 1/4*H21b(5,1,6,plext.plext)*F^{-3}*\cos^*m83^{-1} + 5/12*H21b(5,1,6,plext.plext)*F^{-3}*\sin^*\sqrt{3}*m83^{-1} + 1/3*H21b(5,1,6,plext.plext)*F^{-3}*\sin^2*\cos^*m83^{-1} - 1/3*H21b(5,1,6,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 3/8*H21b(5,1,6,1,plext.plext)*F^{-3}*\cos^* - 5/24*H21b(5,1,6,1,plext.plext)*F^{-3}*\sin^*\sqrt{3} - 1/6*H21b(5,1,6,1,plext.plext)*F^{-3}*\sin^2*\cos^* + 1/6*H21b(5,1,6,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} - 1/4*H21b(6,1,5,plext.plext)*F^{-3}*\cos^*m83^{-1} - 1/4*H21b(6,1,5,plext.plext)*F^{-3}*\sin^*\sqrt{3}*m83^{-1} + 1/3*H21b(6,1,5,plext.plext)*F^{-3}*\sin^2*\cos^*m83^{-1} + 1/3*H21b(6,1,5,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 3/8*H21b(6,1,5,1,plext.plext)*F^{-3}*\cos^* + 1/8*H21b(6,1,5,1,plext.plext)*F^{-3}*\sin^*\sqrt{3} - 1/6*H21b(6,1,5,1,plext.plext)*F^{-3}*\sin^2*\cos^* - 1/6*H21b(6,1,5,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} - 1/4*H21b(7,2,4,plext.plext)*F^{-3}*\cos^*m83^{-1} - 1/4*H21b(7,2,4,plext.plext)*F^{-3}*\sin^*\sqrt{3}*m83^{-1} + 1/3*H21b(7,2,4,plext.plext)*F^{-3}*\sin^2*\cos^*m83^{-1} + 1/3*H21b(7,2,4,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 3/8*H21b(7,2,4,1,plext.plext)*F^{-3}*\cos^* + 1/8*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin^*\sqrt{3} - 1/6*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin^2*\cos^* - 1/6*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} - 4/3*H21b(8,1,2,plext.plext)*F^{-3}*\sin^2*\cos^*m83^{-1} + 4/3*H21b(8,1,2,plext.plext)*F^{-3}*\sin^4*\cos^*m83^{-1} + 2/3*H21b(8,1,2,1,plext.plext)*F^{-3}*\sin^2*\cos^* - 2/3*H21b(8,1,2,1,plext.plext)*F^{-3}*\sin^4*\cos^* - H21b(8,4,5,plext.plext)*F^{-3}*\sin^*\sqrt{3}*m83^{-1} + 2/3*H21b(8,4,5,plext.plext)*F^{-3}*\sin^2*\cos^*m83^{-1} + 5/3*H21b(8,4,5,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 1/2*H21b(8,4,5,plext.plext)*F^{-3}*\sin^4*\cos^*m83^{-1} - 2/3*H21b(8,4,5,plext.plext)*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} - 5/8*H21b(8,4,5,1,plext.plext)*F^{-3}*\cos^* + 11/24*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin^*\sqrt{3} - 1/3*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin^2*\cos^* - 7/6*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} + 1/3*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin^4*\cos^* + 1/3*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin^5*\sqrt{3} + H21b(8,6,7,plext.plext)*F^{-3}*\sin^*\sqrt{3}*m83^{-1} + 2/3*H21b(8,6,7,plext.plext)*F^{-3}*\sin^2*\cos^*m83^{-1} - 5/3*H21b(8,6,7,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 2/3*H21b(8,6,7,plext.plext)*F^{-3}*\sin^4*\cos^*m83^{-1} + 2/3*H21b(8,6,7,plext.plext)*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} - 19/8*H21b(8,6,7,1,plext.plext)*F^{-3}*\cos^* - 29/24*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin^*\sqrt{3} - 1/3*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin^2*\cos^* + 7/6*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} + 1/3*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin^4*\cos^* - 1/3*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin^5*\sqrt{3} + 10/27*HH1b(1,2,3,plext.plext)*F^{-3}*\sin^*\sqrt{3}*m83^{-1} + 136/27*HH1b(1,2,3,plext.plext)*F^{-3}*\sin^2*\cos^*m83^{-1} - 32/9*HH1b(1,2,3,plext.plext)*F^{-3}*\sin^4*\cos^*m83^{-1} - 2/9*HH1b(1,2,3,1,plext.plext)*F^{-3}*\sin^*\sqrt{3} -
\end{aligned}$$

$$\begin{aligned}
& 8/3*HH1b(1,2,3,1,plext.plext)*F^{-3*\sin x^2*\cos x} + 16/9*HH1b(1,2,3,1,plext.plext)*F^{-3*\sin x^4*\cos x} + 2/27*HH1b(1,2,8,plext.plext)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - \\
& 88/27*HH1b(1,2,8,plext.plext)*F^{-3*\sin x^2*\cos x*m83^{-1}} + 32/9*HH1b(1,2,8,plext.plext)*F^{-3*\sin x^4*\cos x*m83^{-1}} + 16/9*HH1b(1,2,8,1,plext.plext)*F^{-3*\sin x^2*\cos x} - \\
& 16/9*HH1b(1,2,8,1,plext.plext)*F^{-3*\sin x^4*\cos x} - 10/9*HH1b(1,5,6,plext.plext)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - 8/9*HH1b(1,5,6,plext.plext)*F^{-3*\sin x^2*\cos x*m83^{-1}} \\
& + 8/9*HH1b(1,5,6,plext.plext)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 1/3*HH1b(1,5,6,1,plext.plext)*F^{-3*\cos x} + 5/9*HH1b(1,5,6,1,plext.plext)*F^{-3*\sin x*\sqrt{3}} + 4/9*HH1b(1,5,6,1,plext.plext)*F^{-3*\sin x^2*\cos x} - \\
& 4/9*HH1b(1,5,6,1,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} + 10/27*HH1b(2,1,3,plext.plext)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 136/27*HH1b(2,1,3,plext.plext)*F^{-3*\sin x^2*\cos x*m83^{-1}} - \\
& 32/9*HH1b(2,1,3,plext.plext)*F^{-3*\sin x^4*\cos x*m83^{-1}} - 2/9*HH1b(2,1,3,1,plext.plext)*F^{-3*\sin x*\sqrt{3}} - 8/3*HH1b(2,1,3,1,plext.plext)*F^{-3*\sin x^2*\cos x} + \\
& 16/9*HH1b(2,1,3,1,plext.plext)*F^{-3*\sin x^4*\cos x} + 2/27*HH1b(2,1,8,plext.plext)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - 88/27*HH1b(2,1,8,plext.plext)*F^{-3*\sin x^2*\cos x*m83^{-1}} + \\
& 32/9*HH1b(2,1,8,plext.plext)*F^{-3*\sin x^4*\cos x*m83^{-1}} + 16/9*HH1b(2,1,8,1,plext.plext)*F^{-3*\sin x^4*\cos x} - 10/9*HH1b(2,4,7,plext.plext)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - \\
& 8/9*HH1b(2,4,7,plext.plext)*F^{-3*\sin x^2*\cos x*m83^{-1}} + 8/9*HH1b(2,4,7,plext.plext)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 1/3*HH1b(2,4,7,1,plext.plext)*F^{-3*\cos x} + \\
& 5/9*HH1b(2,4,7,1,plext.plext)*F^{-3*\sin x*\sqrt{3}} + 4/9*HH1b(2,4,7,1,plext.plext)*F^{-3*\sin x^2*\cos x} - 4/9*HH1b(2,4,7,1,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} + \\
& 2/9*HH1b(3,4,5,plext.plext)*F^{-3*\cos x*m83^{-1}} + 1/27*HH1b(3,4,5,plext.plext)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - 28/27*HH1b(3,4,5,plext.plext)*F^{-3*\sin x^2*\cos x*m83^{-1}} \\
& + 20/27*HH1b(3,4,5,plext.plext)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 16/9*HH1b(3,4,5,plext.plext)*F^{-3*\sin x^4*\cos x*m83^{-1}} - 16/27*HH1b(3,4,5,plext.plext)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} \\
& + 1/9*HH1b(3,4,5,1,plext.plext)*F^{-3*\cos x} + 11/27*HH1b(3,4,5,1,plext.plext)*F^{-3*\sin x*\sqrt{3}} + 4/3*HH1b(3,4,5,1,plext.plext)*F^{-3*\sin x^2*\cos x} - 16/27*HH1b(3,4,5,1,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} - \\
& 8/9*HH1b(3,4,5,1,plext.plext)*F^{-3*\sin x^4*\cos x} + 8/27*HH1b(3,4,5,1,plext.plext)*F^{-3*\sin x^5*\sqrt{3}} - 2/9*HH1b(3,6,7,plext.plext)*F^{-3*\cos x*m83^{-1}} + 1/3*HH1b(3,6,7,plext.plext)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - \\
& 28/27*HH1b(3,6,7,plext.plext)*F^{-3*\sin x^2*\cos x*m83^{-1}} - 20/27*HH1b(3,6,7,plext.plext)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 16/9*HH1b(3,6,7,plext.plext)*F^{-3*\sin x^4*\cos x*m83^{-1}} \\
& + 16/27*HH1b(3,6,7,plext.plext)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} - 1/9*HH1b(3,6,7,1,plext.plext)*F^{-3*\cos x} - 5/27*HH1b(3,6,7,1,plext.plext)*F^{-3*\sin x*\sqrt{3}} + 4/3*HH1b(3,6,7,1,plext.plext)*F^{-3*\sin x^2*\cos x} + \\
& 16/27*HH1b(3,6,7,1,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} - 8/9*HH1b(3,6,7,1,plext.plext)*F^{-3*\sin x^4*\cos x} - 8/27*HH1b(3,6,7,1,plext.plext)*F^{-3*\sin x^5*\sqrt{3}} - 16/9*HH1b(4,2,7,plext.plext)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + \\
& 16/9*HH1b(4,2,7,plext.plext)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 2/3*HH1b(4,2,7,1,plext.plext)*F^{-3*\cos x} + 8/9*HH1b(4,2,7,1,plext.plext)*F^{-3*\sin x*\sqrt{3}} - 8/9*HH1b(4,2,7,1,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} - 2/9*HH1b(4,5,8,plext.plext)*F^{-3*\cos x*m83^{-1}} - 29/27*HH1b(4,5,8,plext.plext)*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - 52/27*HH1b(4,5,8,plext.plext)*F^{-3*\sin x^2*\cos x*m83^{-1}} \\
& + 44/27*HH1b(4,5,8,plext.plext)*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 16/9*HH1b(4,5,8,plext.plext)*F^{-3*\sin x^4*\cos x*m83^{-1}} - 16/27*HH1b(4,5,8,plext.plext)*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} - 14/9*HH1b(4,5,8,1,plext.plext)*F^{-3*\cos x} + 8/27*HH1b(4,5,8,1,plext.plext)*F^{-3*\sin x*\sqrt{3}} + 16/9*HH1b(4,5,8,1,plext.plext)*F^{-3*\sin x^2*\cos x} - 28/27*HH1b(4,5,8,1,plext.plext)*F^{-3*\sin x^3*\sqrt{3}} - 8/9*HH1b(4,5,8,1,plext.plext)*F^{-3*\sin x^4*\cos x} +
\end{aligned}$$

$$\begin{aligned}
& 8/27*HH1b(4,5,8,1,plext.plext)*F^{-3}*\sin^5*\sqrt{3} - 16/9*HH1b(5,1,6,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 16/9*HH1b(5,1,6,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} \\
& 1 + 2/3*HH1b(5,1,6,1,plext.plext)*F^{-3}*\cos x + 8/9*HH1b(5,1,6,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} - 8/9*HH1b(5,1,6,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} - 2/9*HH1b(5,4,8,plext.plext)*F^{-3}*\cos x*m83^{-1} \\
& - 29/27*HH1b(5,4,8,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 52/27*HH1b(5,4,8,plext.plext)*F^{-3}*\sin^2*\cos x*m83^{-1} + 44/27*HH1b(5,4,8,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 16/9*HH1b(5,4,8,plext.plext)*F^{-3}*\sin^4*\cos x*m83^{-1} \\
& 1 - 16/27*HH1b(5,4,8,plext.plext)*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} - 14/9*HH1b(5,4,8,1,plext.plext)*F^{-3}*\cos x + 8/27*HH1b(5,4,8,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} + 16/9*HH1b(5,4,8,1,plext.plext)*F^{-3}*\sin^2*\cos x - 28/27*HH1b(5,4,8,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} - 8/9*HH1b(5,4,8,1,plext.plext)*F^{-3}*\sin^4*\cos x + 8/27*HH1b(5,4,8,1,plext.plext)*F^{-3}*\sin^5*\sqrt{3} + 2/9*HH1b(6,7,8,plext.plext)*F^{-3}*\cos x*m83^{-1} + HH1b(6,7,8,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 52/27*HH1b(6,7,8,plext.plext)*F^{-3}*\sin^2*\cos x*m83^{-1} - 44/27*HH1b(6,7,8,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 16/9*HH1b(6,7,8,plext.plext)*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} - 34/9*HH1b(6,7,8,1,plext.plext)*F^{-3}*\cos x - 32/27*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} + 16/9*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin^2*\cos x + 28/27*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} - 8/9*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin^4*\cos x - 8/27*HH1b(6,7,8,1,plext.plext)*F^{-3}*\sin^5*\sqrt{3} + 2/9*HH1b(7,6,8,plext.plext)*F^{-3}*\cos x*m83^{-1} + HH1b(7,6,8,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 52/27*HH1b(7,6,8,plext.plext)*F^{-3}*\sin^2*\cos x*m83^{-1} - 44/27*HH1b(7,6,8,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 16/9*HH1b(7,6,8,plext.plext)*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} - 34/9*HH1b(7,6,8,1,plext.plext)*F^{-3}*\cos x - 32/27*HH1b(7,6,8,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} + 16/9*HH1b(7,6,8,1,plext.plext)*F^{-3}*\sin^2*\cos x + 28/27*HH1b(7,6,8,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} - 8/9*HH1b(7,6,8,1,plext.plext)*F^{-3}*\sin^4*\cos x - 8/27*HH1b(7,6,8,1,plext.plext)*F^{-3}*\sin^5*\sqrt{3}) \\
& + \text{mud}*\text{mkp}2^2 * (+ 229/155520*F^{-3}*\sin^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 511/3732480*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*m83^{-1} + 13/27*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} + 4/27*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} + 10/27*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} - 35/162*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} - 5/27*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} - 1/54*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} + 2048/27*F^{-3}*\sin^3*\sqrt{3}*L5r*L8r*m83^{-1} + 2048/9*F^{-3}*\sin^3*\sqrt{3}*L5r*L7r*m83^{-1} - 256/9*F^{-3}*\sin^3*\sqrt{3}*L4r*L8r*m83^{-1} - 256/3*F^{-3}*\sin^3*\sqrt{3}*L4r*L7r*m83^{-1} - 256/9*F^{-3}*\sin^3*\sqrt{3}*CC33*m83^{-1} - 128/9*F^{-3}*\sin^3*\sqrt{3}*CC32*m83^{-1} - 128/9*F^{-3}*\sin^3*\sqrt{3}*CC31*m83^{-1} - 128/9*F^{-3}*\sin^3*\sqrt{3}*CC20*m83^{-1} - 64/3*F^{-3}*\sin^3*\sqrt{3}*CC19*m83^{-1} + 256/9*F^{-3}*\sin^3*\sqrt{3}*CC18*m83^{-1} + 256/27*F^{-3}*\sin^3*\sqrt{3}*CC17*m83^{-1} + 256/27*F^{-3}*\sin^3*\sqrt{3}*CC14*m83^{-1} + 1253/20736*F^{-3}*\sin^2*\cos x*\pi^{-4}*m83^{-1} + 293/31104*F^{-3}*\sin^2*\cos x*\pi^{-2}*m83^{-1} + 80/9*F^{-3}*\sin^2*\cos x*\pi^{-2}*L8r*m83^{-1} + 32/9*F^{-3}*\sin^2*\cos x*\pi^{-2}*L7r*m83^{-1} + 80/9*F^{-3}*\sin^2*\cos x*\pi^{-2}*L6r*m83^{-1} - 104/27*F^{-3}*\sin^2*\cos x*\pi^{-2}*L5r*m83^{-1} - 40/9*F^{-3}*\sin^2*\cos x*\pi^{-2}*L4r*m83^{-1} - 1/9*F^{-3}*\sin^2*\cos x*\pi^{-2}*L3r*m83^{-1} - 2048/9*F^{-3}*\sin^2*\cos x*L5r*L8r*m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& -2048/3^*F^{-3}*\sin x^2*\cos x*L5r*L7r*m83^{-1} - 2048/3^*F^{-3}*\sin x^2*\cos x*L4r*L8r*m83^{-1} \\
& - 2048/3^*F^{-3}*\sin x^2*\cos x*L4r*L7r*m83^{-1} - 2048/3^*F^{-3}*\sin x^2*\cos x*CC33*m83^{-1} \\
& - 1024/3^*F^{-3}*\sin x^2*\cos x*CC32*m83^{-1} - 1024/3^*F^{-3}*\sin x^2*\cos x*CC31*m83^{-1} \\
& - 1024/3^*F^{-3}*\sin x^2*\cos x*CC20*m83^{-1} - 512/9^*F^{-3}*\sin x^2*\cos x*CC19*m83^{-1} \\
& + 512/3^*F^{-3}*\sin x^2*\cos x*CC18*m83^{-1} + 512/9^*F^{-3}*\sin x^2*\cos x*CC17*m83^{-1} \\
& + 512/9^*F^{-3}*\sin x^2*\cos x*CC14*m83^{-1} + 125/62208^*C^*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& *m83^{-1} + 2/27^*C^*F^{-3}*\sin x*\sqrt{3}*\pi^{-2} *L8r*m83^{-1} - 4/9^*C^*F^{-3} \\
& *\sin x*\sqrt{3}*\pi^{-2} *L7r*m83^{-1} - 2/9^*C^*F^{-3}*\sin x*\sqrt{3}*\pi^{-2} *L5r*m83^{-1} + \\
& 64/9^*C^*F^{-3}*\sin x^2*\cos x*\pi^{-2} *L8r*m83^{-1} + 64/3^*C^*F^{-3}*\sin x^2*\cos x*\pi^{-2} \\
& *L7r*m83^{-1} - 23/34560^*C^2^*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} *m83^{-1} + 13/25920^*C*\ln(3)^*F^{-3} \\
& *\sin x*\sqrt{3}*\pi^{-4} *m83^{-1} - 23/2160^*C*\ln(3)^*F^{-3}*\sin x^2*\cos x*\pi^{-4} *m83^{-1} \\
& - 1/108^*C*\ln(3)^*F^{-3}*\sin x^4*\cos x*\pi^{-4} *m83^{-1} - 5/2304^*C*\ln(4)^*F^{-3} \\
& *\cos x*\pi^{-4} *m83^{-1} + 17/3456^*C*\ln(4)^*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} *m83^{-1} \\
& - 1/144^*C*\ln(4)^*F^{-3}*\sin x^2*\cos x*\pi^{-4} *m83^{-1} - 1/144^*C*\ln(4)^*F^{-3} \\
& *\sin x^3*\sqrt{3}*\pi^{-4} *m83^{-1} + 5/2304^*C*\ln(6)^*F^{-3}*\cos x*\pi^{-4} *m83^{-1} \\
& - 121/34560^*C*\ln(6)^*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} *m83^{-1} - 1/144^*C*\ln(6)^*F^{-3} \\
& *\sin x^2*\cos x*\pi^{-4} *m83^{-1} + 1/144^*C*\ln(6)^*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} *m83^{-1} \\
& + 23/12960^*C*\ln(8)^*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} *m83^{-1} + 1/720^*C*\ln(8)^*F^{-3} \\
& *\sin x^2*\cos x*\pi^{-4} *m83^{-1} + 1/108^*C*\ln(8)^*F^{-3}*\sin x^4*\cos x*\pi^{-4} \\
& *m83^{-1} + 1/2592*\ln(3)^*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} *m83^{-1} + 4/81*\ln(3)^*F^{-3} \\
& *\sin x*\sqrt{3}*\pi^{-2} *L8r*m83^{-1} - 4/27*\ln(3)^*F^{-3}*\sin x*\sqrt{3}*\pi^{-2} *L7r*m83^{-1} \\
& + 8/27*\ln(3)^*F^{-3}*\sin x*\sqrt{3}*\pi^{-2} *L6r*m83^{-1} - 2/27*\ln(3)^*F^{-3} \\
& *\sin x*\sqrt{3}*\pi^{-2} *L5r*m83^{-1} - 1/9*\ln(3)^*F^{-3}*\sin x*\sqrt{3}*\pi^{-2} *L4r*m83^{-1} \\
& - 1/648*\ln(3)^*F^{-3}*\sin x^2*\cos x*\pi^{-4} *m83^{-1} + 176/27*\ln(3)^*F^{-3} \\
& *\sin x^2*\cos x*\pi^{-2} *L8r*m83^{-1} + 128/9*\ln(3)^*F^{-3}*\sin x^2*\cos x*\pi^{-2} \\
& *L7r*m83^{-1} - 4/27*\ln(3)^*F^{-3}*\sin x^2*\cos x*\pi^{-2} *L5r*m83^{-1} + 1/162*\ln(3)^*F^{-3} \\
& *\sin x^4*\cos x*\pi^{-4} *m83^{-1} + 544/27*\ln(3)^*F^{-3}*\sin x^4*\cos x*\pi^{-2} *L8r*m83^{-1} \\
& + 128/3*\ln(3)^*F^{-3}*\sin x^4*\cos x*\pi^{-2} *L7r*m83^{-1} + 64/9*\ln(3)^*F^{-3} \\
& *\sin x^4*\cos x*\pi^{-2} *L6r*m83^{-1} - 56/27*\ln(3)^*F^{-3}*\sin x^4*\cos x*\pi^{-2} \\
& *L5r*m83^{-1} - 8/3*\ln(3)^*F^{-3}*\sin x^4*\cos x*\pi^{-2} *L4r*m83^{-1} - 256/27*\ln(3)^*F^{-3} \\
& *\sin x^6*\cos x*\pi^{-2} *L8r*m83^{-1} - 256/9*\ln(3)^*F^{-3}*\sin x^6*\cos x*\pi^{-2} \\
& *L7r*m83^{-1} - 19/124416*\ln(3)^2^*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} *m83^{-1} - 47/20736*\ln(3)^2^*F^{-3} \\
& *\sin x^2*\cos x*\pi^{-4} *m83^{-1} - 7/1296*\ln(3)^2^*F^{-3}*\sin x^4*\cos x*\pi^{-4} *m83^{-1} \\
& - 17/1296*\ln(3)^2^*F^{-3}*\sin x^6*\cos x*\pi^{-4} *m83^{-1} + 1/81*\ln(3)^2^*F^{-3} \\
& *\sin x^8*\cos x*\pi^{-4} *m83^{-1} - 11/10368*\ln(3)^*\ln(4)^*F^{-3}*\cos x*\pi^{-4} *m83^{-1} \\
& + 493/207360*\ln(3)^*\ln(4)^*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} *m83^{-1} - 1/5760*\ln(3)^*\ln(4)^*F^{-3} \\
& *\sin x^2*\cos x*\pi^{-4} *m83^{-1} + 29/17280*\ln(3)^*\ln(4)^*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& *m83^{-1} - 23/1296*\ln(3)^*\ln(4)^*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} *m83^{-1} + 1/108*\ln(3)^*\ln(4)^*F^{-3} \\
& *\sin x^6*\cos x*\pi^{-4} *m83^{-1} + 1/72*\ln(3)^*\ln(4)^*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4} \\
& *m83^{-1} + 11/10368*\ln(3)^*\ln(6)^*F^{-3}*\cos x*\pi^{-4} *m83^{-1} - 43/23040*\ln(3)^*\ln(6)^*F^{-3} \\
& *\sin x*\sqrt{3}*\pi^{-4} *m83^{-1} - 1/5760*\ln(3)^*\ln(6)^*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& *m83^{-1} - 29/17280*\ln(3)^*\ln(6)^*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} *m83^{-1} + \\
& 23/1296*\ln(3)^*\ln(6)^*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} *m83^{-1} + 1/108*\ln(3)^*\ln(6)^*F^{-3} \\
& *\sin x^6*\cos x*\pi^{-4} *m83^{-1} - 1/72*\ln(3)^*\ln(6)^*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4} \\
& *m83^{-1} + 7/62208*\ln(3)^*\ln(8)^*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} *m83^{-1} - 1/1152*\ln(3)^*\ln(8)^*F^{-3} \\
& *\sin x^2*\cos x*\pi^{-4} *m83^{-1} - 1/81*\ln(3)^*\ln(8)^*F^{-3}*\sin x^4*\cos x*\pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*m83^{-1} + 25/648*\ln(3)*\ln(8)*F^{-3}*\sinx^6*\cosx*\pi^{-4}^*m83^{-1} - 2/81*\ln(3)*\ln(8)*F^{-3}*\sinx^8*\cosx*\pi^{-4}^*m83^{-1} \\
& - 5/3456*\ln(4)*F^{-3}*\cosx*\pi^{-4}^*m83^{-1} - 29/18*\ln(4)*F^{-3}*\cosx*\pi^{-2}^*L8r^*m83^{-1} - 4*\ln(4)*F^{-3}*\cosx*\pi^{-2}^*L7r^*m83^{-1} \\
& + 2/3*\ln(4)*F^{-3}*\cosx*\pi^{-2}^*L6r^*m83^{-1} + 13/36*\ln(4)*F^{-3}*\cosx*\pi^{-2}^*L5r^*m83^{-1} \\
& - 1/4*\ln(4)*F^{-3}*\cosx*\pi^{-2}^*L4r^*m83^{-1} - 1/24*\ln(4)*F^{-3}*\cosx*\pi^{-2}^*L3r^*m83^{-1} \\
& + 1/192*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}^*m83^{-1} + 62/27*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}^*L8r^*m83^{-1} \\
& + 53/6*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}^*L7r^*m83^{-1} - 34/9*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}^*L6r^*m83^{-1} \\
& - 13/108*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}^*L5r^*m83^{-1} + 17/12*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}^*L4r^*m83^{-1} \\
& + 5/18*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}^*L3r^*m83^{-1} + 1/1152*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-4}^*m83^{-1} \\
& + 136/9*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}^*L8r^*m83^{-1} + 24*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}^*L7r^*m83^{-1} \\
& + 16/3*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}^*L6r^*m83^{-1} - 26/9*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}^*L5r^*m83^{-1} \\
& - 2*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}^*L4r^*m83^{-1} - 1/3*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}^*L3r^*m83^{-1} \\
& - 89/10368*\ln(4)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}^*m83^{-1} + 136/27*\ln(4)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}^*L7r^*m83^{-1} \\
& + 16/3*\ln(4)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}^*L6r^*m83^{-1} - 2/9*\ln(4)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}^*L5r^*m83^{-1} \\
& - 2*\ln(4)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}^*L4r^*m83^{-1} - 1/3*\ln(4)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}^*L3r^*m83^{-1} \\
& + 1/324*\ln(4)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}^*m83^{-1} - 160/9*\ln(4)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-2}^*L8r^*m83^{-1} \\
& - 23/18432*\ln(4)^2*F^{-3}*\cosx*\pi^{-4}^*m83^{-1} - 1183/829440*\ln(4)^2*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}^*m83^{-1} \\
& + 23/3456*\ln(4)^2*F^{-3}*\sinx^2*\cosx*\pi^{-4}^*m83^{-1} - 17/3456*\ln(4)^2*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}^*m83^{-1} \\
& - 5/288*\ln(4)^2*F^{-3}*\sinx^4*\cosx*\pi^{-4}^*m83^{-1} + 5/864*\ln(4)^2*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}^*m83^{-1} \\
& - 1/384*\ln(4)*\ln(6)*F^{-3}*\cosx*\pi^{-4}^*m83^{-1} + 739/414720*\ln(4)*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}^*m83^{-1} \\
& - 17/1728*\ln(4)*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-4}^*m83^{-1} + 5/144*\ln(4)*\ln(6)*F^{-3}*\sinx^4*\cosx*\pi^{-4}^*m83^{-1} \\
& + 77/103680*\ln(4)*\ln(8)*F^{-3}*\cosx*\pi^{-4}^*m83^{-1} + 77/103680*\ln(4)*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}^*m83^{-1} \\
& + 223/17280*\ln(4)*\ln(8)*F^{-3}*\sinx^2*\cosx*\pi^{-4}^*m83^{-1} - 607/51840*\ln(4)*\ln(8)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}^*m83^{-1} \\
& + 11/432*\ln(4)*\ln(8)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}^*m83^{-1} - 1/108*\ln(4)*\ln(8)*F^{-3}*\sinx^6*\cosx*\pi^{-4}^*m83^{-1} \\
& - 1/72*\ln(4)*\ln(8)*F^{-3}*\sinx^7*\sqrt{3}*\pi^{-4}^*m83^{-1} + 5/3456*\ln(6)*F^{-3}*\cosx*\pi^{-4}^*m83^{-1} \\
& + 29/18*\ln(6)*F^{-3}*\cosx*\pi^{-2}^*L8r^*m83^{-1} + 4*\ln(6)*F^{-3}*\cosx*\pi^{-2}^*L7r^*m83^{-1} - 2/3*\ln(6)*F^{-3}*\cosx*\pi^{-2}^*L6r^*m83^{-1} \\
& - 13/36*\ln(6)*F^{-3}*\cosx*\pi^{-2}^*L5r^*m83^{-1} + 1/4*\ln(6)*F^{-3}*\cosx*\pi^{-2}^*L4r^*m83^{-1} \\
& + 1/24*\ln(6)*F^{-3}*\cosx*\pi^{-2}^*L3r^*m83^{-1} - 5/864*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}^*m83^{-1} - 40/27*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}^*L8r^*m83^{-1} \\
& - 17/2*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}^*L7r^*m83^{-1} + 38/9*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}^*L6r^*m83^{-1} - 37/108*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}^*L5r^*m83^{-1} \\
& - 19/12*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}^*L4r^*m83^{-1} - 7/18*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}^*L3r^*m83^{-1} + 1/1152*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-4}^*m83^{-1} \\
& + 136/9*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}^*L8r^*m83^{-1} + 24*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}^*L7r^*m83^{-1} \\
& + 16/3*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}^*L6r^*m83^{-1} - 26/9*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}^*L5r^*m83^{-1} \\
& - 2*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}^*L4r^*m83^{-1} - 1/3*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}^*L3r^*m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^2 * \cos x * \pi^2 * L3r * m83^{-1} + 89/10368 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * m83^{-1} - 136/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^2 * L8r * m83^{-1} - 88/9 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^2 * L7r * m83^{-1} - 16/3 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^2 * L6r * m83^{-1} + 2/9 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^2 * L5r * m83^{-1} + 2 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^2 * L4r * m83^{-1} + 1/3 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^2 * L3r * m83^{-1} - 1/324 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^4 * m83^{-1} + 160/27 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^2 * L8r * m83^{-1} + 160/9 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^2 * L7r * m83^{-1} + 25/18432 * \ln(6)^2 * F^{-3} * \cos x * \pi^4 * m83^{-1} + 581/829440 * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-1} + 23/3456 * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-1} + 17/3456 * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * m83^{-1} - 5/288 * \ln(6)^2 * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-1} - 5/864 * \ln(6)^2 * F^{-3} * \sin x^5 * \sqrt{3} * \pi^4 * m83^{-1} - 7/20736 * \ln(6) * \ln(8) * F^{-3} * \cos x * \pi^4 * m83^{-1} + 49/103680 * \ln(6) * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-1} + 223/17280 * \ln(6) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-1} + 607/51840 * \ln(6) * \ln(8) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * m83^{-1} - 11/432 * \ln(6) * \ln(8) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^4 * m83^{-1} - 1/108 * \ln(6) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^4 * m83^{-1} + 1/72 * \ln(6) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^4 * m83^{-1} + 1/7776 * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-1} + 8/9 * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L8r * m83^{-1} + 16/9 * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L7r * m83^{-1} - 22/81 * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L5r * m83^{-1} + 1/144 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-1} + 16 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L8r * m83^{-1} + 224/9 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L7r * m83^{-1} + 64/9 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L6r * m83^{-1} - 100/27 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L5r * m83^{-1} - 8/3 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L4r * m83^{-1} - 1/162 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-1} - 544/27 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^2 * L8r * m83^{-1} - 128/3 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^2 * L7r * m83^{-1} - 64/9 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^2 * L6r * m83^{-1} + 56/27 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^2 * L5r * m83^{-1} + 8/3 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^2 * L4r * m83^{-1} + 256/27 * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^4 * m83^{-1} + 256/9 * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^2 * L7r * m83^{-1} - 47/124416 * \ln(8)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-1} - 143/20736 * \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-1} + 23/1296 * \ln(8)^2 * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-1} - 11/432 * \ln(8)^2 * F^{-3} * \sin x^6 * \cos x * \pi^4 * m83^{-1} + 1/81 * \ln(8)^2 * F^{-3} * \sin x^8 * \cos x * \pi^4 * m83^{-1} + 1/4608 * (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-1} + 1/540 * (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-1} + 17/122880 * (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \cos x * \pi^4 * m83^{-1} - 13/92160 * (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-1} + 7/7680 * (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-1} + 1/1536 * (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * m83^{-1} - 13/122880 * (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \cos x * \pi^4 * m83^{-1} - 43/552960 * (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-1} + 41/23040 * (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-1} + 1/1536 * (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * m83^{-1} - 257/122880 * (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \cos x * \pi^4 * m83^{-1} - 13/36864 * (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-1} + 7/7680 * (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-1} - 1/1536 * (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * m83^{-1} - 287/122880 * (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \cos x * \pi^4 * m83^{-1} - 1/3456 * (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-1} + 41/23040 * (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-1} - 1/1536 * (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * m83^{-1} - 1/256 * (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \cos x * \pi^4 * m83^{-1} - 103/207360 * (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-1} + 1/360 * (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-1} - 1/540 * (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^4*\cos x*\pi^{-4}) \\
& + \text{mud}*\text{mkp}2^3 * (- 5/1728*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/10368*F^{-} \\
& 3^*\sin x*\sqrt{3}*\pi^{-2}*m83^{-2} - 4096/81*F^{-3}*\sin x*\sqrt{3}*L8r^2*m83^{-2} - \\
& 8192/9*F^{-3}*\sin x*\sqrt{3}*L7r*L8r*m83^{-2} - 20480/9*F^{-3}*\sin x*\sqrt{3}*L7r^2*m83^{-} \\
& 2 + 4096/27*F^{-3}*\sin x*\sqrt{3}*L6r*L8r*m83^{-2} + 4096/9*F^{-3}*\sin x*\sqrt{3}*L6r*L7r*m83^{-} \\
& 2 + 4096/81*F^{-3}*\sin x*\sqrt{3}*L5r*L8r*m83^{-2} + 4096/27*F^{-3}*\sin x*\sqrt{3}*L5r*L7r*m83^{-} \\
& 2 + 4096/27*F^{-3}*\sin x*\sqrt{3}*L4r*L8r*m83^{-2} + 4096/9*F^{-3}*\sin x*\sqrt{3}*L4r*L7r*m83^{-} \\
& 2 + 458752/81*F^{-3}*\sin x^2*\cos x*L8r^2*m83^{-2} + 327680/9*F^{-3}*\sin x^2*\cos x*L7r*L8r*m83^{-} \\
& 2 + 524288/9*F^{-3}*\sin x^2*\cos x*L7r^2*m83^{-2} - 65536/27*F^{-3}*\sin x^2*\cos x*L6r*L8r*m83^{-} \\
& 2 - 65536/9*F^{-3}*\sin x^2*\cos x*L6r*L7r*m83^{-2} + 32768/81*F^{-3}*\sin x^2*\cos x*L5r*L8r*m83^{-} \\
& 2 + 32768/27*F^{-3}*\sin x^2*\cos x*L5r*L7r*m83^{-2} + 32768/27*F^{-3}*\sin x^2*\cos x*L4r*L8r*m83^{-} \\
& 2 + 32768/9*F^{-3}*\sin x^2*\cos x*L4r*L7r*m83^{-2} - 262144/27*F^{-3}*\sin x^4*\cos x*L8r^2*m83^{-} \\
& 2 - 524288/9*F^{-3}*\sin x^4*\cos x*L7r*L8r*m83^{-2} - 262144/3*F^{-3}*\sin x^4*\cos x*L7r^2*m83^{-} \\
& 2 - 16/9*C*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 16/3*C*F^{-3}*\sin x*\sqrt{3}*\pi^{-} \\
& 2*L7r*m83^{-2} + 5/3888*C*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 2/243*C*\ln(3)*F^{-} \\
& 3^*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 1/1728*C*\ln(4)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} \\
& - 5/1728*C*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/1728*C*\ln(6)*F^{-} \\
& 3^*\cos x*\pi^{-4}*m83^{-2} + 11/1728*C*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 1/972*C*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 2/243*C*\ln(8)*F^{-} \\
& 3^*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 128/243*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-} \\
& 2 - 32/27*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 16/243*\ln(3)*F^{-} \\
& 3^*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} - 8/81*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-} \\
& 2 - 640/243*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} - 896/81*\ln(3)*F^{-} \\
& 3^*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} + 128/81*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-} \\
& 2*L6r*m83^{-2} + 64/81*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} - 1280/81*\ln(3)*F^{-} \\
& 3^*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} - 4096/81*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-} \\
& 2*L7r*m83^{-2} + 256/81*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-2} - \\
& 128/243*\ln(3)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-2} - 128/81*\ln(3)*F^{-} \\
& 3^*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-2} + 2048/81*\ln(3)*F^{-3}*\sin x^6*\cos x*\pi^{-} \\
& 2*L8r*m83^{-2} + 2048/27*\ln(3)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-2} \\
& + 1/2592*\ln(3)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/972*\ln(3)^2*F^{-} \\
& 3^*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 1/729*\ln(3)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-} \\
& 2 + 8/729*\ln(3)^2*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} - 4/243*\ln(3)^2*F^{-} \\
& 3^*\sin x^8*\cos x*\pi^{-4}*m83^{-2} + 19/15552*\ln(3)*\ln(4)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} \\
& - 131/46656*\ln(3)*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 7/1944*\ln(3)*\ln(4)*F^{-} \\
& 3^*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 37/5832*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-} \\
& 4*m83^{-2} + 1/54*\ln(3)*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 47/1458*\ln(3)*\ln(4)*F^{-} \\
& 3^*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 2/81*\ln(3)*\ln(4)*F^{-3}*\sin x^6*\cos x*\pi^{-} \\
& 4*m83^{-2} - 2/81*\ln(3)*\ln(4)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} - 19/15552*\ln(3)*\ln(6)*F^{-} \\
& 3^*\cos x*\pi^{-4}*m83^{-2} + 173/46656*\ln(3)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 7/1944*\ln(3)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 37/5832*\ln(3)*\ln(6)*F^{-} \\
& 3^*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/54*\ln(3)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-} \\
& 4*m83^{-2} - 47/1458*\ln(3)*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 2/81*\ln(3)*\ln(6)*F^{-} \\
& 3^*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 2/81*\ln(3)*\ln(6)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-} \\
& 4*m83^{-2} - 1/11664*\ln(3)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 7/1458*\ln(3)*\ln(8)*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 4/243 * \ln(3) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} - 40/729 * \ln(3) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} + 8/243 * \ln(3) * \ln(8) * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-2} - 116/81 * \ln(4) * F^{-3} * \cos x * \pi^{-2} * L8r * m83^{-2} - 116/27 * \ln(4) * F^{-3} * \cos x * \pi^{-2} * L7r * m83^{-2} + 4/9 * \ln(4) * F^{-3} * \cos x * \pi^{-2} * L6r * m83^{-2} - 4/27 * \ln(4) * F^{-3} * \cos x * \pi^{-2} * L5r * m83^{-2} + 1564/243 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} + 1612/81 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} - 4/3 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L6r * m83^{-2} + 28/81 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L5r * m83^{-2} + 28/27 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L4r * m83^{-2} - 1088/81 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-2} - 128/3 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-2} + 64/27 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-2} - 32/81 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-2} - 32/27 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-2} - 5824/243 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} - 6016/81 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} + 64/27 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L6r * m83^{-2} - 32/81 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L5r * m83^{-2} - 32/27 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L4r * m83^{-2} + 512/27 * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-2} + 512/9 * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-2} + 512/27 * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} + 512/9 * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} + 5/1296 * \ln(4) * F^{-3} * \cos x * \pi^{-4} * m83^{-2} - 923/124416 * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/54 * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 25/972 * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} + 1/54 * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} - 1/54 * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/216 * \ln(4) * \ln(6) * F^{-3} * \cos x * \pi^{-4} * m83^{-2} - 7/20736 * \ln(4) * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} + 11/162 * \ln(4) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 2/27 * \ln(4) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} + 7/15552 * \ln(4) * \ln(8) * F^{-3} * \cos x * \pi^{-4} * m83^{-2} - 233/46656 * \ln(4) * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} + 25/1944 * \ln(4) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 71/1944 * \ln(4) * \ln(8) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} - 7/162 * \ln(4) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} - 83/1458 * \ln(4) * \ln(8) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} + 2/81 * \ln(4) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} + 2/81 * \ln(4) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-2} - 116/81 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L8r * m83^{-2} + 116/27 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L7r * m83^{-2} - 4/9 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L6r * m83^{-2} + 4/27 * \ln(6) * F^{-3} * \cos x * \pi^{-2} * L5r * m83^{-2} - 1444/243 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} - 1396/81 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} + 28/27 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L6r * m83^{-2} - 4/9 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L5r * m83^{-2} - 4/3 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L4r * m83^{-2} - 1088/81 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-2} - 128/3 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-2} + 64/27 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-2} - 32/81 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-2} - 32/27 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-2} + 5824/243 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} + 6016/81 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} - 64/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L6r * m83^{-2} + 32/81 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L5r * m83^{-2} + 32/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-2} * L4r * m83^{-2} + 512/27 * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-2} + 512/9 * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-2} - 512/27 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} - 512/9 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} +
\end{aligned}$$

$$\begin{aligned}
& 1/1296*\ln(6)^2F^{-3}\cos^*\pi^{-4}m83^{-2} + 869/124416*\ln(6)^2F^{-3}\sin^*\sqrt{3}\pi^{-4}m83^{-2} - 1/54*\ln(6)^2F^{-3}\sin^2*\cos^*\pi^{-4}m83^{-2} - 25/972*\ln(6)^2F^{-3}\sin^3*\sqrt{3}\pi^{-4}m83^{-2} + 1/54*\ln(6)^2F^{-3}\sin^4*\cos^*\pi^{-4}m83^{-2} \\
& + 1/54*\ln(6)^2F^{-3}\sin^5*\sqrt{3}\pi^{-4}m83^{-2} - 7/15552*\ln(6)*\ln(8)*F^{-3}\cos^*\pi^{-4}m83^{-2} + 167/46656*\ln(6)*\ln(8)*F^{-3}\sin^*\sqrt{3}\pi^{-4}m83^{-2} \\
& + 25/1944*\ln(6)*\ln(8)*F^{-3}\sin^2*\cos^*\pi^{-4}m83^{-2} - 71/1944*\ln(6)*\ln(8)*F^{-3}\sin^3*\sqrt{3}\pi^{-4}m83^{-2} - 7/162*\ln(6)*\ln(8)*F^{-3}\sin^4*\cos^*\pi^{-4}m83^{-2} \\
& + 83/1458*\ln(6)*\ln(8)*F^{-3}\sin^5*\sqrt{3}\pi^{-4}m83^{-2} + 2/81*\ln(6)*\ln(8)*F^{-3}\sin^6*\cos^*\pi^{-4}m83^{-2} - 2/81*\ln(6)*\ln(8)*F^{-3}\sin^7*\sqrt{3}\pi^{-4}m83^{-2} \\
& + 16/27*\ln(8)*F^{-3}\sin^*\sqrt{3}\pi^{-2}L8r^*m83^{-2} - 16/81*\ln(8)*F^{-3}\sin^*\sqrt{3}\pi^{-2}L7r^*m83^{-2} - 16/81*\ln(8)*F^{-3}\sin^*\sqrt{3}\pi^{-2}L6r^*m83^{-2} \\
& - 8/81*\ln(8)*F^{-3}\sin^*\sqrt{3}\pi^{-2}L4r^*m83^{-2} - 896/81*\ln(8)*F^{-3}\sin^2*\cos^*\pi^{-2}L8r^*m83^{-2} - 896/27*\ln(8)*F^{-3}\sin^2*\cos^*\pi^{-2}L7r^*m83^{-2} \\
& + 128/81*\ln(8)*F^{-3}\sin^2*\cos^*\pi^{-2}L6r^*m83^{-2} - 128/243*\ln(8)*F^{-3}\sin^2*\cos^*\pi^{-2}L5r^*m83^{-2} - 64/27*\ln(8)*F^{-3}\sin^2*\cos^*\pi^{-2}L4r^*m83^{-2} \\
& + 3328/81*\ln(8)*F^{-3}\sin^4*\cos^*\pi^{-2}L8r^*m83^{-2} + 10240/81*\ln(8)*F^{-3}\sin^4*\cos^*\pi^{-2}L7r^*m83^{-2} - 256/81*\ln(8)*F^{-3}\sin^4*\cos^*\pi^{-2}L6r^*m83^{-2} \\
& + 128/243*\ln(8)*F^{-3}\sin^4*\cos^*\pi^{-2}L5r^*m83^{-2} + 128/81*\ln(8)*F^{-3}\sin^4*\cos^*\pi^{-2}L4r^*m83^{-2} - 2048/81*\ln(8)*F^{-3}\sin^6*\cos^*\pi^{-2}L8r^*m83^{-2} \\
& - 2048/27*\ln(8)*F^{-3}\sin^6*\cos^*\pi^{-2}L7r^*m83^{-2} - 7/23328*\ln(8)^2F^{-3}\sin^*\sqrt{3}\pi^{-4}m83^{-2} + 13/2916*\ln(8)^2F^{-3}\sin^2*\cos^*\pi^{-4}m83^{-2} - 25/729*\ln(8)^2F^{-3}\sin^4*\cos^*\pi^{-4}m83^{-2} \\
& + 32/729*\ln(8)^2F^{-3}\sin^6*\cos^*\pi^{-4}m83^{-2} - 4/243*\ln(8)^2F^{-3}\sin^8*\cos^*\pi^{-4}m83^{-2} - 89/58320/(mass(3))*\ln(3)^2F^{-3}\sin^*\sqrt{3}\pi^{-4}m83^{-1} + 169/14580/(mass(3))*\ln(3)^2F^{-3}\sin^2*\cos^*\pi^{-4}m83^{-1} \\
& + 8/729/(mass(3))*\ln(3)^2F^{-3}\sin^4*\cos^*\pi^{-4}m83^{-1} - 95/55296/(mass(4))*\ln(4)^2F^{-3}\cos^*\pi^{-4}m83^{-1} + 427/82944/(mass(4))*\ln(4)^2F^{-3}\sin^*\sqrt{3}\pi^{-4}m83^{-1} \\
& + 61/5184/(mass(4))*\ln(4)^2F^{-3}\sin^2*\cos^*\pi^{-4}m83^{-1} - 23/5184/(mass(4))*\ln(4)^2F^{-3}\sin^3*\sqrt{3}\pi^{-4}m83^{-1} - 107/55296/(mass(5))*\ln(4)^2F^{-3}\cos^*\pi^{-4}m83^{-1} + 445/82944/(mass(5))*\ln(4)^2F^{-3}\sin^*\sqrt{3}\pi^{-4}m83^{-1} \\
& + 61/5184/(mass(5))*\ln(4)^2F^{-3}\sin^2*\cos^*\pi^{-4}m83^{-1} - 23/5184/(mass(5))*\ln(4)^2F^{-3}\sin^3*\sqrt{3}\pi^{-4}m83^{-1} + 95/55296/(mass(6))*\ln(6)^2F^{-3}\cos^*\pi^{-4}m83^{-1} - 83/15360/(mass(6))*\ln(6)^2F^{-3}\sin^*\sqrt{3}\pi^{-4}m83^{-1} \\
& + 61/5184/(mass(6))*\ln(6)^2F^{-3}\sin^2*\cos^*\pi^{-4}m83^{-1} + 23/5184/(mass(6))*\ln(6)^2F^{-3}\sin^3*\sqrt{3}\pi^{-4}m83^{-1} + 107/55296/(mass(7))*\ln(6)^2F^{-3}\cos^*\pi^{-4}m83^{-1} - 757/138240/(mass(7))*\ln(6)^2F^{-3}\sin^*\sqrt{3}\pi^{-4}m83^{-1} \\
& + 61/5184/(mass(7))*\ln(6)^2F^{-3}\sin^2*\cos^*\pi^{-4}m83^{-1} + 23/5184/(mass(7))*\ln(6)^2F^{-3}\sin^3*\sqrt{3}\pi^{-4}m83^{-1} + 91/116640/(mass(8))*\ln(8)^2F^{-3}\sin^*\sqrt{3}\pi^{-4}m83^{-1} + 251/14580/(mass(8))*\ln(8)^2F^{-3}\sin^2*\cos^*\pi^{-4}m83^{-1} - 8/729/(mass(8))*\ln(8)^2F^{-3}\sin^4*\cos^*\pi^{-4}m83^{-1}) \\
& + \text{mud}*\text{mkp}2^4 * (- 7/5832/(mass(3))*\ln(3)^2F^{-3}\sin^*\sqrt{3}\pi^{-4}m83^{-2} + 5/1458/(mass(3))*\ln(3)^2F^{-3}\sin^2*\cos^*\pi^{-4}m83^{-2} - 1/3456/(mass(4))*\ln(4)^2F^{-3}\cos^*\pi^{-4}m83^{-2} + 5/3456/(mass(4))*\ln(4)^2F^{-3}\sin^*\sqrt{3}\pi^{-4}m83^{-2} + 1/3456/(mass(6))*\ln(6)^2F^{-3}\cos^*\pi^{-4}m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 4*m83^{-2} - 5/1152/(mass(6))*ln(6)^2*F^{-3}*sinx*sqrt3*pi^{-4}*m83^{-2} - \\
& 1/2916/(mass(8))*ln(8)^2*F^{-3}*sinx*sqrt3*pi^{-4}*m83^{-2} - 5/1458/(mass(8))*ln(8)^2*F^{-3}*sinx^2*cosx*pi^{-4}*m83^{-2}) \\
& + mud*mpp2 * (+ 11/49152*F^{-3}*cosx*pi^{-4} - 1/24576*F^{-3}*cosx*pi^{-2} + \\
& 3/4*F^{-3}*cosx*pi^{-2}*L6r - 3/8*F^{-3}*cosx*pi^{-2}*L4r - 1/36*F^{-3}*cosx*pi^{-2}*L3r - 1/18*F^{-3}*cosx*pi^{-2}*L2r - 1/18*F^{-3}*cosx*pi^{-2}*L1r - 32/9*F^{-3}*cosx*L5r^2 + 16/3*F^{-3}*cosx*L4r*L5r + 16*F^{-3}*cosx*L4r^2 + 64/3*F^{-3}*cosx*CC18 + 32/3*F^{-3}*cosx*CC17 + 16*F^{-3}*cosx*CC16 - 8/3*F^{-3}*cosx*CC15 + 32/3*F^{-3}*cosx*CC14 - 11/276480*F^{-3}*sinx*sqrt3*pi^{-4} - 67/3317760*F^{-3}*sinx*sqrt3*pi^{-2} + 1/36*F^{-3}*sinx*sqrt3*pi^{-2}*L8r + 1/4*F^{-3}*sinx*sqrt3*pi^{-2}*L6r - 1/72*F^{-3}*sinx*sqrt3*pi^{-2}*L5r - 1/8*F^{-3}*sinx*sqrt3*pi^{-2}*L4r + 5/864*F^{-3}*sinx*sqrt3*pi^{-2}*L3r + 1/72*F^{-3}*sinx*sqrt3*pi^{-2}*L2r + 1/36*F^{-3}*sinx*sqrt3*pi^{-2}*L1r + 16/9*F^{-3}*sinx*sqrt3*L5r^2 + 16/3*F^{-3}*sinx*sqrt3*L4r*L5r - 16/3*F^{-3}*sinx*sqrt3*CC18 - 32/9*F^{-3}*sinx*sqrt3*CC17 - 8/3*F^{-3}*sinx*sqrt3*CC15 - 32/9*F^{-3}*sinx*sqrt3*CC14 - 89/69120*F^{-3}*sinx^2*cosx*pi^{-4} - 7/12960*F^{-3}*sinx^2*cosx*pi^{-2} + 4/9*F^{-3}*sinx^2*cosx*pi^{-2}*L8r - 2/9*F^{-3}*sinx^2*cosx*pi^{-2}*L5r - 1/18*F^{-3}*sinx^2*cosx*pi^{-2}*L3r + 256/3*F^{-3}*sinx^2*cosx*CC18 + 256/9*F^{-3}*sinx^2*cosx*CC17 + 256/9*F^{-3}*sinx^2*cosx*CC14 + 125/248832*C*F^{-3}*sinx*sqrt3*pi^{-4} + 1/18*C*F^{-3}*sinx*sqrt3*pi^{-2}*L8r - 1/18*C*F^{-3}*sinx*sqrt3*pi^{-2}*L5r + 125/15552*C*F^{-3}*sinx^2*cosx*pi^{-4} + 8/9*C*F^{-3}*sinx^2*cosx*pi^{-2}*L8r - 8/9*C*F^{-3}*sinx^2*cosx*pi^{-2}*L5r - 23/138240*C^2*F^{-3}*sinx*sqrt3*pi^{-4} - 23/8640*C^2*F^{-3}*sinx^2*cosx*pi^{-4} - 1/2304*C*ln(1)*F^{-3}*sinx*sqrt3*pi^{-4} + 1/1440*C*ln(1)*F^{-3}*sinx^2*cosx*pi^{-4} + 1/7680*C*ln(3)*F^{-3}*sinx*sqrt3*pi^{-4} + 1/320*C*ln(3)*F^{-3}*sinx^2*cosx*pi^{-4} + 1/480*C*ln(3)*F^{-3}*sinx^4*cosx*pi^{-4} - 31/92160*C*ln(4)*F^{-3}*cosx*pi^{-4} + 31/276480*C*ln(4)*F^{-3}*sinx*sqrt3*pi^{-4} + 11/5760*C*ln(4)*F^{-3}*sinx^2*cosx*pi^{-4} + 1/8640*C*ln(4)*F^{-3}*sinx^3*sqrt3*pi^{-4} + 31/92160*C*ln(6)*F^{-3}*cosx*pi^{-4} + 167/276480*C*ln(6)*F^{-3}*sinx*sqrt3*pi^{-4} + 11/5760*C*ln(6)*F^{-3}*sinx^2*cosx*pi^{-4} - 1/8640*C*ln(6)*F^{-3}*sinx^3*sqrt3*pi^{-4} + 1/2560*C*ln(8)*F^{-3}*sinx*sqrt3*pi^{-4} + 1/192*C*ln(8)*F^{-3}*sinx^2*cosx*pi^{-4} - 1/480*C*ln(8)*F^{-3}*sinx^4*cosx*pi^{-4} - 1/3072*ln(1)*F^{-3}*sinx*sqrt3*pi^{-4} + 1/24*ln(1)*F^{-3}*sinx*sqrt3*pi^{-2}*L5r + 1/3072*ln(1)*F^{-3}*sinx^2*cosx*pi^{-4} - 1/3*ln(1)*F^{-3}*sinx^2*cosx*pi^{-2}*L6r - 1/36*ln(1)*F^{-3}*sinx^2*cosx*pi^{-2}*L5r + 1/4*ln(1)*F^{-3}*sinx^2*cosx*pi^{-2}*L4r - 7/138240*ln(1)*ln(3)*F^{-3}*sinx*sqrt3*pi^{-4} + 7/69120*ln(1)*ln(3)*F^{-3}*sinx^2*cosx*pi^{-4} - 1/17280*ln(1)*ln(3)*F^{-3}*sinx^4*cosx*pi^{-4} - 13/61440*ln(1)*ln(4)*F^{-3}*cosx*pi^{-4} + 11/92160*ln(1)*ln(4)*F^{-3}*sinx*sqrt3*pi^{-4} + 7/23040*ln(1)*ln(4)*F^{-3}*sinx^2*cosx*pi^{-4} + 1/5760*ln(1)*ln(4)*F^{-3}*sinx^3*sqrt3*pi^{-4} - 1/2304*ln(1)*ln(4)*F^{-3}*sinx^5*sqrt3*pi^{-4} + 13/61440*ln(1)*ln(6)*F^{-3}*cosx*pi^{-4} - 31/92160*ln(1)*ln(6)*F^{-3}*sinx*sqrt3*pi^{-4} + 7/23040*ln(1)*ln(6)*F^{-3}*sinx^2*cosx*pi^{-4} - 1/5760*ln(1)*ln(6)*F^{-3}*sinx^3*sqrt3*pi^{-4} + 1/2304*ln(1)*ln(6)*F^{-3}*sinx^5*sqrt3*pi^{-4} + 7/138240*ln(1)*ln(8)*F^{-3}*sinx*sqrt3*pi^{-4} + 1/23040*ln(1)*ln(8)*F^{-3}*sinx^2*cosx*pi^{-4} + 1/17280*ln(1)*ln(8)*F^{-3}*sinx^4*cosx*pi^{-4} - 17/55296*ln(3)*F^{-3}*sinx*sqrt3*pi^{-4} + 1/72*ln(3)*F^{-3}*sinx*sqrt3*pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 2^*L5r - 1/18^*\ln(3)^*F^{-3}*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L4r + 1/36^*\ln(3)^*F^{-3}*\sin x^*\sqrt{3}*\pi^{\wedge-} \\
& 2^*L3r + 1/36^*\ln(3)^*F^{-3}*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L2r + 1/9^*\ln(3)^*F^{-3}*\sin x^*\sqrt{3}*\pi^{\wedge-} \\
& 2^*L1r + 1/1152^*\ln(3)^*F^{-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} - 4/27^*\ln(3)^*F^{-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-} \\
& 2^*L5r + 1/3456^*\ln(3)^*F^{-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} - 2/27^*\ln(3)^*F^{-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-} \\
& 2^*L5r + 11/552960^*\ln(3)^*\ln(4)^*F^{-3}*\cos x^*\pi^{\wedge-4} + 35/331776^*\ln(3)^*\ln(4)^*F^{-} \\
& 3^*\sin x^*\sqrt{3}*\pi^{\wedge-4} + 17/138240^*\ln(3)^*\ln(4)^*F^{-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} - \\
& 31/138240^*\ln(3)^*\ln(4)^*F^{-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-4} + 1/51840^*\ln(3)^*\ln(4)^*F^{-} \\
& 3^*\sin x^{\wedge 5}*\sqrt{3}*\pi^{\wedge-4} - 11/552960^*\ln(3)^*\ln(6)^*F^{-3}*\cos x^*\pi^{\wedge-4} - 637/1658880^*\ln(3)^*\ln(6)^*F^{-} \\
& 3^*\sin x^*\sqrt{3}*\pi^{\wedge-4} + 17/138240^*\ln(3)^*\ln(6)^*F^{-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + \\
& 31/138240^*\ln(3)^*\ln(6)^*F^{-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-4} - 1/51840^*\ln(3)^*\ln(6)^*F^{-} \\
& 3^*\sin x^{\wedge 5}*\sqrt{3}*\pi^{\wedge-4} + 7/24576^*\ln(4)^*F^{-3}*\cos x^*\pi^{\wedge-4} - 1/24^*\ln(4)^*F^{-} \\
& 3^*\cos x^*\pi^{\wedge-2}*L8r - 1/24^*\ln(4)^*F^{-3}*\cos x^*\pi^{\wedge-2}*L6r + 5/288^*\ln(4)^*F^{-} \\
& 3^*\cos x^*\pi^{\wedge-2}*L5r + 1/32^*\ln(4)^*F^{-3}*\cos x^*\pi^{\wedge-2}*L4r + 1/32^*\ln(4)^*F^{-} \\
& 3^*\cos x^*\pi^{\wedge-2}*L3r - 7/73728^*\ln(4)^*F^{-3}*\sin x^*\sqrt{3}*\pi^{\wedge-4} + 1/72^*\ln(4)^*F^{-} \\
& 3^*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L8r + 1/72^*\ln(4)^*F^{-3}*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L6r - 5/864^*\ln(4)^*F^{-} \\
& 3^*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L5r - 1/96^*\ln(4)^*F^{-3}*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L4r - 1/96^*\ln(4)^*F^{-} \\
& 3^*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L3r - 3/2048^*\ln(4)^*F^{-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 2/9^*\ln(4)^*F^{-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*L8r + 1/6^*\ln(4)^*F^{-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*L6r - 7/72^*\ln(4)^*F^{-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*L5r - 1/8^*\ln(4)^*F^{-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*L4r - 1/6^*\ln(4)^*F^{-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*L3r + 1/18432^*\ln(4)^*F^{-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-4} - \\
& 1/18^*\ln(4)^*F^{-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2}*L6r - 1/216^*\ln(4)^*F^{-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-} \\
& 2^*L5r + 1/24^*\ln(4)^*F^{-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2}*L4r + 77/368640^*\ln(4)^{\wedge 2}*F^{-} \\
& 3^*\cos x^*\pi^{\wedge-4} - 53/276480^*\ln(4)^{\wedge 2}*F^{-3}*\sin x^*\sqrt{3}*\pi^{\wedge-4} - 19/23040^*\ln(4)^{\wedge 2}*F^{-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} - 1/27648^*\ln(4)^{\wedge 2}*F^{-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-4} - 1/4608^*\ln(4)^{\wedge 2}*F^{-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} + 1/4608^*\ln(4)^{\wedge 2}*F^{-3}*\sin x^{\wedge 5}*\sqrt{3}*\pi^{\wedge-4} + 1/5120^*\ln(4)^*\ln(6)^*F^{-} \\
& 3^*\sin x^*\sqrt{3}*\pi^{\wedge-4} + 1/2880^*\ln(4)^*\ln(6)^*F^{-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 1/2304^*\ln(4)^*\ln(6)^*F^{-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} + 11/552960^*\ln(4)^*\ln(8)^*F^{-3}*\cos x^*\pi^{\wedge-4} - 197/1658880^*\ln(4)^*\ln(8)^*F^{-} \\
& 3^*\sin x^*\sqrt{3}*\pi^{\wedge-4} - 43/138240^*\ln(4)^*\ln(8)^*F^{-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + \\
& 103/414720^*\ln(4)^*\ln(8)^*F^{-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-4} - 1/51840^*\ln(4)^*\ln(8)^*F^{-} \\
& 3^*\sin x^{\wedge 5}*\sqrt{3}*\pi^{\wedge-4} - 25/24576^*\ln(6)^*F^{-3}*\cos x^*\pi^{\wedge-4} + 1/24^*\ln(6)^*F^{-} \\
& 3^*\cos x^*\pi^{\wedge-2}*L8r + 19/24^*\ln(6)^*F^{-3}*\cos x^*\pi^{\wedge-2}*L6r - 23/288^*\ln(6)^*F^{-} \\
& 3^*\cos x^*\pi^{\wedge-2}*L5r - 19/32^*\ln(6)^*F^{-3}*\cos x^*\pi^{\wedge-2}*L4r - 1/32^*\ln(6)^*F^{-} \\
& 3^*\cos x^*\pi^{\wedge-2}*L3r + 1/73728^*\ln(6)^*F^{-3}*\sin x^*\sqrt{3}*\pi^{\wedge-4} + 1/72^*\ln(6)^*F^{-} \\
& 3^*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L8r + 17/72^*\ln(6)^*F^{-3}*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L6r + 11/864^*\ln(6)^*F^{-} \\
& 3^*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L5r - 17/96^*\ln(6)^*F^{-3}*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L4r - 1/96^*\ln(6)^*F^{-} \\
& 3^*\sin x^*\sqrt{3}*\pi^{\wedge-2}*L3r - 3/2048^*\ln(6)^*F^{-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 2/9^*\ln(6)^*F^{-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*L8r + 1/6^*\ln(6)^*F^{-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*L6r - 7/72^*\ln(6)^*F^{-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*L5r - 1/8^*\ln(6)^*F^{-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*L4r - 1/6^*\ln(6)^*F^{-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*L3r - 1/18432^*\ln(6)^*F^{-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-4} + \\
& 1/18^*\ln(6)^*F^{-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2}*L6r + 1/216^*\ln(6)^*F^{-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-} \\
& 2^*L5r - 1/24^*\ln(6)^*F^{-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-2}*L4r - 77/368640^*\ln(6)^{\wedge 2}*F^{-} \\
& 3^*\cos x^*\pi^{\wedge-4} + 47/276480^*\ln(6)^{\wedge 2}*F^{-3}*\sin x^*\sqrt{3}*\pi^{\wedge-4} - 19/23040^*\ln(6)^{\wedge 2}*F^{-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 1/27648^*\ln(6)^{\wedge 2}*F^{-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-4} - 1/4608^*\ln(6)^{\wedge 2}*F^{-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} - 1/4608^*\ln(6)^{\wedge 2}*F^{-3}*\sin x^{\wedge 5}*\sqrt{3}*\pi^{\wedge-4} - 191/552960^*\ln(6)^*\ln(8)^*F^{-} \\
& 3^*\cos x^*\pi^{\wedge-4} + 91/331776^*\ln(6)^*\ln(8)^*F^{-3}*\sin x^*\sqrt{3}*\pi^{\wedge-4} - 43/138240^*\ln(6)^*\ln(8)^*F^{-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} - 103/414720^*\ln(6)^*\ln(8)^*F^{-3}*\sin x^{\wedge 3}*\sqrt{3}*\pi^{\wedge-4} +
\end{aligned}$$

$$\begin{aligned}
& 1/51840*\ln(6)*\ln(8)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}} - 1/3072*\ln(8)*F^{-3*\cos x*\pi^{-4}} \\
& - 11/108*\ln(8)*F^{-3*\cos x*\pi^{-2}*L5r} - 1/9*\ln(8)*F^{-3*\cos x*\pi^{-2}*L4r} \\
& + 1/6*\ln(8)*F^{-3*\cos x*\pi^{-2}*L3r} + 1/3*\ln(8)*F^{-3*\cos x*\pi^{-2}*L2r} + \\
& 1/3*\ln(8)*F^{-3*\cos x*\pi^{-2}*L1r} + 5/18432*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}} + \\
& 7/216*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r} + 1/18*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r} \\
& - 1/12*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L3r} - 1/6*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L2r} \\
& - 1/6*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L1r} + 1/3456*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}} \\
& - 4/27*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r} - 1/3456*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}} \\
& + 2/27*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L5r} + 5/27*\text{Hb}(1,2,3,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} \\
& + 16/27*\text{Hb}(1,2,3,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} + 8/9*\text{Hb}(1,2,3,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} \\
& - 1/9*\text{Hb}(1,2,3,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} - 4/9*\text{Hb}(1,2,3,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} \\
& - 17/27*\text{Hb}(1,2,8,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - 16/27*\text{Hb}(1,2,8,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} \\
& - 8/9*\text{Hb}(1,2,8,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} + 1/3*\text{Hb}(1,2,8,1,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}} + \\
& 2/9*\text{Hb}(1,2,8,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} + 4/9*\text{Hb}(1,2,8,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} \\
& - 1/3*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3*\cos x*m83^{-1}} - 5/12*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} \\
& + 13/18*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} + 1/24*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3*\cos x} \\
& - 19/144*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}} - 13/36*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} \\
& - 1/3*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3*\cos x*m83^{-1}} - 5/12*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + \\
& 13/18*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} + 1/24*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3*\cos x} \\
& - 19/144*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}} - 13/36*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} \\
& + 2/9*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} - 2/9*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} \\
& - 1/9*\text{Hb}(3,1,2,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} - 1/486*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} \\
& + 52/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} + 280/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} \\
& - 256/81*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3*\sin x^6*\cos x*m83^{-1}} + 512/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3*\sin x^8*\cos x*m83^{-1}} \\
& - 32/27*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} - 32/27*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} \\
& + 512/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3*\sin x^6*\cos x} - 256/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3*\sin x^8*\cos x} \\
& + 5/162*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3*\sin x^8*\cos x} + 5/162*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} \\
& - 4/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} - 248/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} + 256/27*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3*\sin x^6*\cos x*m83^{-1}} \\
& - 512/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3*\sin x^8*\cos x*m83^{-1}} - 8/27*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} + 280/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} \\
& - 512/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3*\sin x^6*\cos x} + 256/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3*\sin x^8*\cos x} \\
& - 13/108*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3*\cos x*m83^{-1}} - 7/648*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - \\
& 1/27*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} - 65/162*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} \\
& - 1/27*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} + 5/9*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} \\
& - 11/144*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3*\cos x} - 5/36*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}} - 1/54*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} \\
& + 5/12*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3*\sin x^3*\sqrt{3}} + 1/54*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} \\
& - 5/18*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3*\sin x^5*\sqrt{3}} + 13/108*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3*\cos x*m83^{-1}} \\
& - 41/648*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} -
\end{aligned}$$

$$\begin{aligned}
& 1/27*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} + 65/162*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 1/27*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin^4*\cos^*m83^{-1} - 5/9*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} - 7/144*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\cos + 5/36*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} - 1/54*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^2*\cos - 5/12*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} + 1/54*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^4*\cos + 5/18*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3} - 5/162*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}*m83^{-1} + 4/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} + 248/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin^4*\cos^*m83^{-1} - 256/27*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin^6*\cos^*m83^{-1} + 512/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin^8*\cos^*m83^{-1} + 32/81*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos - 32/9*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin^4*\cos + 512/81*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin^6*\cos - 256/81*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin^8*\cos - 1/48*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\cos^*m83^{-1} + 1/144*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}*m83^{-1} + 1/12*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} - 1/36*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 1/96*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\cos - 1/288*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} - 1/24*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin^2*\cos + 1/72*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} - 11/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\cos^*m83^{-1} + 43/162*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}*m83^{-1} - 16/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} + 10/81*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 28/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin^4*\cos^*m83^{-1} - 4/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} - 4/9*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\cos + 1/36*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} + 13/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos - 14/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^4*\cos + 2/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3} - 1/48*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\cos^*m83^{-1} + 1/144*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}*m83^{-1} + 1/12*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} - 1/36*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 1/96*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\cos - 1/288*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} - 1/24*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin^2*\cos + 1/72*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} + 1/48*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\cos^*m83^{-1} + 11/144*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}*m83^{-1} + 1/12*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} + 1/36*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 1/96*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\cos + 7/288*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} - 1/24*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin^2*\cos - 1/72*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} + 11/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\cos^*m83^{-1} + 35/162*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}*m83^{-1} - 10/81*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + 28/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin^4*\cos^*m83^{-1} - 5/9*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\cos + 19/108*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} + 13/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin^2*\cos - 14/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin^4*\cos - 2/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin^5*\sqrt{3} + 1/48*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\cos^*m83^{-1} + 11/144*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}*m83^{-1} + 1/12*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} + 1/36*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 1/96*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\cos + 7/288*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} - 1/24*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin^2*\cos - 1/72*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin^3*\sqrt{3} + 1/6*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3}*\sin*\sqrt{3}*m83^{-1} + 1/9*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3}*\sin^2*\cos^*m83^{-1} + 2/9*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3}*\sin^4*\cos^*m83^{-1} - 1/12*\text{Hb}(8,1,2,1,\text{plext.plext})*F^{-3}*\sin*\sqrt{3} - 1/18*\text{Hb}(8,1,2,1,\text{plext.plext})*F^{-3}*\sin^2*\cos - 1/9*\text{Hb}(8,1,2,1,\text{plext.plext})*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin^4*\cos + 1/8^*\text{Hb}(8,4,5,\text{plext.plext})^*\text{F}^{-3}*\cos^*\text{m83}^{-1} - 1/12^*\text{Hb}(8,4,5,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3}*\text{m83}^{-1} - 1/18^*\text{Hb}(8,4,5,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos^*\text{m83}^{-1} \\
& + 1/9^*\text{Hb}(8,4,5,\text{plext.plext})^*\text{F}^{-3}*\sin^3*\sqrt{3}*\text{m83}^{-1} - 1/9^*\text{Hb}(8,4,5,\text{plext.plext})^*\text{F}^{-3}*\sin^4*\cos^*\text{m83}^{-1} - 1/9^*\text{Hb}(8,4,5,\text{plext.plext})^*\text{F}^{-3}*\sin^5*\sqrt{3}*\text{m83}^{-1} \\
& + 1/12^*\text{Hb}(8,4,5,1,\text{plext.plext})^*\text{F}^{-3}*\cos + 5/144^*\text{Hb}(8,4,5,1,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3} + 1/36^*\text{Hb}(8,4,5,1,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos - 1/9^*\text{Hb}(8,4,5,1,\text{plext.plext})^*\text{F}^{-3}*\sin^3*\sqrt{3} + 1/18^*\text{Hb}(8,4,5,1,\text{plext.plext})^*\text{F}^{-3}*\sin^4*\cos + 1/18^*\text{Hb}(8,4,5,1,\text{plext.plext})^*\text{F}^{-3}*\sin^5*\sqrt{3} - 1/8^*\text{Hb}(8,6,7,\text{plext.plext})^*\text{F}^{-3}*\cos^*\text{m83}^{-1} - 1/12^*\text{Hb}(8,6,7,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3}*\text{m83}^{-1} - 1/18^*\text{Hb}(8,6,7,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos^*\text{m83}^{-1} - 1/9^*\text{Hb}(8,6,7,\text{plext.plext})^*\text{F}^{-3}*\sin^3*\sqrt{3}*\text{m83}^{-1} - 1/9^*\text{Hb}(8,6,7,\text{plext.plext})^*\text{F}^{-3}*\sin^4*\cos^*\text{m83}^{-1} + 1/9^*\text{Hb}(8,6,7,\text{plext.plext})^*\text{F}^{-3}*\sin^5*\sqrt{3}*\text{m83}^{-1} + 1/6^*\text{Hb}(8,6,7,1,\text{plext.plext})^*\text{F}^{-3}*\cos - 11/144^*\text{Hb}(8,6,7,1,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3} + 1/36^*\text{Hb}(8,6,7,1,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos + 1/9^*\text{Hb}(8,6,7,1,\text{plext.plext})^*\text{F}^{-3}*\sin^3*\sqrt{3} + 1/18^*\text{Hb}(8,6,7,1,\text{plext.plext})^*\text{F}^{-3}*\sin^4*\cos - 1/18^*\text{Hb}(8,6,7,1,\text{plext.plext})^*\text{F}^{-3}*\sin^5*\sqrt{3} + 17/486^*\text{Hb}(8,8,8,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3}*\text{m83}^{-1} + 76/243^*\text{Hb}(8,8,8,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos^*\text{m83}^{-1} - 280/243^*\text{Hb}(8,8,8,\text{plext.plext})^*\text{F}^{-3}*\sin^3*\sqrt{3}*\text{m83}^{-1} + 256/81^*\text{Hb}(8,8,8,\text{plext.plext})^*\text{F}^{-3}*\sin^4*\cos^*\text{m83}^{-1} - 512/243^*\text{Hb}(8,8,8,\text{plext.plext})^*\text{F}^{-3}*\sin^5*\sqrt{3}*\text{m83}^{-1} + 28/243^*\text{Hb}(8,8,8,1,\text{plext.plext})^*\text{F}^{-3}*\cos - 2/27^*\text{Hb}(8,8,8,1,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3} - 40/81^*\text{Hb}(8,8,8,1,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos + 104/81^*\text{Hb}(8,8,8,1,\text{plext.plext})^*\text{F}^{-3}*\sin^3*\sqrt{3} - 512/243^*\text{Hb}(8,8,8,1,\text{plext.plext})^*\text{F}^{-3}*\sin^4*\cos + 256/243^*\text{Hb}(8,8,8,1,\text{plext.plext})^*\text{F}^{-3}*\sin^5*\sqrt{3}*\text{m83}^{-1} - 1/3^*\text{H21b}(1,5,6,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3}*\text{m83}^{-1} - 1/3^*\text{H21b}(1,5,6,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos^*\text{m83}^{-1} + 1/4^*\text{H21b}(1,5,6,1,\text{plext.plext})^*\text{F}^{-3}*\cos + 1/24^*\text{H21b}(1,5,6,1,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3} + 1/6^*\text{H21b}(1,5,6,1,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos - 1/3^*\text{H21b}(2,4,7,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3}*\text{m83}^{-1} - 1/3^*\text{H21b}(2,4,7,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos^*\text{m83}^{-1} + 1/4^*\text{H21b}(2,4,7,1,\text{plext.plext})^*\text{F}^{-3}*\cos + 1/24^*\text{H21b}(2,4,7,1,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3} + 1/6^*\text{H21b}(2,4,7,1,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos + 1/6^*\text{H21b}(3,1,2,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3}*\text{m83}^{-1} + 1/3^*\text{H21b}(3,1,2,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos^*\text{m83}^{-1} - 2/3^*\text{H21b}(3,1,2,\text{plext.plext})^*\text{F}^{-3}*\sin^3*\sqrt{3} - 1/12^*\text{H21b}(3,1,2,1,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3} - 1/6^*\text{H21b}(3,1,2,1,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos + 1/3^*\text{H21b}(3,1,2,1,\text{plext.plext})^*\text{F}^{-3}*\sin^3*\sqrt{3} + 1/8^*\text{H21b}(3,4,5,\text{plext.plext})^*\text{F}^{-3}*\cos^*\text{m83}^{-1} - 5/12^*\text{H21b}(3,4,5,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3}*\text{m83}^{-1} - 1/6^*\text{H21b}(3,4,5,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos^*\text{m83}^{-1} + 1/3^*\text{H21b}(3,4,5,\text{plext.plext})^*\text{F}^{-3}*\sin^3*\sqrt{3}*\text{m83}^{-1} + 1/4^*\text{H21b}(3,4,5,1,\text{plext.plext})^*\text{F}^{-3}*\cos - 1/48^*\text{H21b}(3,4,5,1,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3} + 1/12^*\text{H21b}(3,4,5,1,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos + 1/6^*\text{H21b}(3,4,5,1,\text{plext.plext})^*\text{F}^{-3}*\sin^3*\sqrt{3} - 1/6^*\text{H21b}(3,4,5,1,\text{plext.plext})^*\text{F}^{-3}*\sin^4*\cos - 1/6^*\text{H21b}(3,4,5,1,\text{plext.plext})^*\text{F}^{-3}*\sin^5*\sqrt{3} - 1/8^*\text{H21b}(3,6,7,\text{plext.plext})^*\text{F}^{-3}*\cos^*\text{m83}^{-1} + 1/4^*\text{H21b}(3,6,7,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3}*\text{m83}^{-1} - 1/6^*\text{H21b}(3,6,7,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos^*\text{m83}^{-1} + 1/3^*\text{H21b}(3,6,7,\text{plext.plext})^*\text{F}^{-3}*\sin^3*\sqrt{3}*\text{m83}^{-1} - 1/3^*\text{H21b}(3,6,7,\text{plext.plext})^*\text{F}^{-3}*\sin^4*\cos^*\text{m83}^{-1} - 1/3^*\text{H21b}(3,6,7,\text{plext.plext})^*\text{F}^{-3}*\sin^5*\sqrt{3}*\text{m83}^{-1} - 1/48^*\text{H21b}(3,6,7,1,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3} + 1/12^*\text{H21b}(3,6,7,1,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos - 1/6^*\text{H21b}(3,6,7,1,\text{plext.plext})^*\text{F}^{-3}*\sin^3*\sqrt{3} - 1/6^*\text{H21b}(3,6,7,1,\text{plext.plext})^*\text{F}^{-3}*\sin^4*\cos + 1/6^*\text{H21b}(3,6,7,1,\text{plext.plext})^*\text{F}^{-3}*\sin^5*\sqrt{3} - 1/4^*\text{H21b}(4,2,7,\text{plext.plext})^*\text{F}^{-3}*\cos^*\text{m83}^{-1} + 1/3^*\text{H21b}(4,2,7,\text{plext.plext})^*\text{F}^{-3}*\sin^*\sqrt{3}*\text{m83}^{-1} + 1/6^*\text{H21b}(4,2,7,\text{plext.plext})^*\text{F}^{-3}*\sin^2*\cos^*\text{m83}^{-1} - 1/6^*\text{H21b}(4,2,7,\text{plext.plext})^*\text{F}^{-3}*\sin^3*\sqrt{3}*\text{m83}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin^3*\sqrt{3}*m83^{-1} - 1/6*H21b(4,2,7,1,plext.plext)*F^{-3}*\sin*\sqrt{3} - \\
& 1/12*H21b(4,2,7,1,plext.plext)*F^{-3}*\sin^2*\cos + 1/12*H21b(4,2,7,1,plext.plext)*F^{-} \\
& 3^*\sin^3*\sqrt{3} - 1/4*H21b(5,1,6,plext.plext)*F^{-3}*\cos*m83^{-1} + 1/3*H21b(5,1,6,plext.plext)*F^{-} \\
& 3^*\sin*\sqrt{3}*m83^{-1} + 1/6*H21b(5,1,6,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-} \\
& 1 - 1/6*H21b(5,1,6,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 1/6*H21b(5,1,6,1,plext.plext)*F^{-} \\
& 3^*\sin*\sqrt{3} - 1/12*H21b(5,1,6,1,plext.plext)*F^{-3}*\sin^2*\cos + 1/12*H21b(5,1,6,1,plext.plext)*F^{-} \\
& 3^*\sin^3*\sqrt{3} + 1/4*H21b(6,1,5,plext.plext)*F^{-3}*\cos*m83^{-1} + 1/6*H21b(6,1,5,plext.plext)*F^{-} \\
& 3^*\sin^2*\cos*m83^{-1} + 1/6*H21b(6,1,5,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-} \\
& 1 - 1/12*H21b(6,1,5,1,plext.plext)*F^{-3}*\sin^2*\cos - 1/12*H21b(6,1,5,1,plext.plext)*F^{-} \\
& 3^*\sin^3*\sqrt{3} + 1/4*H21b(7,2,4,plext.plext)*F^{-3}*\cos*m83^{-1} + 1/6*H21b(7,2,4,plext.plext)*F^{-} \\
& 3^*\sin^2*\cos*m83^{-1} + 1/6*H21b(7,2,4,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-} \\
& 1 - 1/12*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin^2*\cos - 1/12*H21b(7,2,4,1,plext.plext)*F^{-} \\
& 3^*\sin^3*\sqrt{3} + 1/2*H21b(8,1,2,plext.plext)*F^{-3}*\sin*\sqrt{3}*m83^{-1} + \\
& 1/3*H21b(8,1,2,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-1} + 2/3*H21b(8,1,2,plext.plext)*F^{-} \\
& 3^*\sin^4*\cos*m83^{-1} - 1/4*H21b(8,1,2,1,plext.plext)*F^{-3}*\sin*\sqrt{3} - \\
& 1/6*H21b(8,1,2,1,plext.plext)*F^{-3}*\sin^2*\cos - 1/3*H21b(8,1,2,1,plext.plext)*F^{-} \\
& 3^*\sin^4*\cos + 3/8*H21b(8,4,5,plext.plext)*F^{-3}*\cos*m83^{-1} - 1/4*H21b(8,4,5,plext.plext)*F^{-} \\
& 3^*\sin*\sqrt{3}*m83^{-1} - 1/6*H21b(8,4,5,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-1} \\
& + 1/3*H21b(8,4,5,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 1/3*H21b(8,4,5,plext.plext)*F^{-} \\
& 3^*\sin^4*\cos*m83^{-1} - 1/3*H21b(8,4,5,plext.plext)*F^{-3}*\sin^5*\sqrt{3}*m83^{-} \\
& 1 + 1/4*H21b(8,4,5,1,plext.plext)*F^{-3}*\cos + 5/48*H21b(8,4,5,1,plext.plext)*F^{-} \\
& 3^*\sin*\sqrt{3} + 1/12*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin^2*\cos - 1/3*H21b(8,4,5,1,plext.plext)*F^{-} \\
& 3^*\sin^3*\sqrt{3} + 1/6*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin^4*\cos + \\
& 1/6*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin^5*\sqrt{3} - 3/8*H21b(8,6,7,plext.plext)*F^{-} \\
& 3^*\cos*m83^{-1} - 1/4*H21b(8,6,7,plext.plext)*F^{-3}*\sin*\sqrt{3}*m83^{-1} - \\
& 1/6*H21b(8,6,7,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-1} - 1/3*H21b(8,6,7,plext.plext)*F^{-} \\
& 3^*\sin^3*\sqrt{3}*m83^{-1} - 1/3*H21b(8,6,7,plext.plext)*F^{-3}*\sin^4*\cos*m83^{-} \\
& 1 + 1/3*H21b(8,6,7,plext.plext)*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} + 1/2*H21b(8,6,7,1,plext.plext)*F^{-} \\
& 3^*\cos - 11/48*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin*\sqrt{3} + 1/12*H21b(8,6,7,1,plext.plext)*F^{-} \\
& 3^*\sin^2*\cos + 1/3*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} + \\
& 1/6*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin^4*\cos - 1/6*H21b(8,6,7,1,plext.plext)*F^{-} \\
& 3^*\sin^5*\sqrt{3} - 4/27*HH1b(1,2,3,plext.plext)*F^{-3}*\sin*\sqrt{3}*m83^{-1} - \\
& 28/27*HH1b(1,2,3,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-1} + 1/9*HH1b(1,2,3,1,plext.plext)*F^{-} \\
& 3^*\sin*\sqrt{3} + 2/3*HH1b(1,2,3,1,plext.plext)*F^{-3}*\sin^2*\cos + 22/27*HH1b(1,2,8,plext.plext)*F^{-} \\
& 3^*\sin*\sqrt{3}*m83^{-1} + 52/27*HH1b(1,2,8,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-} \\
& 1 - 5/9*HH1b(1,2,8,1,plext.plext)*F^{-3}*\sin*\sqrt{3} - 10/9*HH1b(1,2,8,1,plext.plext)*F^{-} \\
& 3^*\sin^2*\cos + 1/3*HH1b(1,5,6,plext.plext)*F^{-3}*\cos*m83^{-1} + HH1b(1,5,6,plext.plext)*F^{-} \\
& 3^*\sin*\sqrt{3}*m83^{-1} + 8/9*HH1b(1,5,6,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-} \\
& 1 + 1/6*HH1b(1,5,6,1,plext.plext)*F^{-3}*\cos + 1/18*HH1b(1,5,6,1,plext.plext)*F^{-} \\
& 3^*\sin*\sqrt{3} - 4/9*HH1b(1,5,6,1,plext.plext)*F^{-3}*\sin^2*\cos - 4/27*HH1b(2,1,3,plext.plext)*F^{-} \\
& 3^*\sin*\sqrt{3}*m83^{-1} - 28/27*HH1b(2,1,3,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-} \\
& 1 + 1/9*HH1b(2,1,3,1,plext.plext)*F^{-3}*\sin*\sqrt{3} + 2/3*HH1b(2,1,3,1,plext.plext)*F^{-} \\
& 3^*\sin^2*\cos + 22/27*HH1b(2,1,8,plext.plext)*F^{-3}*\sin*\sqrt{3}*m83^{-1} + \\
& 52/27*HH1b(2,1,8,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-1} - 5/9*HH1b(2,1,8,1,plext.plext)*F^{-} \\
& 3^*\sin*\sqrt{3} - 10/9*HH1b(2,1,8,1,plext.plext)*F^{-3}*\sin^2*\cos + 1/3*HH1b(2,4,7,plext.plext)*F^{-} \\
& 3^*\cos*m83^{-1} + HH1b(2,4,7,plext.plext)*F^{-3}*\sin*\sqrt{3}*m83^{-1} +
\end{aligned}$$

$$\begin{aligned}
& 8/9*HH1b(2,4,7,plext.plext)*F^{-3*\sin^2*\cos*m83^{-1}} + 1/6*HH1b(2,4,7,1,plext.plext)*F^{-3*\cos} + 1/18*HH1b(2,4,7,1,plext.plext)*F^{-3*\sin*\sqrt{3}} - 4/9*HH1b(2,4,7,1,plext.plext)*F^{-3*\sin^2*\cos} + 1/9*HH1b(3,4,5,plext.plext)*F^{-3*\cos*m83^{-1}} + 8/27*HH1b(3,4,5,plext.plext)*F^{-3*\sin*\sqrt{3}*m83^{-1}} + 46/27*HH1b(3,4,5,plext.plext)*F^{-3*\sin^2*\cos*m83^{-1}} - 1 - 2/27*HH1b(3,4,5,plext.plext)*F^{-3*\sin^3*\sqrt{3}*m83^{-1}} - 8/9*HH1b(3,4,5,plext.plext)*F^{-3*\sin^4*\cos*m83^{-1}} - 8/27*HH1b(3,4,5,plext.plext)*F^{-3*\sin^5*\sqrt{3}*m83^{-1}} + 5/36*HH1b(3,4,5,1,plext.plext)*F^{-3*\cos} - 5/108*HH1b(3,4,5,1,plext.plext)*F^{-3*\sin*\sqrt{3}} - HH1b(3,4,5,1,plext.plext)*F^{-3*\sin^2*\cos} - 5/27*HH1b(3,4,5,1,plext.plext)*F^{-3*\sin^3*\sqrt{3}} + 4/9*HH1b(3,4,5,1,plext.plext)*F^{-3*\sin^4*\cos} + 4/27*HH1b(3,4,5,1,plext.plext)*F^{-3*\sin^5*\sqrt{3}} - 1/9*HH1b(3,6,7,plext.plext)*F^{-3*\cos*m83^{-1}} - 1/9*HH1b(3,6,7,plext.plext)*F^{-3*\sin*\sqrt{3}*m83^{-1}} + 46/27*HH1b(3,6,7,plext.plext)*F^{-3*\sin^2*\cos*m83^{-1}} + 2/27*HH1b(3,6,7,plext.plext)*F^{-3*\sin^3*\sqrt{3}*m83^{-1}} - 8/9*HH1b(3,6,7,plext.plext)*F^{-3*\sin^4*\cos*m83^{-1}} + 8/27*HH1b(3,6,7,plext.plext)*F^{-3*\sin^5*\sqrt{3}*m83^{-1}} + 7/36*HH1b(3,6,7,1,plext.plext)*F^{-3*\cos} - 13/108*HH1b(3,6,7,1,plext.plext)*F^{-3*\sin*\sqrt{3}} - HH1b(3,6,7,1,plext.plext)*F^{-3*\sin^2*\cos} + 5/27*HH1b(3,6,7,1,plext.plext)*F^{-3*\sin^3*\sqrt{3}} + 4/9*HH1b(3,6,7,1,plext.plext)*F^{-3*\sin^4*\cos} - 4/27*HH1b(3,6,7,1,plext.plext)*F^{-3*\sin^5*\sqrt{3}} + 2/3*HH1b(4,2,7,plext.plext)*F^{-3*\cos*m83^{-1}} + 2/9*HH1b(4,2,7,plext.plext)*F^{-3*\sin*\sqrt{3}*m83^{-1}} - 1/3*HH1b(4,2,7,1,plext.plext)*F^{-3*\cos} + 5/9*HH1b(4,5,8,plext.plext)*F^{-3*\cos*m83^{-1}} - 10/27*HH1b(4,5,8,plext.plext)*F^{-3*\sin*\sqrt{3}*m83^{-1}} + 34/27*HH1b(4,5,8,plext.plext)*F^{-3*\sin^2*\cos*m83^{-1}} + 10/27*HH1b(4,5,8,plext.plext)*F^{-3*\sin^3*\sqrt{3}*m83^{-1}} - 8/9*HH1b(4,5,8,plext.plext)*F^{-3*\sin^4*\cos*m83^{-1}} - 8/27*HH1b(4,5,8,plext.plext)*F^{-3*\sin^5*\sqrt{3}*m83^{-1}} + 29/36*HH1b(4,5,8,1,plext.plext)*F^{-3*\cos} + 7/108*HH1b(4,5,8,1,plext.plext)*F^{-3*\sin*\sqrt{3}} - 7/9*HH1b(4,5,8,1,plext.plext)*F^{-3*\sin^2*\cos} - 11/27*HH1b(4,5,8,1,plext.plext)*F^{-3*\sin^3*\sqrt{3}} + 4/9*HH1b(4,5,8,1,plext.plext)*F^{-3*\sin^4*\cos} + 4/27*HH1b(4,5,8,1,plext.plext)*F^{-3*\sin^5*\sqrt{3}} + 2/3*HH1b(5,1,6,plext.plext)*F^{-3*\cos*m83^{-1}} + 2/9*HH1b(5,1,6,plext.plext)*F^{-3*\sin*\sqrt{3}*m83^{-1}} - 1/3*HH1b(5,1,6,1,plext.plext)*F^{-3*\cos} + 5/9*HH1b(5,4,8,plext.plext)*F^{-3*\cos*m83^{-1}} - 10/27*HH1b(5,4,8,plext.plext)*F^{-3*\sin*\sqrt{3}*m83^{-1}} + 34/27*HH1b(5,4,8,plext.plext)*F^{-3*\sin^2*\cos*m83^{-1}} + 10/27*HH1b(5,4,8,plext.plext)*F^{-3*\sin^3*\sqrt{3}*m83^{-1}} - 8/9*HH1b(5,4,8,plext.plext)*F^{-3*\sin^4*\cos*m83^{-1}} - 8/27*HH1b(5,4,8,plext.plext)*F^{-3*\sin^5*\sqrt{3}*m83^{-1}} + 29/36*HH1b(5,4,8,1,plext.plext)*F^{-3*\cos} + 7/108*HH1b(5,4,8,1,plext.plext)*F^{-3*\sin*\sqrt{3}} - 7/9*HH1b(5,4,8,1,plext.plext)*F^{-3*\sin^2*\cos} - 11/27*HH1b(5,4,8,1,plext.plext)*F^{-3*\sin^3*\sqrt{3}} + 4/9*HH1b(5,4,8,1,plext.plext)*F^{-3*\sin^4*\cos} + 4/27*HH1b(5,4,8,1,plext.plext)*F^{-3*\sin^5*\sqrt{3}} - 5/9*HH1b(6,7,8,plext.plext)*F^{-3*\cos*m83^{-1}} - 1/9*HH1b(6,7,8,plext.plext)*F^{-3*\sin*\sqrt{3}*m83^{-1}} + 34/27*HH1b(6,7,8,plext.plext)*F^{-3*\sin^2*\cos*m83^{-1}} - 10/27*HH1b(6,7,8,plext.plext)*F^{-3*\sin^3*\sqrt{3}*m83^{-1}} - 8/9*HH1b(6,7,8,plext.plext)*F^{-3*\sin^4*\cos*m83^{-1}} + 8/27*HH1b(6,7,8,plext.plext)*F^{-3*\sin^5*\sqrt{3}*m83^{-1}} + 31/36*HH1b(6,7,8,1,plext.plext)*F^{-3*\cos} - 49/108*HH1b(6,7,8,1,plext.plext)*F^{-3*\sin*\sqrt{3}} - 7/9*HH1b(6,7,8,1,plext.plext)*F^{-3*\sin^2*\cos} + 11/27*HH1b(6,7,8,1,plext.plext)*F^{-3*\sin^3*\sqrt{3}} + 4/9*HH1b(6,7,8,1,plext.plext)*F^{-3*\sin^4*\cos} - 4/27*HH1b(6,7,8,1,plext.plext)*F^{-3*\sin^5*\sqrt{3}} - 5/9*HH1b(7,6,8,plext.plext)*F^{-3*\cos*m83^{-1}} - 1/9*HH1b(7,6,8,plext.plext)*F^{-3*\sin*\sqrt{3}*m83^{-1}} + 34/27*HH1b(7,6,8,plext.plext)*F^{-3*\sin^2*\cos*m83^{-1}} - 10/27*HH1b(7,6,8,plext.plext)*F^{-3*\sin^3*\sqrt{3}*m83^{-1}} - 8/9*HH1b(7,6,8,plext.plext)*F^{-3*\sin^4*\cos*m83^{-1}} - 8/27*HH1b(7,6,8,plext.plext)*F^{-3*\sin^5*\sqrt{3}*m83^{-1}}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^3*\sqrt{3}*m83^{-1} - 8/9*HH1b(7,6,8,1,plext.p1ext)*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& + 8/27*HH1b(7,6,8,1,plext.p1ext)*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 31/36*HH1b(7,6,8,1,plext.p1ext)*F^{-3}*\cos x \\
& - 49/108*HH1b(7,6,8,1,plext.p1ext)*F^{-3}*\sin x*\sqrt{3} - 7/9*HH1b(7,6,8,1,plext.p1ext)*F^{-3}*\sin x^2*\cos x \\
& + 11/27*HH1b(7,6,8,1,plext.p1ext)*F^{-3}*\sin x^3*\sqrt{3} + 4/9*HH1b(7,6,8,1,plext.p1ext)*F^{-3}*\sin x^4*\cos x \\
& - 4/27*HH1b(7,6,8,1,plext.p1ext)*F^{-3}*\sin x^5*\sqrt{3}) \\
& + \text{mud}*\text{mpp2}*\text{mkp2} * (+ 4139/4976640*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 2351/7464960*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*m83^{-1} \\
& - 11/27*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} - 2/27*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} - 5/27*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} \\
& + 31/162*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} + 5/54*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} + 13/432*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} \\
& - 4480/27*F^{-3}*\sin x*\sqrt{3}*L5r*L8r*m83^{-1} - 4480/9*F^{-3}*\sin x*\sqrt{3}*L5r*L7r*m83^{-1} + 128/9*F^{-3}*\sin x*\sqrt{3}*L4r*L8r*m83^{-1} \\
& + 128/3*F^{-3}*\sin x*\sqrt{3}*L4r*L7r*m83^{-1} + 128/9*F^{-3}*\sin x*\sqrt{3}*CC33*m83^{-1} + 64/9*F^{-3}*\sin x*\sqrt{3}*CC32*m83^{-1} \\
& + 64/9*F^{-3}*\sin x*\sqrt{3}*CC31*m83^{-1} + 64/9*F^{-3}*\sin x*\sqrt{3}*CC20*m83^{-1} + 32/3*F^{-3}*\sin x*\sqrt{3}*CC19*m83^{-1} \\
& - 416/9*F^{-3}*\sin x*\sqrt{3}*CC18*m83^{-1} - 416/27*F^{-3}*\sin x*\sqrt{3}*CC17*m83^{-1} - 416/27*F^{-3}*\sin x*\sqrt{3}*CC14*m83^{-1} \\
& - 1253/20736*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 293/31104*F^{-3}*\sin x^2*\cos x*\pi^{-2}*m83^{-1} - 80/9*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1} \\
& - 32/9*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1} - 80/9*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1} + 104/27*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1} \\
& + 40/9*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1} + 1/9*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r*m83^{-1} + 2048/9*F^{-3}*\sin x^2*\cos x*L5r*L8r*m83^{-1} \\
& + 2048/3*F^{-3}*\sin x^2*\cos x*L4r*L8r*m83^{-1} + 2048*F^{-3}*\sin x^2*\cos x*L4r*L7r*m83^{-1} + 2048/3*F^{-3}*\sin x^2*\cos x*CC33*m83^{-1} \\
& + 1024/3*F^{-3}*\sin x^2*\cos x*CC32*m83^{-1} + 1024/3*F^{-3}*\sin x^2*\cos x*CC31*m83^{-1} + 1024/3*F^{-3}*\sin x^2*\cos x*CC20*m83^{-1} \\
& + 512*F^{-3}*\sin x^2*\cos x*CC19*m83^{-1} - 512/3*F^{-3}*\sin x^2*\cos x*CC18*m83^{-1} - 512/9*F^{-3}*\sin x^2*\cos x*CC17*m83^{-1} \\
& - 512/9*F^{-3}*\sin x^2*\cos x*CC14*m83^{-1} - 125/31104*C*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 8/27*C*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} \\
& + 20/9*C*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} + 4/9*C*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} - 64/9*C*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1} \\
& - 64/3*C*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1} + 23/17280*C^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 11/5760*C*\ln(1)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} \\
& - 263/103680*C*\ln(3)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 11/720*C*\ln(3)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 1/3456*C*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} \\
& + 1/144*C*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 1/432*C*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/480*C*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} \\
& + 1/144*C*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 1/432*C*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 269/103680*C*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} \\
& - 13/2160*C*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 1/20736*\ln(1)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 2/27*\ln(1)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} \\
& - 2/3*\ln(1)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} + 4/9*\ln(1)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} + 2/27*\ln(1)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} \\
& - 1/6*\ln(1)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} - 17/5184*\ln(1)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 128/27*\ln(1)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^{\sin x^2 \cos x \pi^{-2} L_8 r^m m_8^3^{-1}} + 128/9 \ln(1) F^{-3 \sin x^2 \cos x \pi^{-2} L_7 r^m m_8^3^{-1} + 1/324 \ln(1) F^{-3 \sin x^4 \cos x \pi^{-4} m_8^3^{-1} - 160/27 \ln(1) F^{-3 \sin x^4 \cos x \pi^{-2} L_8 r^m m_8^3^{-1} - 160/9 \ln(1) F^{-3 \sin x^4 \cos x \pi^{-2} L_7 r^m m_8^3^{-1} + 251/207360 \ln(1) \ln(3) F^{-3 \sin x \sqrt{3} \pi^{-4} m_8^3^{-1} - 169/51840 \ln(1) \ln(3) F^{-3 \sin x^2 \cos x \pi^{-4} m_8^3^{-1} + 7/1296 \ln(1) \ln(3) F^{-3 \sin x^4 \cos x \pi^{-4} m_8^3^{-1} + 1/216 \ln(1) \ln(3) F^{-3 \sin x^6 \cos x \pi^{-4} m_8^3^{-1} + 1/27648 \ln(1) \ln(4) F^{-3 \cos x \pi^{-4} m_8^3^{-1} + 35/82944 \ln(1) \ln(4) F^{-3 \sin x \sqrt{3} \pi^{-4} m_8^3^{-1} - 7/3456 \ln(1) \ln(4) F^{-3 \sin x^2 \cos x \pi^{-4} m_8^3^{-1} - 49/10368 \ln(1) \ln(4) F^{-3 \sin x^3 \sqrt{3} \pi^{-4} m_8^3^{-1} + 5/864 \ln(1) \ln(4) F^{-3 \sin x^4 \cos x \pi^{-4} m_8^3^{-1} + 5/864 \ln(1) \ln(4) F^{-3 \sin x^5 \sqrt{3} \pi^{-4} m_8^3^{-1} - 1/27648 \ln(1) \ln(6) F^{-3 \cos x \pi^{-4} m_8^3^{-1} + 47/414720 \ln(1) \ln(6) F^{-3 \sin x \sqrt{3} \pi^{-4} m_8^3^{-1} - 7/3456 \ln(1) \ln(6) F^{-3 \sin x^2 \cos x \pi^{-4} m_8^3^{-1} + 49/10368 \ln(1) \ln(6) F^{-3 \sin x^3 \sqrt{3} \pi^{-4} m_8^3^{-1} + 5/864 \ln(1) \ln(6) F^{-3 \sin x^4 \cos x \pi^{-4} m_8^3^{-1} - 5/864 \ln(1) \ln(6) F^{-3 \sin x^5 \sqrt{3} \pi^{-4} m_8^3^{-1} - 91/207360 \ln(1) \ln(8) F^{-3 \sin x \sqrt{3} \pi^{-4} m_8^3^{-1} + 29/51840 \ln(1) \ln(8) F^{-3 \sin x^2 \cos x \pi^{-4} m_8^3^{-1} + 1/432 \ln(1) \ln(8) F^{-3 \sin x^4 \cos x \pi^{-4} m_8^3^{-1} - 1/216 \ln(1) \ln(8) F^{-3 \sin x^6 \cos x \pi^{-4} m_8^3^{-1} - 1/3456 \ln(3) F^{-3 \sin x \sqrt{3} \pi^{-4} m_8^3^{-1} + 106/81 \ln(3) F^{-3 \sin x \sqrt{3} \pi^{-2} L_8 r^m m_8^3^{-1} + 68/27 \ln(3) F^{-3 \sin x \sqrt{3} \pi^{-2} L_7 r^m m_8^3^{-1} + 2/27 \ln(3) F^{-3 \sin x \sqrt{3} \pi^{-2} L_6 r^m m_8^3^{-1} - 1/18 \ln(3) F^{-3 \sin x \sqrt{3} \pi^{-2} L_5 r^m m_8^3^{-1} - 1/36 \ln(3) F^{-3 \sin x \sqrt{3} \pi^{-2} L_4 r^m m_8^3^{-1} - 1/648 \ln(3) F^{-3 \sin x^2 \cos x \pi^{-4} m_8^3^{-1} - 320/27 \ln(3) F^{-3 \sin x^2 \cos x \pi^{-2} L_8 r^m m_8^3^{-1} - 64/3 \ln(3) F^{-3 \sin x^2 \cos x \pi^{-2} L_7 r^m m_8^3^{-1} - 32/9 \ln(3) F^{-3 \sin x^2 \cos x \pi^{-2} L_6 r^m m_8^3^{-1} + 32/27 \ln(3) F^{-3 \sin x^2 \cos x \pi^{-2} L_5 r^m m_8^3^{-1} + 4/3 \ln(3) F^{-3 \sin x^2 \cos x \pi^{-2} L_4 r^m m_8^3^{-1} - 512/27 \ln(3) F^{-3 \sin x^4 \cos x \pi^{-2} L_8 r^m m_8^3^{-1} - 512/9 \ln(3) F^{-3 \sin x^4 \cos x \pi^{-2} L_7 r^m m_8^3^{-1} + 512/27 \ln(3) F^{-3 \sin x^6 \cos x \pi^{-2} L_7 r^m m_8^3^{-1} - 119/248832 \ln(3)^2 F^{-3 \sin x \sqrt{3} \pi^{-4} m_8^3^{-1} + 35/6912 \ln(3)^2 F^{-3 \sin x^2 \cos x \pi^{-4} m_8^3^{-1} + 1/144 \ln(3)^2 F^{-3 \sin x^4 \cos x \pi^{-4} m_8^3^{-1} + 7/1296 \ln(3)^2 F^{-3 \sin x^6 \cos x \pi^{-4} m_8^3^{-1} - 1/81 \ln(3)^2 F^{-3 \sin x^8 \cos x \pi^{-4} m_8^3^{-1} + 221/207360 \ln(3) \ln(4) F^{-3 \cos x \pi^{-4} m_8^3^{-1} - 379/165888 \ln(3) \ln(4) F^{-3 \sin x \sqrt{3} \pi^{-4} m_8^3^{-1} - 293/103680 \ln(3) \ln(4) F^{-3 \sin x^2 \cos x \pi^{-4} m_8^3^{-1} + 1/2304 \ln(3) \ln(4) F^{-3 \sin x^3 \sqrt{3} \pi^{-4} m_8^3^{-1} + 41/2592 \ln(3) \ln(4) F^{-3 \sin x^4 \cos x \pi^{-4} m_8^3^{-1} + 1/108 \ln(3) \ln(4) F^{-3 \sin x^5 \sqrt{3} \pi^{-4} m_8^3^{-1} - 1/48 \ln(3) \ln(4) F^{-3 \sin x^6 \cos x \pi^{-4} m_8^3^{-1} - 11/1296 \ln(3) \ln(4) F^{-3 \sin x^7 \sqrt{3} \pi^{-4} m_8^3^{-1} - 221/207360 \ln(3) \ln(6) F^{-3 \cos x \pi^{-4} m_8^3^{-1} + 293/165888 \ln(3) \ln(6) F^{-3 \sin x \sqrt{3} \pi^{-4} m_8^3^{-1} - 293/103680 \ln(3) \ln(6) F^{-3 \sin x^2 \cos x \pi^{-4} m_8^3^{-1} - 1/2304 \ln(3) \ln(6) F^{-3 \sin x^3 \sqrt{3} \pi^{-4} m_8^3^{-1} + 41/2592 \ln(3) \ln(6) F^{-3 \sin x^4 \cos x \pi^{-4} m_8^3^{-1} - 1/108 \ln(3) \ln(6) F^{-3 \sin x^5 \sqrt{3} \pi^{-4} m_8^3^{-1} - 1/48 \ln(3) \ln(6) F^{-3 \sin x^6 \cos x \pi^{-4} m_8^3^{-1} + 11/1296 \ln(3) \ln(6) F^{-3 \sin x^7 \sqrt{3} \pi^{-4} m_8^3^{-1} - 1/124416 \ln(3) \ln(8) F^{-3 \sin x \sqrt{3} \pi^{-4} m_8^3^{-1} + 7/10368 \ln(3) \ln(8) F^{-3 \sin x^2 \cos x \pi^{-4} m_8^3^{-1} + 7/648 \ln(3) \ln(8) F^{-3 \sin x^4 \cos x \pi^{-4} m_8^3^{-1} - 23/648 \ln(3) \ln(8) F^{-3 \sin x^6 \cos x \pi^{-4} m_8^3^{-1} + 2/81 \ln(3) \ln(8) F^{-3 \sin x^8 \cos x \pi^{-4} m_8^3^{-1} + 31/55296 \ln(4) F^{-3 \cos x \pi^{-4} m_8^3^{-1}
\end{aligned}$$

$$\begin{aligned}
& + 40/9*\ln(4)*F^{-3*\cos x*\pi^{-2}*L8r*m83^{-1}} + 25/3*\ln(4)*F^{-3*\cos x*\pi^{-2}*L7r*m83^{-1}} + \ln(4)*F^{-3*\cos x*\pi^{-2}*L6r*m83^{-1}} - 61/72*\ln(4)*F^{-3*\cos x*\pi^{-2}*L5r*m83^{-1}} - 3/8*\ln(4)*F^{-3*\cos x*\pi^{-2}*L4r*m83^{-1}} - 1/16*\ln(4)*F^{-3*\cos x*\pi^{-2}*L3r*m83^{-1}} - 215/165888*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} - 439/54*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-1}} - 33/2*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1}} - 11/9*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-1}} + 281/216*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1}} + 11/24*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-1}} + 11/144*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L3r*m83^{-1}} + 1/1296*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} - 472/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1}} - 280/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1}} - 16/3*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1}} + 26/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1}} + 2*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1}} + 1/3*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L3r*m83^{-1}} + 7/1728*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} - 16/27*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-1}} - 80/9*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-1}} + 16/9*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-1}} - 26/27*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-1}} - 2/3*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-1}} - 1/9*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L3r*m83^{-1}} - 1/648*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} + 80/27*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1}} + 80/9*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1}} - 1/216*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1}} + 80/9*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-1}} + 80/3*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-1}} - 7/55296*\ln(4)^2*F^{-3*\cos x*\pi^{-4}*m83^{-1}} + 65/165888*\ln(4)^2*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} - 5/3456*\ln(4)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + 101/10368*\ln(4)^2*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} + 1/2304*\ln(4)*\ln(6)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} - 85/82944*\ln(4)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} + 1/288*\ln(4)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} - 5/432*\ln(4)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} + 169/207360*\ln(4)*\ln(8)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} - 83/55296*\ln(4)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} - 887/103680*\ln(4)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + 89/6912*\ln(4)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} - 17/864*\ln(4)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} - 1/48*\ln(4)*\ln(8)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1}} + 1/48*\ln(4)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-1}} + 11/1296*\ln(4)*\ln(8)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1}} - 31/55296*\ln(6)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} - 40/9*\ln(6)*F^{-3*\cos x*\pi^{-2}*L8r*m83^{-1}} - 25/3*\ln(6)*F^{-3*\cos x*\pi^{-2}*L7r*m83^{-1}} - \ln(6)*F^{-3*\cos x*\pi^{-2}*L6r*m83^{-1}} + 61/72*\ln(6)*F^{-3*\cos x*\pi^{-2}*L5r*m83^{-1}} + 3/8*\ln(6)*F^{-3*\cos x*\pi^{-2}*L4r*m83^{-1}} + 1/16*\ln(6)*F^{-3*\cos x*\pi^{-2}*L3r*m83^{-1}} + 433/165888*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} + 457/54*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-1}} + 39/2*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1}} + 5/9*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-1}} - 175/216*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1}} - 5/24*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-1}} + 5/48*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L3r*m83^{-1}} - 1 + 1/1296*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} - 472/27*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1}} - 280/9*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1}} - 16/3*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1}} + 26/9*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1}} + 2*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1}} + 1/3*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L3r*m83^{-1}} - 7/1728*\ln(6)*F^{-
\end{aligned}$$

$$\begin{aligned}
& 3^{\sin x^3 \sqrt{3} \pi^4 m 83^{-1}} + 16/27 \ln(6) F^{-3 \sin x^3 \sqrt{3} \pi^2 L 8 r m 83^{-1}} \\
& - 1 + 80/9 \ln(6) F^{-3 \sin x^3 \sqrt{3} \pi^2 L 7 r m 83^{-1}} - 16/9 \ln(6) F^{-3 \sin x^3 \sqrt{3} \pi^2 L 6 r m 83^{-1}} \\
& + 26/27 \ln(6) F^{-3 \sin x^3 \sqrt{3} \pi^2 L 5 r m 83^{-1}} + 2/3 \ln(6) F^{-3 \sin x^3 \sqrt{3} \pi^2 L 4 r m 83^{-1}} + 1/9 \ln(6) F^{-3 \sin x^3 \sqrt{3} \pi^2 L 3 r m 83^{-1}} \\
& - 1/648 \ln(6) F^{-3 \sin x^4 \cos x \pi^4 m 83^{-1}} + 80/27 \ln(6) F^{-3 \sin x^4 \cos x \pi^2 L 8 r m 83^{-1}} + 80/9 \ln(6) F^{-3 \sin x^4 \cos x \pi^2 L 7 r m 83^{-1}} \\
& + 1/216 \ln(6) F^{-3 \sin x^5 \sqrt{3} \pi^4 m 83^{-1}} - 80/9 \ln(6) F^{-3 \sin x^5 \sqrt{3} \pi^2 L 8 r m 83^{-1}} - 80/3 \ln(6) F^{-3 \sin x^5 \sqrt{3} \pi^2 L 7 r m 83^{-1}} \\
& - 17/55296 \ln(6)^2 F^{-3 \cos x \pi^4 m 83^{-1}} - 497/276480 \ln(6)^2 F^{-3 \sin x \sqrt{3} \pi^4 m 83^{-1}} - 5/3456 \ln(6)^2 F^{-3 \sin x^2 \cos x \pi^4 m 83^{-1}} \\
& - 101/10368 \ln(6)^2 F^{-3 \sin x^3 \sqrt{3} \pi^4 m 83^{-1}} - 4^4 m 83^{-1} + 5/432 \ln(6)^2 F^{-3 \sin x^5 \sqrt{3} \pi^4 m 83^{-1}} - 169/207360 \ln(6) \ln(8) F^{-3 \cos x \pi^4 m 83^{-1}} \\
& - 509/829440 \ln(6) \ln(8) F^{-3 \sin x \sqrt{3} \pi^4 m 83^{-1}} - 887/103680 \ln(6) \ln(8) F^{-3 \sin x^2 \cos x \pi^4 m 83^{-1}} - 89/6912 \ln(6) \ln(8) F^{-3 \sin x^3 \sqrt{3} \pi^4 m 83^{-1}} \\
& - 17/864 \ln(6) \ln(8) F^{-3 \sin x^4 \cos x \pi^4 m 83^{-1}} + 1/48 \ln(6) \ln(8) F^{-3 \sin x^5 \sqrt{3} \pi^4 m 83^{-1}} + 1/48 \ln(6) \ln(8) F^{-3 \sin x^6 \cos x \pi^4 m 83^{-1}} \\
& - 11/1296 \ln(6) \ln(8) F^{-3 \sin x^7 \sqrt{3} \pi^4 m 83^{-1}} - 25/62208 \ln(8) F^{-3 \sin x \sqrt{3} \pi^4 m 83^{-1}} - 16/9 \ln(8) F^{-3 \sin x \sqrt{3} \pi^2 L 8 r m 83^{-1}} \\
& - 10/3 \ln(8) F^{-3 \sin x \sqrt{3} \pi^2 L 7 r m 83^{-1}} - 2/9 \ln(8) F^{-3 \sin x \sqrt{3} \pi^2 L 6 r m 83^{-1}} + 41/81 \ln(8) F^{-3 \sin x \sqrt{3} \pi^2 L 5 r m 83^{-1}} \\
& + 1/12 \ln(8) F^{-3 \sin x \sqrt{3} \pi^2 L 4 r m 83^{-1}} - 5/1296 \ln(8) F^{-3 \sin x^2 \cos x \pi^4 m 83^{-1}} - 32/3 \ln(8) F^{-3 \sin x^2 \cos x \pi^2 L 8 r m 83^{-1}} \\
& - 160/9 \ln(8) F^{-3 \sin x^2 \cos x \pi^2 L 7 r m 83^{-1}} - 32/9 \ln(8) F^{-3 \sin x^2 \cos x \pi^2 L 6 r m 83^{-1}} + 8/3 \ln(8) F^{-3 \sin x^2 \cos x \pi^2 L 5 r m 83^{-1}} \\
& + 4/3 \ln(8) F^{-3 \sin x^2 \cos x \pi^2 L 4 r m 83^{-1}} + 512/27 \ln(8) F^{-3 \sin x^4 \cos x \pi^2 L 8 r m 83^{-1}} + 512/9 \ln(8) F^{-3 \sin x^4 \cos x \pi^2 L 7 r m 83^{-1}} \\
& - 512/27 \ln(8) F^{-3 \sin x^6 \cos x \pi^2 L 8 r m 83^{-1}} - 512/9 \ln(8) F^{-3 \sin x^6 \cos x \pi^2 L 8 r m 83^{-1}} + 173/248832 \ln(8)^2 F^{-3 \sin x \sqrt{3} \pi^4 m 83^{-1}} \\
& - 89/20736 \ln(8)^2 F^{-3 \sin x^2 \cos x \pi^4 m 83^{-1}} - 23/1296 \ln(8)^2 F^{-3 \sin x^4 \cos x \pi^4 m 83^{-1}} + 13/432 \ln(8)^2 F^{-3 \sin x^6 \cos x \pi^4 m 83^{-1}} \\
& - 1/81 \ln(8)^2 F^{-3 \sin x^8 \cos x \pi^4 m 83^{-1}} + 79/276480 / (\text{mass}(3)) \ln(3)^2 F^{-3 \sin x \sqrt{3} \pi^4 m 83^{-1}} - 1/540 / (\text{mass}(3)) \ln(3)^2 F^{-3 \sin x^2 \cos x \pi^4 m 83^{-1}} \\
& + 23/122880 / (\text{mass}(4)) \ln(4)^2 F^{-3 \cos x \pi^4 m 83^{-1}} - 19/73728 / (\text{mass}(4)) \ln(4)^2 F^{-3 \sin x \sqrt{3} \pi^4 m 83^{-1}} - 7/7680 / (\text{mass}(4)) \ln(4)^2 F^{-3 \sin x^2 \cos x \pi^4 m 83^{-1}} \\
& + 7/23040 / (\text{mass}(4)) \ln(4)^2 F^{-3 \sin x^3 \sqrt{3} \pi^4 m 83^{-1}} + 149/368640 / (\text{mass}(5)) \ln(4)^2 F^{-3 \cos x \pi^4 m 83^{-1}} - 137/221184 / (\text{mass}(5)) \ln(4)^2 F^{-3 \sin x \sqrt{3} \pi^4 m 83^{-1}} \\
& - 41/23040 / (\text{mass}(5)) \ln(4)^2 F^{-3 \sin x^2 \cos x \pi^4 m 83^{-1}} + 41/69120 / (\text{mass}(5)) \ln(4)^2 F^{-3 \sin x^3 \sqrt{3} \pi^4 m 83^{-1}} - 133/122880 / (\text{mass}(6)) \ln(6)^2 F^{-3 \cos x \pi^4 m 83^{-1}} \\
& + 47/122880 / (\text{mass}(6)) \ln(6)^2 F^{-3 \sin x \sqrt{3} \pi^4 m 83^{-1}} - 7/7680 / (\text{mass}(6)) \ln(6)^2 F^{-3 \sin x^2 \cos x \pi^4 m 83^{-1}} - 7/23040 / (\text{mass}(6)) \ln(6)^2 F^{-3 \sin x^3 \sqrt{3} \pi^4 m 83^{-1}} \\
& - 359/368640 / (\text{mass}(7)) \ln(6)^2 F^{-3 \cos x \pi^4 m 83^{-1}} + 221/368640 / (\text{mass}(7)) \ln(6)^2 F^{-3 \sin x \sqrt{3} \pi^4 m 83^{-1}} - 41/23040 / (\text{mass}(7)) \ln(6)^2 F^{-3 \sin x^2 \cos x \pi^4 m 83^{-1}} \\
& - 41/69120 / (\text{mass}(7)) \ln(6)^2 F^{-3 \sin x^3 \sqrt{3} \pi^4 m 83^{-1}} + 1/512 / (\text{mass}(8)) \ln(8)^2 F^{-3 \cos x \pi^4 m 83^{-1}} - 391/829440 / (\text{mass}(8)) \ln(8)^2 F^{-3 \sin x \sqrt{3} \pi^4 m 83^{-1}} \\
& - 1/540 / (\text{mass}(8)) \ln(8)^2 F^{-3 \sin x^2 \cos x \pi^4 m 83^{-1}}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 1/81*\ln(3)^2*F^{-3}*\sin x^8*\cos x*\pi^{-4}*m83^{-2} \\
& - 41/20736*\ln(3)*\ln(4)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} + 481/62208*\ln(3)*\ln(4)*F^{-3} \\
& *3^*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 23/1296*\ln(3)*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& *4*m83^{-2} - 119/7776*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 25/1296*\ln(3)*\ln(4)*F^{-3} \\
& *3^*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 7/3888*\ln(3)*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} \\
& *4*m83^{-2} + 5/108*\ln(3)*\ln(4)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 1/108*\ln(3)*\ln(4)*F^{-3} \\
& *3^*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} + 41/20736*\ln(3)*\ln(6)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} \\
& - 59/6912*\ln(3)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 23/1296*\ln(3)*\ln(6)*F^{-3} \\
& *3^*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 119/7776*\ln(3)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& *4*m83^{-2} - 25/1296*\ln(3)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 7/3888*\ln(3)*\ln(6)*F^{-3} \\
& *3^*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/108*\ln(3)*\ln(6)*F^{-3}*\sin x^6*\cos x*\pi^{-4} \\
& *4*m83^{-2} - 1/108*\ln(3)*\ln(6)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/2592*\ln(3)*\ln(8)*F^{-3} \\
& *3^*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 65/3888*\ln(3)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& *4*m83^{-2} + 5/648*\ln(3)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 10/243*\ln(3)*\ln(8)*F^{-3} \\
& *3^*\sin x^6*\cos x*\pi^{-4}*m83^{-2} - 2/81*\ln(3)*\ln(8)*F^{-3}*\sin x^8*\cos x*\pi^{-4} \\
& *4*m83^{-2} + 76/27*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L8r*m83^{-2} + 68/9*\ln(4)*F^{-3} \\
& *3^*\cos x*\pi^{-2}*L7r*m83^{-2} + 1/3*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L6r*m83^{-2} + \\
& 1/27*\ln(4)*F^{-3}*\cos x*\pi^{-2}*L5r*m83^{-2} - 5/18*\ln(4)*F^{-3}*\cos x*\pi^{-2} \\
& *2*L4r*m83^{-2} - 1076/81*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 352/9*\ln(4)*F^{-3} \\
& *3^*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 25/27*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} \\
& + 5/27*\ln(4)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} + 13/18*\ln(4)*F^{-3} \\
& *3^*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} + 368/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2} \\
& *2*L7r*m83^{-2} - 16/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} + 8/27*\ln(4)*F^{-3} \\
& *3^*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} + 8/9*\ln(4)*F^{-3}*\sin x^2*\cos x*\pi^{-2} \\
& *L4r*m83^{-2} + 3280/81*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2} + 3232/27*\ln(4)*F^{-3} \\
& *3^*\sin x^3*\sqrt{3}*\pi^{-2} + 16/9*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2} *L6r*m83^{-2} - 8/27*\ln(4)*F^{-3} \\
& *3^*\sin x^3*\sqrt{3}*\pi^{-2} *L5r*m83^{-2} - 8/9*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2} \\
& *2*L4r*m83^{-2} - 512/9*\ln(4)*F^{-3}*\sin x^4*\cos x*\pi^{-2} *L8r*m83^{-2} - 512/3*\ln(4)*F^{-3} \\
& *3^*\sin x^4*\cos x*\pi^{-2} *L7r*m83^{-2} - 256/9*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2} \\
& *2*L8r*m83^{-2} - 256/3*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2} *L7r*m83^{-2} - 23/6912*\ln(4)^2*F^{-3} \\
& *3^*\cos x*\pi^{-4}*m83^{-2} + 587/41472*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& - 1/72*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 13/324*\ln(4)^2*F^{-3} \\
& *3^*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/36*\ln(4)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} \\
& + 1/36*\ln(4)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/576*\ln(4)*\ln(6)*F^{-3} \\
& *3^*\cos x*\pi^{-4}*m83^{-2} - 11/20736*\ln(4)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& - 13/216*\ln(4)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 1/18*\ln(4)*\ln(6)*F^{-3} \\
& *3^*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 19/10368*\ln(4)*\ln(8)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} \\
& + 155/15552*\ln(4)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/144*\ln(4)*\ln(8)*F^{-3} \\
& *3^*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 11/288*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& *4*m83^{-2} + 121/1296*\ln(4)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + \\
& 151/3888*\ln(4)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/108*\ln(4)*\ln(8)*F^{-3} \\
& *3^*\sin x^6*\cos x*\pi^{-4}*m83^{-2} - 1/108*\ln(4)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4} \\
& *4*m83^{-2} - 76/27*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L8r*m83^{-2} - 68/9*\ln(6)*F^{-3} \\
& *3^*\cos x*\pi^{-2}*L7r*m83^{-2} - 1/3*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L6r*m83^{-2} - \\
& 1/27*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L5r*m83^{-2} + 5/18*\ln(6)*F^{-3}*\cos x*\pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2^*L4r^*m83^{\wedge}-2 + 316/27*\ln(6)*F^{\wedge}-3*\sinx*\sqrt{3}*pi^{\wedge}-2*L8r^*m83^{\wedge}-2 + \\
& 872/27*\ln(6)*F^{\wedge}-3*\sinx*\sqrt{3}*pi^{\wedge}-2*L7r^*m83^{\wedge}-2 + 35/27*\ln(6)*F^{\wedge}-3*\sinx*\sqrt{3}*pi^{\wedge}- \\
& 2^*L6r^*m83^{\wedge}-2 + 1/27*\ln(6)*F^{\wedge}-3*\sinx*\sqrt{3}*pi^{\wedge}-2*L5r^*m83^{\wedge}-2 - 7/18*\ln(6)*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*pi^{\wedge}-2*L4r^*m83^{\wedge}-2 + 368/9*\ln(6)*F^{\wedge}-3*\sinx^2*\cosx*pi^{\wedge}- \\
& 2^*L8r^*m83^{\wedge}-2 + 1120/9*\ln(6)*F^{\wedge}-3*\sinx^2*\cosx*pi^{\wedge}-2*L7r^*m83^{\wedge}-2 - \\
& 16/9*\ln(6)*F^{\wedge}-3*\sinx^2*\cosx*pi^{\wedge}-2*L6r^*m83^{\wedge}-2 + 8/27*\ln(6)*F^{\wedge}-3*\sinx^2*\cosx*pi^{\wedge}- \\
& 2^*L5r^*m83^{\wedge}-2 + 8/9*\ln(6)*F^{\wedge}-3*\sinx^2*\cosx*pi^{\wedge}-2*L4r^*m83^{\wedge}-2 - 3280/81*\ln(6)*F^{\wedge}- \\
& 3*\sinx^3*\sqrt{3}*pi^{\wedge}-2*L8r^*m83^{\wedge}-2 - 3232/27*\ln(6)*F^{\wedge}-3*\sinx^3*\sqrt{3}*pi^{\wedge}- \\
& 2^*L7r^*m83^{\wedge}-2 - 16/9*\ln(6)*F^{\wedge}-3*\sinx^3*\sqrt{3}*pi^{\wedge}-2*L6r^*m83^{\wedge}-2 + 8/27*\ln(6)*F^{\wedge}- \\
& 3*\sinx^3*\sqrt{3}*pi^{\wedge}-2*L5r^*m83^{\wedge}-2 + 8/9*\ln(6)*F^{\wedge}-3*\sinx^3*\sqrt{3}*pi^{\wedge}- \\
& 2^*L4r^*m83^{\wedge}-2 - 512/9*\ln(6)*F^{\wedge}-3*\sinx^4*\cosx*pi^{\wedge}-2*L8r^*m83^{\wedge}-2 - 512/3*\ln(6)*F^{\wedge}- \\
& 3*\sinx^4*\cosx*pi^{\wedge}-2*L7r^*m83^{\wedge}-2 + 256/9*\ln(6)*F^{\wedge}-3*\sinx^5*\sqrt{3}*pi^{\wedge}- \\
& 2^*L8r^*m83^{\wedge}-2 + 256/3*\ln(6)*F^{\wedge}-3*\sinx^5*\sqrt{3}*pi^{\wedge}-2*L7r^*m83^{\wedge}-2 + \\
& 11/6912*\ln(6)^2*F^{\wedge}-3*\cosx*pi^{\wedge}-4*m83^{\wedge}-2 - 509/41472*\ln(6)^2*F^{\wedge}-3*\sinx*\sqrt{3}*pi^{\wedge}- \\
& 4*m83^{\wedge}-2 - 1/72*\ln(6)^2*F^{\wedge}-3*\sinx^2*\cosx*pi^{\wedge}-4*m83^{\wedge}-2 + 13/324*\ln(6)^2*F^{\wedge}- \\
& 3*\sinx^3*\sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-2 + 1/36*\ln(6)^2*F^{\wedge}-3*\sinx^4*\cosx*pi^{\wedge}-4*m83^{\wedge}-2 \\
& - 1/36*\ln(6)^2*F^{\wedge}-3*\sinx^5*\sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-2 + 19/10368*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\cosx*pi^{\wedge}-4*m83^{\wedge}-2 - 113/15552*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx*\sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-2 - \\
& 5/144*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^2*\cosx*pi^{\wedge}-4*m83^{\wedge}-2 + 11/288*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\sinx^3*\sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-2 + 121/1296*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^4*\cosx*pi^{\wedge}- \\
& 4*m83^{\wedge}-2 - 151/3888*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^5*\sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-2 - 5/108*\ln(6)*\ln(8)*F^{\wedge}- \\
& 3*\sinx^6*\cosx*pi^{\wedge}-4*m83^{\wedge}-2 + 1/108*\ln(6)*\ln(8)*F^{\wedge}-3*\sinx^7*\sqrt{3}*pi^{\wedge}- \\
& 4*m83^{\wedge}-2 - 116/81*\ln(8)*F^{\wedge}-3*\sinx*\sqrt{3}*pi^{\wedge}-2*L8r^*m83^{\wedge}-2 - 44/9*\ln(8)*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*pi^{\wedge}-2*L7r^*m83^{\wedge}-2 + 4/27*\ln(8)*F^{\wedge}-3*\sinx*\sqrt{3}*pi^{\wedge}-2*L6r^*m83^{\wedge}- \\
& 2 + 4/81*\ln(8)*F^{\wedge}-3*\sinx*\sqrt{3}*pi^{\wedge}-2*L5r^*m83^{\wedge}-2 + 4/27*\ln(8)*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*pi^{\wedge}-2*L4r^*m83^{\wedge}-2 + 848/27*\ln(8)*F^{\wedge}-3*\sinx^2*\cosx*pi^{\wedge}- \\
& 2*L8r^*m83^{\wedge}-2 + 832/9*\ln(8)*F^{\wedge}-3*\sinx^2*\cosx*pi^{\wedge}-2*L7r^*m83^{\wedge}-2 + \\
& 16/27*\ln(8)*F^{\wedge}-3*\sinx^2*\cosx*pi^{\wedge}-2*L6r^*m83^{\wedge}-2 + 8/81*\ln(8)*F^{\wedge}-3*\sinx^2*\cosx*pi^{\wedge}- \\
& 2*L5r^*m83^{\wedge}-2 + 8/9*\ln(8)*F^{\wedge}-3*\sinx^2*\cosx*pi^{\wedge}-2*L4r^*m83^{\wedge}-2 - 2528/27*\ln(8)*F^{\wedge}- \\
& 3*\sinx^4*\cosx*pi^{\wedge}-2*L8r^*m83^{\wedge}-2 - 7552/27*\ln(8)*F^{\wedge}-3*\sinx^4*\cosx*pi^{\wedge}- \\
& 2*L7r^*m83^{\wedge}-2 - 32/27*\ln(8)*F^{\wedge}-3*\sinx^4*\cosx*pi^{\wedge}-2*L6r^*m83^{\wedge}-2 + 16/81*\ln(8)*F^{\wedge}- \\
& 3*\sinx^4*\cosx*pi^{\wedge}-2*L5r^*m83^{\wedge}-2 + 16/27*\ln(8)*F^{\wedge}-3*\sinx^4*\cosx*pi^{\wedge}- \\
& 2*L4r^*m83^{\wedge}-2 + 1280/27*\ln(8)*F^{\wedge}-3*\sinx^6*\cosx*pi^{\wedge}-2*L8r^*m83^{\wedge}-2 + \\
& 1280/9*\ln(8)*F^{\wedge}-3*\sinx^6*\cosx*pi^{\wedge}-2*L7r^*m83^{\wedge}-2 + 11/15552*\ln(8)^2*F^{\wedge}- \\
& 3*\sinx*\sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-2 - 95/7776*\ln(8)^2*F^{\wedge}-3*\sinx^2*\cosx*pi^{\wedge}-4*m83^{\wedge}-2 \\
& + 223/3888*\ln(8)^2*F^{\wedge}-3*\sinx^4*\cosx*pi^{\wedge}-4*m83^{\wedge}-2 - 25/486*\ln(8)^2*F^{\wedge}- \\
& 3*\sinx^6*\cosx*pi^{\wedge}-4*m83^{\wedge}-2 + 1/81*\ln(8)^2*F^{\wedge}-3*\sinx^8*\cosx*pi^{\wedge}-4*m83^{\wedge}-2 \\
& + 347/77760/(mass(3))*\ln(3)^2*F^{\wedge}-3*\sinx*\sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-1 - 289/19440/(mass(3))*\ln(3)^2*F^{\wedge}- \\
& 3*\sinx^2*\cosx*pi^{\wedge}-4*m83^{\wedge}-1 + 1/243/(mass(3))*\ln(3)^2*F^{\wedge}-3*\sinx^4*\cosx*pi^{\wedge}- \\
& 4*m83^{\wedge}-1 + 479/110592/(mass(4))*\ln(4)^2*F^{\wedge}-3*\cosx*pi^{\wedge}-4*m83^{\wedge}-1 - \\
& 481/36864/(mass(4))*\ln(4)^2*F^{\wedge}-3*\sinx*\sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-1 - 61/6912/(mass(4))*\ln(4)^2*F^{\wedge}- \\
& 3*\sinx^2*\cosx*pi^{\wedge}-4*m83^{\wedge}-1 + 11/768/(mass(4))*\ln(4)^2*F^{\wedge}-3*\sinx^3*\sqrt{3}*pi^{\wedge}- \\
& 4*m83^{\wedge}-1 + 503/110592/(mass(5))*\ln(4)^2*F^{\wedge}-3*\cosx*pi^{\wedge}-4*m83^{\wedge}-1 - \\
& 163/12288/(mass(5))*\ln(4)^2*F^{\wedge}-3*\sinx*\sqrt{3}*pi^{\wedge}-4*m83^{\wedge}-1 - 61/6912/(mass(5))*\ln(4)^2*F^{\wedge}- \\
& 3*\sinx^2*\cosx*pi^{\wedge}-4*m83^{\wedge}-1 + 11/768/(mass(5))*\ln(4)^2*F^{\wedge}-3*\sinx^3*\sqrt{3}*pi^{\wedge}- \\
& 4*m83^{\wedge}-1 - 479/110592/(mass(6))*\ln(6)^2*F^{\wedge}-3*\cosx*pi^{\wedge}-4*m83^{\wedge}-1 +
\end{aligned}$$

$$\begin{aligned}
& 301/20480/(mass(6))*ln(6)^2F^{-3}sinx*sqrt3*pi^{-4}m83^{-1} - 61/6912/(mass(6))*ln(6)^2F^{-3}sinx^2*cosx*pi^{-4}m83^{-1} - 11/768/(mass(6))*ln(6)^2F^{-3}sinx^3*sqrt3*pi^{-4}m83^{-1} - 503/110592/(mass(7))*ln(6)^2F^{-3}cosx*pi^{-4}m83^{-1} + 2749/184320/(mass(7))*ln(6)^2F^{-3}sinx*sqrt3*pi^{-4}m83^{-1} - 61/6912/(mass(7))*ln(6)^2F^{-3}sinx^2*cosx*pi^{-4}m83^{-1} - 11/768/(mass(7))*ln(6)^2F^{-3}sinx^3*sqrt3*pi^{-4}m83^{-1} - 1/972/(mass(8))*ln(8)^2F^{-3}sinx*sqrt3*pi^{-4}m83^{-1} - 131/19440/(mass(8))*ln(8)^2F^{-3}sinx^2*cosx*pi^{-4}m83^{-1} - 1/243/(mass(8))*ln(8)^2F^{-3}sinx^4*cosx*pi^{-4}m83^{-1}) \\
& + mud*mp2^2 * (+ 29/11664/(mass(3))*ln(3)^2F^{-3}sinx*sqrt3*pi^{-4}m83^{-2} - 1/729/(mass(3))*ln(3)^2F^{-3}sinx^2*cosx*pi^{-4}m83^{-2} + 1/1728/(mass(4))*ln(4)^2F^{-3}cosx*pi^{-4}m83^{-2} + 1/1728/(mass(4))*ln(4)^2F^{-3}sinx*sqrt3*pi^{-4}m83^{-2} - 1/1728/(mass(6))*ln(6)^2F^{-3}cosx*pi^{-4}m83^{-2} + 5/1728/(mass(6))*ln(6)^2F^{-3}sinx*sqrt3*pi^{-4}m83^{-2} - 1/5832/(mass(8))*ln(8)^2F^{-3}sinx*sqrt3*pi^{-4}m83^{-2} + 1/729/(mass(8))*ln(8)^2F^{-3}sinx^2*cosx*pi^{-4}m83^{-2}) \\
& + mud*mp2^2 * (- 11467/4976640F^{-3}sinx*sqrt3*pi^{-4}m83^{-1} - 3373/7464960F^{-3}sinx*sqrt3*pi^{-2}m83^{-1} - 2/27F^{-3}sinx*sqrt3*pi^{-2}L8r*m83^{-1} - 2/27F^{-3}sinx*sqrt3*pi^{-2}L7r*m83^{-1} - 5/27F^{-3}sinx*sqrt3*pi^{-2}L6r*m83^{-1} + 2/81F^{-3}sinx*sqrt3*pi^{-2}L5r*m83^{-1} + 5/54F^{-3}sinx*sqrt3*pi^{-2}L4r*m83^{-1} - 5/432F^{-3}sinx*sqrt3*pi^{-2}L3r*m83^{-1} + 2432/27F^{-3}sinx*sqrt3*L5r*L8r*m83^{-1} + 2432/9F^{-3}sinx*sqrt3*L5r*L7r*m83^{-1} + 128/9F^{-3}sinx*sqrt3*L4r*L8r*m83^{-1} + 128/9F^{-3}sinx*sqrt3*CC33*m83^{-1} + 64/9F^{-3}sinx*sqrt3*CC32*m83^{-1} + 64/9F^{-3}sinx*sqrt3*CC31*m83^{-1} + 64/9F^{-3}sinx*sqrt3*CC20*m83^{-1} + 32/3F^{-3}sinx*sqrt3*CC19*m83^{-1} + 160/9F^{-3}sinx*sqrt3*CC18*m83^{-1} + 160/27F^{-3}sinx*sqrt3*CC17*m83^{-1} + 160/27F^{-3}sinx*sqrt3*CC14*m83^{-1} + 125/62208C^2F^{-3}sinx*sqrt3*pi^{-4}m83^{-1} - 10/27C^2F^{-3}sinx*sqrt3*pi^{-2}L8r*m83^{-1} - 16/9C^2F^{-3}sinx*sqrt3*pi^{-2}L7r*m83^{-1} - 2/9C^2F^{-3}sinx*sqrt3*pi^{-2}L5r*m83^{-1} - 23/34560C^2F^{-3}sinx*sqrt3*pi^{-4}m83^{-1} + 3/1280C^2ln(1)F^{-3}sinx*sqrt3*pi^{-4}m83^{-1} - 1/288C^2ln(1)F^{-3}sinx^2*cosx*pi^{-4}m83^{-1} + 83/51840C^2ln(3)F^{-3}sinx*sqrt3*pi^{-4}m83^{-1} - 1/864C^2ln(3)F^{-3}sinx^2*cosx*pi^{-4}m83^{-1} + 1/432C^2ln(3)F^{-3}sinx^4*cosx*pi^{-4}m83^{-1} - 1/2304C^2ln(4)F^{-3}sinx*sqrt3*pi^{-4}m83^{-1} + 1/576C^2ln(4)F^{-3}sinx^2*cosx*pi^{-4}m83^{-1} + 1/1728C^2ln(4)F^{-3}sinx^3*sqrt3*pi^{-4}m83^{-1} + 1/2304C^2ln(6)F^{-3}cosx*pi^{-4}m83^{-1} + 13/34560C^2ln(6)F^{-3}sinx*sqrt3*pi^{-4}m83^{-1} + 1/576C^2ln(6)F^{-3}sinx^2*cosx*pi^{-4}m83^{-1} - 1/1728C^2ln(6)F^{-3}sinx^3*sqrt3*pi^{-4}m83^{-1} + 13/10368C^2ln(8)F^{-3}sinx*sqrt3*pi^{-4}m83^{-1} + 1/864C^2ln(8)F^{-3}sinx^2*cosx*pi^{-4}m83^{-1} - 1/432C^2ln(8)F^{-3}sinx^4*cosx*pi^{-4}m83^{-1} - 65/82944ln(1)F^{-3}sinx*sqrt3*pi^{-4}m83^{-1} + 11/27ln(1)F^{-3}sinx*sqrt3*pi^{-2}L8r*m83^{-1} + 2/3ln(1)F^{-3}sinx*sqrt3*pi^{-2}L7r*m83^{-1} + 2/9ln(1)F^{-3}sinx*sqrt3*pi^{-2}L6r*m83^{-1} - 35/108ln(1)F^{-3}sinx*sqrt3*pi^{-2}L5r*m83^{-1} - 1/12ln(1)F^{-3}sinx*sqrt3*pi^{-2}L4r*m83^{-1} - 1/12ln(1)F^{-3}sinx*sqrt3*pi^{-2}L3r*m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1 - 49/20736 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} - 164/27 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} L8r m83^{-1} - 152/9 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} L7r m83^{-1} + 8/3 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} L6r m83^{-1} + 5/9 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} L5r m83^{-1} - \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} L4r m83^{-1} - 1/6 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} L3r m83^{-1} - 1/324 \ln(1) F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-1} + 160/27 \ln(1) F^{-3} \sin x^4 \cos x \pi^{-2} L8r m83^{-1} + 160/9 \ln(1) F^{-3} \sin x^4 \cos x \pi^{-2} L7r m83^{-1} - 13/34560 \ln(1)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1} - 1/1728 \ln(1)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} - 199/414720 \ln(1) \ln(3) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1} - 161/207360 \ln(1) \ln(3) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} - 49/5184 \ln(1) \ln(3) F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-1} + 1/288 \ln(1) \ln(3) F^{-3} \sin x^6 \cos x \pi^{-4} m83^{-1} + 25/55296 \ln(1) \ln(4) F^{-3} \cos x \pi^{-4} m83^{-1} - 7/165888 \ln(1) \ln(4) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1} + 1/576 \ln(1) \ln(4) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} - 49/20736 \ln(1) \ln(4) F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-1} - 5/864 \ln(1) \ln(4) F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-1} + 5/1728 \ln(1) \ln(4) F^{-3} \sin x^5 \sqrt{3} \pi^{-4} m83^{-1} - 25/55296 \ln(1) \ln(6) F^{-3} \cos x \pi^{-4} m83^{-1} + 683/829440 \ln(1) \ln(6) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1} + 1/576 \ln(1) \ln(6) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} + 49/20736 \ln(1) \ln(6) F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-1} - 5/864 \ln(1) \ln(6) F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-1} - 5/1728 \ln(1) \ln(6) F^{-3} \sin x^5 \sqrt{3} \pi^{-4} m83^{-1} - 77/82944 \ln(1) \ln(8) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1} - 599/207360 \ln(1) \ln(8) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} + 1/576 \ln(1) \ln(8) F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-1} - 1/288 \ln(1) \ln(8) F^{-3} \sin x^6 \cos x \pi^{-4} m83^{-1} + 1/5184 \ln(3) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1} - 139/162 \ln(3) F^{-3} \sin x \sqrt{3} \pi^{-2} L8r m83^{-1} - 46/27 \ln(3) F^{-3} \sin x \sqrt{3} \pi^{-2} L7r m83^{-1} - 1/27 \ln(3) F^{-3} \sin x \sqrt{3} \pi^{-2} L6r m83^{-1} + 7/216 \ln(3) F^{-3} \sin x \sqrt{3} \pi^{-2} L5r m83^{-1} + 1/72 \ln(3) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} + 4/3 \ln(3) F^{-3} \sin x^2 \cos x \pi^{-2} L8r m83^{-1} + 16/9 \ln(3) F^{-3} \sin x^2 \cos x \pi^{-2} L7r m83^{-1} + 8/9 \ln(3) F^{-3} \sin x^2 \cos x \pi^{-2} L6r m83^{-1} - 7/27 \ln(3) F^{-3} \sin x^2 \cos x \pi^{-2} L5r m83^{-1} - 1/3 \ln(3) F^{-3} \sin x^2 \cos x \pi^{-2} L4r m83^{-1} - 1/648 \ln(3) F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-1} + 184/27 \ln(3) F^{-3} \sin x^4 \cos x \pi^{-2} L8r m83^{-1} + 224/9 \ln(3) F^{-3} \sin x^4 \cos x \pi^{-2} L7r m83^{-1} - 16/9 \ln(3) F^{-3} \sin x^4 \cos x \pi^{-2} L6r m83^{-1} + 14/27 \ln(3) F^{-3} \sin x^4 \cos x \pi^{-2} L5r m83^{-1} + 2/3 \ln(3) F^{-3} \sin x^4 \cos x \pi^{-2} L4r m83^{-1} - 256/27 \ln(3) F^{-3} \sin x^6 \cos x \pi^{-4} m83^{-1} - 256/9 \ln(3) F^{-3} \sin x^6 \cos x \pi^{-2} L7r m83^{-1} + 85/248832 \ln(3)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1} - 67/82944 \ln(3)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} - 23/5184 \ln(3)^2 F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-1} + 31/5184 \ln(3)^2 F^{-3} \sin x^6 \cos x \pi^{-4} m83^{-1} - 1/3240 \ln(3) \ln(4) F^{-3} \cos x \pi^{-4} m83^{-1} + 211/207360 \ln(3) \ln(4) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1} + 641/414720 \ln(3) \ln(4) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} - 463/138240 \ln(3) \ln(4) F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-1} - 71/10368 \ln(3) \ln(4) F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-1} + 5/1296 \ln(3) \ln(4) F^{-3} \sin x^5 \sqrt{3} \pi^{-4} m83^{-1} + 13/1728 \ln(3) \ln(4) F^{-3} \sin x^6 \cos x \pi^{-4} m83^{-1} - 7/5184 \ln(3) \ln(4) F^{-3} \sin x^7 \sqrt{3} \pi^{-4} m83^{-1} + 1/3240 \ln(3) \ln(6) F^{-3} \cos x \pi^{-4} m83^{-1} - 181/207360 \ln(3) \ln(6) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-1} + 641/414720 \ln(3) \ln(6) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-1} + 463/138240 \ln(3) \ln(6) F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-1} - 71/10368 \ln(3) \ln(6) F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 4^*m83^{-1} - 5/1296*\ln(3)*\ln(6)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}*m83^{-1} + 13/1728*\ln(3)*\ln(6)*F^{-3}*\sinx^6*\cosx*\pi^{-4}*m83^{-1} + 7/5184*\ln(3)*\ln(6)*F^{-3}*\sinx^7*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/31104*\ln(3)*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-1} + 11/41472*\ln(3)*\ln(8)*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-1} - 1/1296*\ln(3)*\ln(8)*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-1} + 1/2592*\ln(3)*\ln(8)*F^{-3}*\sinx^6*\cosx*\pi^{-4}*m83^{-1} - 1/1728*\ln(4)*F^{-3}*\cosx*\pi^{-4}*m83^{-1} - 4/3*\ln(4)*F^{-3}*\cosx*\pi^{-2}*L8r*m83^{-1} - 10/3*\ln(4)*F^{-3}*\cosx*\pi^{-2}*L7r*m83^{-1} + 1/3*\ln(4)*F^{-3}*\cosx*\pi^{-2}*L6r*m83^{-1} + 11/72*\ln(4)*F^{-3}*\cosx*\pi^{-2}*L5r*m83^{-1} - 1/8*\ln(4)*F^{-3}*\cosx*\pi^{-2}*L4r*m83^{-1} - 1/48*\ln(4)*F^{-3}*\cosx*\pi^{-2}*L3r*m83^{-1} + 1/1296*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-1} + 10/3*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} + 1/3*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} - 37/72*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} - 1/8*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} - 1/48*\ln(4)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} + 49/41472*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-1} + 82/27*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L8r*m83^{-1} + 76/9*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L7r*m83^{-1} - 4/3*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L6r*m83^{-1} - 5/18*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L5r*m83^{-1} + 1/2*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L4r*m83^{-1} + 1/12*\ln(4)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L3r*m83^{-1} - 91/41472*\ln(4)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 10/9*\ln(4)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} + 4/9*\ln(4)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} + 31/54*\ln(4)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} + 1/6*\ln(4)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} + 1/36*\ln(4)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} + 1/648*\ln(4)*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-1} - 80/27*\ln(4)*F^{-3}*\sinx^4*\cosx*\pi^{-2}*L8r*m83^{-1} - 80/9*\ln(4)*F^{-3}*\sinx^4*\cosx*\pi^{-2}*L7r*m83^{-1} + 1/648*\ln(4)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}*m83^{-1} - 80/27*\ln(4)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} - 80/9*\ln(4)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} - 11/55296*\ln(4)^2*F^{-3}*\cosx*\pi^{-4}*m83^{-1} + 5/18432*\ln(4)^2*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-1} - 7/6912*\ln(4)^2*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-1} - 31/20736*\ln(4)^2*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 5/3456*\ln(4)^2*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/1152*\ln(4)*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-1} + 5/1728*\ln(4)*\ln(6)*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-1} - 307/414720*\ln(4)*\ln(8)*F^{-3}*\cosx*\pi^{-4}*m83^{-1} + 703/414720*\ln(4)*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-1} + 119/414720*\ln(4)*\ln(8)*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-1} - 1171/414720*\ln(4)*\ln(8)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 37/3456*\ln(4)*\ln(8)*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-1} - 13/1728*\ln(4)*\ln(8)*F^{-3}*\sinx^6*\cosx*\pi^{-4}*m83^{-1} + 7/5184*\ln(4)*\ln(8)*F^{-3}*\sinx^7*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/1728*\ln(6)*F^{-3}*\cosx*\pi^{-4}*m83^{-1} + 4/3*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L8r*m83^{-1} + 10/3*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L7r*m83^{-1} - 1/3*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L6r*m83^{-1} - 11/72*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L5r*m83^{-1} + 1/8*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L4r*m83^{-1} + 1/48*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L3r*m83^{-1} - 7/10368*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-1} - 130/27*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} - 10*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} - 7/9*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} + 53/72*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} + 7/24*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} + 5/144*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L3r*m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1 + 49/41472*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 82/27*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1} + 76/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1} - 4/3*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1} - 5/18*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1} + 1/2*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1} + 1/12*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r*m83^{-1} + 91/41472*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 10/9*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} - 1 - 4/9*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} + 4/9*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} - 31/54*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} - 1/6*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} - 1/36*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} + 1/648*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 80/27*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1} - 80/9*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1} - 1/648*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} + 80/27*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} + 80/9*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} + 11/55296*\ln(6)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} + 29/165888*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 7/6912*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 31/20736*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 5/1152*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 5/3456*\ln(6)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} + 307/414720*\ln(6)*\ln(8)*F^{-3}*\cos x*\pi^{-4}*m83^{-1} - 41/138240*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 119/414720*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 1171/414720*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 37/3456*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 13/1728*\ln(6)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} - 7/5184*\ln(6)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/62208*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 7/18*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1} + 8/9*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} - 1 - 1/9*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} - 89/648*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} + 1/24*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} - 1/1296*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 4/3*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1} - 16/9*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1} - 8/9*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1} + 7/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1} + 1/3*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1} + 1/648*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 184/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1} - 1 - 224/9*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1} + 16/9*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-1} - 14/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-1} - 2/3*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-1} + 256/27*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-1} + 256/9*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-1} - 25/248832*\ln(8)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 5/9216*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 1/192*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 11/1728*\ln(8)^2*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} + 1/8192/(mass(1))*\ln(1)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 1/3840/(mass(1))*\ln(1)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} + 1/73728/(mass(2))*\ln(1)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 1/23040/(mass(2))*\ln(1)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 11/221184/(mass(3))*\ln(3)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 1/4320/(mass(3))*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/2160/(mass(3))*\ln(3)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4} + 1/40960/(mass(4))*\ln(4)^2*F^{-3}*\cos x*\pi^{-4} + 11/122880/(mass(4))*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 1/7680/(mass(4))*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/9216/(mass(4))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 11/368640/(mass(5))*\ln(4)^2*F^{-3}*\cos x*\pi^{-4} +
\end{aligned}$$

$$\begin{aligned}
& 31/122880/(\text{mass}(5))^{\ln(4)^2 F^{-3} \sin x^{\sqrt{3} \pi^{-4}} - 1/46080/(\text{mass}(5))^{\ln(4)^2 F^{-3} \sin x^{\sqrt{3} \pi^{-4}} - 3 \sin^2 \cos x \pi^{-4}} - 1/3456/(\text{mass}(5))^{\ln(4)^2 F^{-3} \sin x^{\sqrt{3} \pi^{-4}} - 3 \sin^3 \sqrt{3} \pi^{-4}} - \\
& 1/40960/(\text{mass}(6))^{\ln(6)^2 F^{-3} \cos x \pi^{-4}} - 47/368640/(\text{mass}(6))^{\ln(6)^2 F^{-3} \sin x^{\sqrt{3} \pi^{-4}} - 3 \sin x^{\sqrt{3} \pi^{-4}} - 1/7680/(\text{mass}(6))^{\ln(6)^2 F^{-3} \sin x^2 \cos x \pi^{-4}} + \\
& 1/9216/(\text{mass}(6))^{\ln(6)^2 F^{-3} \sin x^3 \sqrt{3} \pi^{-4}} + 11/368640/(\text{mass}(7))^{\ln(6)^2 F^{-3} \cos x \pi^{-4}} - 361/1105920/(\text{mass}(7))^{\ln(6)^2 F^{-3} \sin x^{\sqrt{3} \pi^{-4}} - 1/46080/(\text{mass}(7))^{\ln(6)^2 F^{-3} \sin x^2 \cos x \pi^{-4}} + 1/3456/(\text{mass}(7))^{\ln(6)^2 F^{-3} \sin x^3 \sqrt{3} \pi^{-4}} - 1/4096/(\text{mass}(8))^{\ln(8)^2 F^{-3} \cos x \pi^{-4}} - 721/3317760/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x^{\sqrt{3} \pi^{-4}} - 1/4320/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4}} + \\
& 1/2160/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x^4 \cos x \pi^{-4}}) \\
& + \text{mud}^{\text{mpp}2^2 \text{m} \text{kp}2} * (- 5/1728 F^{-3} \sin x^{\sqrt{3} \pi^{-4}} \text{m}83^{-2} - 5/10368 F^{-3} \sin x^{\sqrt{3} \pi^{-2}} \text{m}83^{-2} - 512 F^{-3} \sin x^{\sqrt{3} \text{L}8\text{r}^2 \text{m}83^{-2}} - 34304/9 F^{-3} \sin x^{\sqrt{3} \text{L}7\text{r}^* \text{L}8\text{r}^* \text{m}83^{-2}} - 20480/3 F^{-3} \sin x^{\sqrt{3} \text{L}7\text{r}^2 \text{m}83^{-2}} + 512/9 F^{-3} \sin x^{\sqrt{3} \text{L}6\text{r}^* \text{L}8\text{r}^* \text{m}83^{-2}} + 512/3 F^{-3} \sin x^{\sqrt{3} \text{L}6\text{r}^* \text{L}7\text{r}^* \text{m}83^{-2}} + 2816/27 F^{-3} \sin x^{\sqrt{3} \text{L}5\text{r}^* \text{L}8\text{r}^* \text{m}83^{-2}} + 2816/9 F^{-3} \sin x^{\sqrt{3} \text{L}5\text{r}^* \text{L}7\text{r}^* \text{m}83^{-2}} - 256/9 F^{-3} \sin x^{\sqrt{3} \text{L}4\text{r}^* \text{L}8\text{r}^* \text{m}83^{-2}} - 256/3 F^{-3} \sin x^{\sqrt{3} \text{L}4\text{r}^* \text{L}7\text{r}^* \text{m}83^{-2}} + 532480/27 F^{-3} \sin x^2 \cos x \text{L}8\text{r}^2 \text{m}83^{-2} + 352256/3 F^{-3} \sin x^2 \cos x \text{L}7\text{r}^* \text{L}8\text{r}^* \text{m}83^{-2} + 524288/3 F^{-3} \sin x^2 \cos x \text{L}7\text{r}^2 \text{m}83^{-2} + 8192/9 F^{-3} \sin x^2 \cos x \text{L}6\text{r}^* \text{L}8\text{r}^* \text{m}83^{-2} + 8192/3 F^{-3} \sin x^2 \cos x \text{L}6\text{r}^* \text{L}7\text{r}^* \text{m}83^{-2} - 4096/27 F^{-3} \sin x^2 \cos x \text{L}5\text{r}^* \text{L}8\text{r}^* \text{m}83^{-2} - 4096/9 F^{-3} \sin x^2 \cos x \text{L}5\text{r}^* \text{L}7\text{r}^* \text{m}83^{-2} - 4096/9 F^{-3} \sin x^2 \cos x \text{L}4\text{r}^* \text{L}8\text{r}^* \text{m}83^{-2} - 4096/3 F^{-3} \sin x^2 \cos x \text{L}4\text{r}^* \text{L}7\text{r}^* \text{m}83^{-2} - 262144/9 F^{-3} \sin x^4 \cos x \text{L}8\text{r}^2 \text{m}83^{-2} - 524288/3 F^{-3} \sin x^4 \cos x \text{L}7\text{r}^* \text{L}8\text{r}^* \text{m}83^{-2} - 262144 F^{-3} \sin x^4 \cos x \text{L}7\text{r}^2 \text{m}83^{-2} - 16/9 C F^{-3} \sin x^{\sqrt{3} \pi^{-2}} \text{L}8\text{r}^* \text{m}83^{-2} - 16/3 C F^{-3} \sin x^{\sqrt{3} \pi^{-4}} \text{L}7\text{r}^* \text{m}83^{-2} + 1/216 C \ln(1) F^{-3} \sin x^{\sqrt{3} \pi^{-4}} \text{m}83^{-2} + 7/5184 C \ln(3) F^{-3} \sin x^{\sqrt{3} \pi^{-4}} \text{m}83^{-2} + 1/324 C \ln(3) F^{-3} \sin x^2 \cos x \pi^{-4} \text{m}83^{-2} + 1/1728 C \ln(4) F^{-3} \cos x \pi^{-4} \text{m}83^{-2} + 1/1728 C \ln(4) F^{-3} \sin x^{\sqrt{3} \pi^{-4}} \text{m}83^{-2} - 1/1728 C \ln(6) F^{-3} \cos x \pi^{-4} \text{m}83^{-2} - 1/576 C \ln(6) F^{-3} \sin x^{\sqrt{3} \pi^{-4}} \text{m}83^{-2} + 5/5184 C \ln(8) F^{-3} \sin x^{\sqrt{3} \pi^{-4}} \text{m}83^{-2} - 1/324 C \ln(8) F^{-3} \sin x^2 \cos x \pi^{-4} \text{m}83^{-2} + 98/81 \ln(1) F^{-3} \sin x^{\sqrt{3} \pi^{-2}} \text{L}8\text{r}^* \text{m}83^{-2} + 142/27 \ln(1) F^{-3} \sin x^{\sqrt{3} \pi^{-2}} \text{L}7\text{r}^* \text{m}83^{-2} - 10/27 \ln(1) F^{-3} \sin x^{\sqrt{3} \pi^{-2}} \text{L}6\text{r}^* \text{m}83^{-2} - 4/27 \ln(1) F^{-3} \sin x^{\sqrt{3} \pi^{-2}} \text{L}5\text{r}^* \text{m}83^{-2} - 1/3 \ln(1) F^{-3} \sin x^{\sqrt{3} \pi^{-2}} \text{L}4\text{r}^* \text{m}83^{-2} - 16/27 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} \text{L}8\text{r}^* \text{m}83^{-2} - 32/9 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} \text{L}7\text{r}^* \text{m}83^{-2} + 16/9 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} \text{L}6\text{r}^* \text{m}83^{-2} - 8/27 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} \text{L}5\text{r}^* \text{m}83^{-2} - 8/9 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} \text{L}4\text{r}^* \text{m}83^{-2} + 128/9 \ln(1) F^{-3} \sin x^4 \cos x \pi^{-2} \text{L}8\text{r}^* \text{m}83^{-2} + 128/3 \ln(1) F^{-3} \sin x^4 \cos x \pi^{-2} \text{L}7\text{r}^* \text{m}83^{-2} + 1/7776 \ln(1) \ln(3) F^{-3} \sin x^{\sqrt{3} \pi^{-4}} \text{m}83^{-2} + 5/648 \ln(1) \ln(3) F^{-3} \sin x^4 \cos x \pi^{-4} \text{m}83^{-2} - 1/54 \ln(1) \ln(3) F^{-3} \sin x^6 \cos x \pi^{-4} \text{m}83^{-2} + 23/13824 \ln(1) \ln(4) F^{-3} \cos x \pi^{-4} \text{m}83^{-2} - 175/41472 \ln(1) \ln(4) F^{-3} \sin x^{\sqrt{3} \pi^{-4}} \text{m}83^{-2} + 1/432 \ln(1) \ln(4) F^{-3} \sin x^2 \cos x \pi^{-4} \text{m}83^{-2} + 7/432 \ln(1) \ln(4) F^{-3} \sin x^3 \sqrt{3} \pi^{-4} \text{m}83^{-2} - 1/72 \ln(1) \ln(4) F^{-3} \sin x^4 \cos x \pi^{-4} \text{m}83^{-2} - 1/72 \ln(1) \ln(4) F^{-3} \sin x^5 \sqrt{3} \pi^{-4} \text{m}83^{-2} - 23/13824 \ln(1) \ln(6) F^{-3} \cos x \pi^{-4} \text{m}83^{-2} + 41/41472 \ln(1) \ln(6) F^{-3} \sin x^{\sqrt{3} \pi^{-4}} \text{m}83^{-2} + 1/432 \ln(1) \ln(6) F^{-3} \sin x^2 \cos x \pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*m83^{\wedge}-2 - 7/432*\ln(1)*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*pi^{\wedge}-4^*m83^{\wedge}-2 - 1/72*\ln(1)*\ln(6)*F^{\wedge}- \\
& 3*\sin x^{\wedge}4*\cos x^*pi^{\wedge}-4^*m83^{\wedge}-2 + 1/72*\ln(1)*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}5*\sqrt{3}*pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 - 1/648*\ln(1)*\ln(8)*F^{\wedge}-3*\sin x^*sqrt{3}*pi^{\wedge}-4^*m83^{\wedge}-2 - 17/648*\ln(1)*\ln(8)*F^{\wedge}- \\
& 3*\sin x^{\wedge}4*\cos x^*pi^{\wedge}-4^*m83^{\wedge}-2 + 1/54*\ln(1)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}6*\cos x^*pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 + 1/3*\ln(3)*F^{\wedge}-3*\sin x^*sqrt{3}*pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 + 41/27*\ln(3)*F^{\wedge}- \\
& 3*\sin x^*sqrt{3}*pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 - 1/27*\ln(3)*F^{\wedge}-3*\sin x^*sqrt{3}*pi^{\wedge}-2^*L6r^*m83^{\wedge}- \\
& 2 - 2/27*\ln(3)*F^{\wedge}-3*\sin x^*sqrt{3}*pi^{\wedge}-2^*L5r^*m83^{\wedge}-2 - 1/54*\ln(3)*F^{\wedge}-3*\sin x^*sqrt{3}*pi^{\wedge}- \\
& 2^*L4r^*m83^{\wedge}-2 - 1936/81*\ln(3)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 - \\
& 1904/27*\ln(3)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 - 16/27*\ln(3)*F^{\wedge}- \\
& 3*\sin x^{\wedge}2*\cos x^*pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 - 8/27*\ln(3)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*pi^{\wedge}- \\
& 2^*L4r^*m83^{\wedge}-2 + 416/27*\ln(3)*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 + \\
& 1280/27*\ln(3)*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 - 32/27*\ln(3)*F^{\wedge}- \\
& 3*\sin x^{\wedge}4*\cos x^*pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 + 16/81*\ln(3)*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*pi^{\wedge}- \\
& 2^*L5r^*m83^{\wedge}-2 + 16/27*\ln(3)*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*pi^{\wedge}-2^*L4r^*m83^{\wedge}-2 + \\
& 512/27*\ln(3)*F^{\wedge}-3*\sin x^{\wedge}6*\cos x^*pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 + 512/9*\ln(3)*F^{\wedge}- \\
& 3*\sin x^{\wedge}6*\cos x^*pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 + 19/2592*\ln(3)^{\wedge}2^*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 + 7/972*\ln(3)^{\wedge}2^*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*pi^{\wedge}-4^*m83^{\wedge}-2 - 11/486*\ln(3)^{\wedge}2^*F^{\wedge}- \\
& 3*\sin x^{\wedge}6*\cos x^*pi^{\wedge}-4^*m83^{\wedge}-2 + 1/162*\ln(3)^{\wedge}2^*F^{\wedge}-3*\sin x^{\wedge}8*\cos x^*pi^{\wedge}-4^*m83^{\wedge}-2 - \\
& 2 + 5/9216*\ln(3)*\ln(4)*F^{\wedge}-3*\cos x^*pi^{\wedge}-4^*m83^{\wedge}-2 - 373/82944*\ln(3)*\ln(4)*F^{\wedge}- \\
& 3*\sin x^*sqrt{3}*pi^{\wedge}-4^*m83^{\wedge}-2 + 119/5184*\ln(3)*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 + 217/15552*\ln(3)*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*pi^{\wedge}-4^*m83^{\wedge}-2 - \\
& 13/648*\ln(3)*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*pi^{\wedge}-4^*m83^{\wedge}-2 - 37/1944*\ln(3)*\ln(4)*F^{\wedge}- \\
& 3*\sin x^{\wedge}5*\sqrt{3}*pi^{\wedge}-4^*m83^{\wedge}-2 - 1/108*\ln(3)*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}6*\cos x^*pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 + 1/108*\ln(3)*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}7*\sqrt{3}*pi^{\wedge}-4^*m83^{\wedge}-2 - 5/9216*\ln(3)*\ln(6)*F^{\wedge}- \\
& 3*\cos x^*pi^{\wedge}-4^*m83^{\wedge}-2 + 841/248832*\ln(3)*\ln(6)*F^{\wedge}-3*\sin x^*sqrt{3}*pi^{\wedge}-4^*m83^{\wedge}-2 \\
& + 119/5184*\ln(3)*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*pi^{\wedge}-4^*m83^{\wedge}-2 - 217/15552*\ln(3)*\ln(6)*F^{\wedge}- \\
& 3*\sin x^{\wedge}3*\sqrt{3}*pi^{\wedge}-4^*m83^{\wedge}-2 - 13/648*\ln(3)*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 + 37/1944*\ln(3)*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}5*\sqrt{3}*pi^{\wedge}-4^*m83^{\wedge}-2 - 1/108*\ln(3)*\ln(6)*F^{\wedge}- \\
& 3*\sin x^{\wedge}6*\cos x^*pi^{\wedge}-4^*m83^{\wedge}-2 - 1/108*\ln(3)*\ln(6)*F^{\wedge}-3*\sin x^{\wedge}7*\sqrt{3}*pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 - 13/31104*\ln(3)*\ln(8)*F^{\wedge}-3*\sin x^*sqrt{3}*pi^{\wedge}-4^*m83^{\wedge}-2 + 65/3888*\ln(3)*\ln(8)*F^{\wedge}- \\
& 3*\sin x^{\wedge}2*\cos x^*pi^{\wedge}-4^*m83^{\wedge}-2 - 11/324*\ln(3)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 + 5/243*\ln(3)*\ln(8)*F^{\wedge}-3*\sin x^{\wedge}6*\cos x^*pi^{\wedge}-4^*m83^{\wedge}-2 - 1/81*\ln(3)*\ln(8)*F^{\wedge}- \\
& 3*\sin x^{\wedge}8*\cos x^*pi^{\wedge}-4^*m83^{\wedge}-2 - 7/6*\ln(4)*F^{\wedge}-3*\cos x^*pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 \\
& - 32/9*\ln(4)*F^{\wedge}-3*\cos x^*pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 + 1/6*\ln(4)*F^{\wedge}-3*\cos x^*pi^{\wedge}- \\
& 2^*L6r^*m83^{\wedge}-2 - 5/108*\ln(4)*F^{\wedge}-3*\cos x^*pi^{\wedge}-2^*L5r^*m83^{\wedge}-2 - 7/36*\ln(4)*F^{\wedge}- \\
& 3*\cos x^*pi^{\wedge}-2^*L4r^*m83^{\wedge}-2 + 395/54*\ln(4)*F^{\wedge}-3*\sin x^*sqrt{3}*pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 \\
& + 596/27*\ln(4)*F^{\wedge}-3*\sin x^*sqrt{3}*pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 + 7/54*\ln(4)*F^{\wedge}- \\
& 3*\sin x^*sqrt{3}*pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 - 7/108*\ln(4)*F^{\wedge}-3*\sin x^*sqrt{3}*pi^{\wedge}-2^*L5r^*m83^{\wedge}- \\
& 2 - 1/36*\ln(4)*F^{\wedge}-3*\sin x^*sqrt{3}*pi^{\wedge}-2^*L4r^*m83^{\wedge}-2 - 112/3*\ln(4)*F^{\wedge}- \\
& 3*\sin x^{\wedge}2*\cos x^*pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 - 992/9*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*pi^{\wedge}- \\
& 2^*L7r^*m83^{\wedge}-2 - 16/9*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 + 8/27*\ln(4)*F^{\wedge}- \\
& 3*\sin x^{\wedge}2*\cos x^*pi^{\wedge}-2^*L5r^*m83^{\wedge}-2 + 8/9*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}2*\cos x^*pi^{\wedge}- \\
& 2^*L4r^*m83^{\wedge}-2 - 1120/81*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 - \\
& 1120/27*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}3*\sqrt{3}*pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 + 448/9*\ln(4)*F^{\wedge}- \\
& 3*\sin x^{\wedge}4*\cos x^*pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 + 448/3*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}4*\cos x^*pi^{\wedge}- \\
& 2^*L7r^*m83^{\wedge}-2 + 64/9*\ln(4)*F^{\wedge}-3*\sin x^{\wedge}5*\sqrt{3}*pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 +
\end{aligned}$$

$$\begin{aligned}
& 64/3*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 1/1728*\ln(4)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 209/41472*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 1/48*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 7/1296*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/36*\ln(4)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} \\
& - 1/6912*\ln(4)*\ln(6)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} + 1/20736*\ln(4)*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 11/432*\ln(4)*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} \\
& - 1/36*\ln(4)*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 25/27648*\ln(4)*\ln(8)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 1265/248832*\ln(4)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 137/5184*\ln(4)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 7/1728*\ln(4)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 29/648*\ln(4)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} \\
& + 19/1944*\ln(4)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/108*\ln(4)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} - 1/108*\ln(4)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 7/6*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L8r*m83^{-2} + 32/9*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L7r*m83^{-2} - 1/6*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L6r*m83^{-2} + 5/108*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L5r*m83^{-2} + 7/36*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L4r*m83^{-2} - 967/162*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 164/9*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 7/54*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} + 1/108*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} - 2 + 5/12*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} - 112/3*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} - 992/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} - 16/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} + 8/27*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} + 8/9*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} + 1120/81*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 1120/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 448/9*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} + 448/3*\ln(6)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} - 64/9*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 64/3*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 1/2304*\ln(6)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} + 215/41472*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/48*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 7/1296*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/36*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 25/27648*\ln(6)*\ln(8)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} + 1079/248832*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 137/5184*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 7/1728*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 29/648*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 19/1944*\ln(6)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/108*\ln(6)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 1/108*\ln(6)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} + 79/81*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 91/27*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 1/27*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} - 5/81*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} + 1/18*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} - 752/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} - 752/9*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} - 16/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} + 16/81*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} + 8/9*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} + 544/9*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} + 4864/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} + 32/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-2} - 16/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-2} - 16/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-2} - 512/27*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-2} - 512/9*\ln(8)*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^6 * \cos x^* \pi^{\wedge -2} * L7r * m83^{\wedge -2} - 13/31104 * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} + 77/7776 * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 11/486 * \ln(8)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 1/486 * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 6} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -} \\
& 2 + 1/162 * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 8} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 101/138240 / (\text{mass}(1)) * \ln(1)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + 5/2304 / (\text{mass}(1)) * \ln(1)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -1} + 61/138240 / (\text{mass}(2)) * \ln(1)^{\wedge 2} * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + \\
& 5/2304 / (\text{mass}(2)) * \ln(1)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 1237/622080 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} - 169/38880 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -1} - 1/243 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - \\
& 347/221184 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 1681/221184 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} - 19/3456 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -1} - 61/6912 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} - \\
& 347/221184 / (\text{mass}(5)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 1681/221184 / (\text{mass}(5)) * \ln(4)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} - 19/3456 / (\text{mass}(5)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -1} - 61/6912 / (\text{mass}(5)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + \\
& 347/221184 / (\text{mass}(6)) * \ln(6)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 10183/1105920 / (\text{mass}(6)) * \ln(6)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} - 19/3456 / (\text{mass}(6)) * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -1} + 61/6912 / (\text{mass}(6)) * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} + \\
& 347/221184 / (\text{mass}(7)) * \ln(6)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} - 10343/1105920 / (\text{mass}(7)) * \ln(6)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} - 19/3456 / (\text{mass}(7)) * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -1} + 61/6912 / (\text{mass}(7)) * \ln(6)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 3} * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} - \\
& 383/622080 / (\text{mass}(8)) * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -1} - 251/38880 / (\text{mass}(8)) * \ln(8)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -1} + 1/243 / (\text{mass}(8)) * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge -} \\
& 4^* m83^{\wedge -1}) \\
& + \text{mud} * \text{mpp}2^{\wedge 2} * \text{mkp}2^{\wedge 2} * (+ 1/1728 / (\text{mass}(1)) * \ln(1)^{\wedge 2} * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} - 35/31104 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - \\
& 5/1944 / (\text{mass}(3)) * \ln(3)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 1/3456 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge -} \\
& 3^* \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 1/3456 / (\text{mass}(4)) * \ln(4)^{\wedge 2} * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} + 1/3456 / (\text{mass}(6)) * \ln(6)^{\wedge 2} * F^{\wedge -3} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} + 5/3456 / (\text{mass}(6)) * \ln(6)^{\wedge 2} * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} + 35/31104 / (\text{mass}(8)) * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -} \\
& 4^* m83^{\wedge -2} + 5/1944 / (\text{mass}(8)) * \ln(8)^{\wedge 2} * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2}) \\
& + \text{mud} * \text{mpp}2^{\wedge 3} * (+ 20992/81 * F^{\wedge -3} * \sin x * \sqrt{3} * L8r^{\wedge 2} * m83^{\wedge -2} + 1536 * F^{\wedge -} \\
& 3^* \sin x * \sqrt{3} * L7r * L8r * m83^{\wedge -2} + 20480/9 * F^{\wedge -3} * \sin x * \sqrt{3} * L7r^{\wedge 2} * m83^{\wedge -2} + \\
& 3584/27 * F^{\wedge -3} * \sin x * \sqrt{3} * L6r * L8r * m83^{\wedge -2} + 3584/9 * F^{\wedge -3} * \sin x * \sqrt{3} * L6r * L7r * m83^{\wedge -} \\
& 2 - 3328/81 * F^{\wedge -3} * \sin x * \sqrt{3} * L5r * L8r * m83^{\wedge -2} - 3328/27 * F^{\wedge -3} * \sin x * \sqrt{3} * L5r * L7r * m83^{\wedge -} \\
& 2 + 1280/27 * F^{\wedge -3} * \sin x * \sqrt{3} * L4r * L8r * m83^{\wedge -2} + 1280/9 * F^{\wedge -3} * \sin x * \sqrt{3} * L4r * L7r * m83^{\wedge -} \\
& 2 - 532480/81 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* L8r^{\wedge 2} * m83^{\wedge -2} - 352256/9 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* L7r * L8r * m83^{\wedge -} \\
& 2 - 524288/9 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* L7r^{\wedge 2} * m83^{\wedge -2} - 8192/27 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* L6r * L8r * m83^{\wedge -} \\
& 2 - 8192/9 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* L6r * L7r * m83^{\wedge -2} + 4096/81 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* L5r * L8r * m83^{\wedge -} \\
& 2 + 4096/27 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* L5r * L7r * m83^{\wedge -2} + 4096/27 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* L4r * L8r * m83^{\wedge -} \\
& 2 + 4096/9 * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* L4r * L7r * m83^{\wedge -2} + 262144/27 * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* L8r^{\wedge 2} * m83^{\wedge -} \\
& 2 + 524288/9 * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* L7r * L8r * m83^{\wedge -2} + 262144/3 * F^{\wedge -3} * \sin x^{\wedge 4} * \cos x^* L7r^{\wedge 2} * m83^{\wedge -} \\
& 2 + 1/3888 * C * \ln(3) * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -2} - 1/972 * C * \ln(3) * F^{\wedge -} \\
& 3^* \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 1/3888 * C * \ln(8) * F^{\wedge -3} * \sin x * \sqrt{3} * \pi^{\wedge -4} * m83^{\wedge -} \\
& 2 + 1/972 * C * \ln(8) * F^{\wedge -3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge -4} * m83^{\wedge -2} - 85/81 * \ln(1) * F^{\wedge -}
\end{aligned}$$

$$\begin{aligned}
& 3^2 \sin x \sqrt{3} \pi^{-2} L8r^* m83^{-2} - 86/27 \ln(1) F^{-3} \sin x \sqrt{3} \pi^{-2} L7r^* m83^{-2} \\
& - 7/27 \ln(1) F^{-3} \sin x \sqrt{3} \pi^{-2} L6r^* m83^{-2} + 5/54 \ln(1) F^{-3} \sin x \sqrt{3} \pi^{-2} L5r^* m83^{-2} \\
& - 1/6 \ln(1) F^{-3} \sin x \sqrt{3} \pi^{-2} L4r^* m83^{-2} + 56/9 \ln(1) F^{-3} \sin^2 \cos x \pi^{-2} L8r^* m83^{-2} \\
& + 160/9 \ln(1) F^{-3} \sin^2 \cos x \pi^{-2} L7r^* m83^{-2} + 8/9 \ln(1) F^{-3} \sin^2 \cos x \pi^{-2} L6r^* m83^{-2} \\
& - 4/27 \ln(1) F^{-3} \sin^2 \cos x \pi^{-2} L5r^* m83^{-2} - 4/9 \ln(1) F^{-3} \sin^2 \cos x \pi^{-2} L4r^* m83^{-2} \\
& - 128/9 \ln(1) F^{-3} \sin^4 \cos x \pi^{-2} L8r^* m83^{-2} - 128/3 \ln(1) F^{-3} \sin^4 \cos x \pi^{-2} L7r^* m83^{-2} \\
& + 7/6912 \ln(1)^2 F^{-3} \sin^4 \cos x \pi^{-2} L6r^* m83^{-2} + 1/432 \ln(1)^2 F^{-3} \sin^4 \cos x \pi^{-2} L5r^* m83^{-2} \\
& - 11/3456 \ln(1) \ln(3) F^{-3} \sin^4 \cos x \pi^{-2} L4r^* m83^{-2} + 1/216 \ln(1) \ln(3) F^{-3} \sin^6 \cos x \pi^{-2} L8r^* m83^{-2} \\
& - 7/13824 \ln(1) \ln(4) F^{-3} \sin^6 \cos x \pi^{-2} L7r^* m83^{-2} + 71/41472 \ln(1) \ln(4) F^{-3} \sin^6 \cos x \pi^{-2} L6r^* m83^{-2} \\
& - 13/1728 \ln(1) \ln(4) F^{-3} \sin^2 \cos x \pi^{-2} L5r^* m83^{-2} - 1/576 \ln(1) \ln(4) F^{-3} \sin^3 \sqrt{3} \pi^{-4} m83^{-2} \\
& + 1/72 \ln(1) \ln(4) F^{-3} \sin^4 \cos x \pi^{-2} L8r^* m83^{-2} + 7/13824 \ln(1) \ln(6) F^{-3} \cos x \pi^{-4} m83^{-2} \\
& - 67/41472 \ln(1) \ln(6) F^{-3} \sin^2 \cos x \pi^{-2} L7r^* m83^{-2} + 1/576 \ln(1) \ln(6) F^{-3} \sin^3 \sqrt{3} \pi^{-4} m83^{-2} \\
& + 1/72 \ln(1) \ln(6) F^{-3} \sin^4 \cos x \pi^{-2} L6r^* m83^{-2} + 5/6912 \ln(1) \ln(8) F^{-3} \sin^4 \cos x \pi^{-2} L5r^* m83^{-2} \\
& + 13/864 \ln(1) \ln(8) F^{-3} \sin^6 \cos x \pi^{-2} L8r^* m83^{-2} - 55/10368 \ln(1) \ln(8) F^{-3} \sin^6 \cos x \pi^{-2} L7r^* m83^{-2} \\
& - 1/216 \ln(1) \ln(8) F^{-3} \sin^6 \cos x \pi^{-2} L6r^* m83^{-2} - 263/486 \ln(3) F^{-3} \sin^2 \cos x \pi^{-2} L5r^* m83^{-2} \\
& - 41/27 \ln(3) F^{-3} \sin^3 \sqrt{3} \pi^{-4} m83^{-2} + 5/54 \ln(3) F^{-3} \sin^4 \cos x \pi^{-2} L8r^* m83^{-2} \\
& - 13/972 \ln(3) F^{-3} \sin^4 \cos x \pi^{-2} L7r^* m83^{-2} - 13/324 \ln(3) F^{-3} \sin^4 \cos x \pi^{-2} L6r^* m83^{-2} \\
& + 2260/243 \ln(3) F^{-3} \sin^2 \cos x \pi^{-2} L5r^* m83^{-2} + 2192/81 \ln(3) F^{-3} \sin^2 \cos x \pi^{-2} L4r^* m83^{-2} \\
& + 52/81 \ln(3) F^{-3} \sin^2 \cos x \pi^{-2} L3r^* m83^{-2} - 2/27 \ln(3) F^{-3} \sin^2 \cos x \pi^{-2} L2r^* m83^{-2} \\
& - 10/81 \ln(3) F^{-3} \sin^2 \cos x \pi^{-2} L1r^* m83^{-2} - 1336/81 \ln(3) F^{-3} \sin^4 \cos x \pi^{-2} L8r^* m83^{-2} \\
& - 3968/81 \ln(3) F^{-3} \sin^4 \cos x \pi^{-2} L7r^* m83^{-2} - 40/81 \ln(3) F^{-3} \sin^4 \cos x \pi^{-2} L6r^* m83^{-2} \\
& + 20/243 \ln(3) F^{-3} \sin^4 \cos x \pi^{-2} L5r^* m83^{-2} + 20/81 \ln(3) F^{-3} \sin^4 \cos x \pi^{-2} L4r^* m83^{-2} \\
& + 256/81 \ln(3) F^{-3} \sin^4 \cos x \pi^{-2} L3r^* m83^{-2} + 256/27 \ln(3) F^{-3} \sin^6 \cos x \pi^{-2} L8r^* m83^{-2} \\
& + 23/82944 \ln(3)^2 F^{-3} \sin^6 \cos x \pi^{-2} L7r^* m83^{-2} + 109/31104 \ln(3)^2 F^{-3} \sin^6 \cos x \pi^{-2} L6r^* m83^{-2} \\
& + 251/46656 \ln(3)^2 F^{-3} \sin^6 \cos x \pi^{-2} L5r^* m83^{-2} + 1/729 \ln(3)^2 F^{-3} \sin^6 \cos x \pi^{-2} L4r^* m83^{-2} \\
& - 1/486 \ln(3)^2 F^{-3} \sin^6 \cos x \pi^{-2} L3r^* m83^{-2} - 55/248832 \ln(3) \ln(4) F^{-3} \cos x \pi^{-4} m83^{-2} \\
& + 491/746496 \ln(3) \ln(4) F^{-3} \sin^2 \cos x \pi^{-2} L8r^* m83^{-2} - 431/62208 \ln(3) \ln(4) F^{-3} \sin^2 \cos x \pi^{-2} L7r^* m83^{-2} \\
& + 5/186624 \ln(3) \ln(4) F^{-3} \sin^2 \cos x \pi^{-2} L6r^* m83^{-2} + 1/72 \ln(3) \ln(4) F^{-3} \sin^3 \sqrt{3} \pi^{-4} m83^{-2} \\
& + 1/5832 \ln(3) \ln(4) F^{-3} \sin^4 \cos x \pi^{-2} L8r^* m83^{-2} - 7/1296 \ln(3) \ln(4) F^{-3} \sin^4 \cos x \pi^{-2} L7r^* m83^{-2} \\
& - 1/1296 \ln(3) \ln(4) F^{-3} \sin^4 \cos x \pi^{-2} L6r^* m83^{-2} + 55/248832 \ln(3) \ln(6) F^{-3} \cos x \pi^{-4} m83^{-2} \\
& - 323/746496 \ln(3) \ln(6) F^{-3} \sin^2 \cos x \pi^{-2} L8r^* m83^{-2} - 431/62208 \ln(3) \ln(6) F^{-3} \sin^2 \cos x \pi^{-2} L7r^* m83^{-2} \\
& - 5/186624 \ln(3) \ln(6) F^{-3} \sin^2 \cos x \pi^{-2} L6r^* m83^{-2} + 1/72 \ln(3) \ln(6) F^{-3} \sin^3 \sqrt{3} \pi^{-4} m83^{-2} \\
& + 1/5832 \ln(3) \ln(6) F^{-3} \sin^4 \cos x \pi^{-2} L5r^* m83^{-2} - 1/5832 \ln(3) \ln(6) F^{-3} \sin^4 \cos x \pi^{-2} L4r^* m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^{\wedge} 5^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 \quad - \quad 7/1296^* \ln(3)^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 6^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 + 1/1296^* \ln(3)^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 7^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 71/373248^* \ln(3)^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 \quad - \quad 251/46656^* \ln(3)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 + 85/7776^* \ln(3)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 - 5/729^* \ln(3)^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 6^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 \quad + \quad 1/243^* \ln(3)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 8^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 \quad + \quad 19/162^* \ln(4)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 \quad + \quad 8/27^* \ln(4)^* F^{\wedge} - \\
& 3^* \cos x^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 \quad + \quad 1/18^* \ln(4)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L6r^* m83^{\wedge} -2 \\
& - \quad 1/108^* \ln(4)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L5r^* m83^{\wedge} -2 \quad - \quad 1/36^* \ln(4)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} - \\
& 2^* L4r^* m83^{\wedge} -2 - 443/486^* \ln(4)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 - 232/81^* \ln(4)^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 + 7/54^* \ln(4)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L6r^* m83^{\wedge} -2 \\
& - \quad 7/324^* \ln(4)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L5r^* m83^{\wedge} -2 \quad - \quad 7/108^* \ln(4)^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L4r^* m83^{\wedge} -2 \quad + \quad 764/81^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 2^* L8r^* m83^{\wedge} -2 + 256/9^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 - 4/27^* \ln(4)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L6r^* m83^{\wedge} -2 \quad + \quad 2/81^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 2^* L5r^* m83^{\wedge} -2 + 2/27^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L4r^* m83^{\wedge} -2 - 332/243^* \ln(4)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 \quad - \quad 320/81^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} - \\
& 2^* L7r^* m83^{\wedge} -2 - 4/27^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -2^* L6r^* m83^{\wedge} -2 + 2/81^* \ln(4)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -2^* L5r^* m83^{\wedge} -2 \quad + \quad 2/27^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} - \\
& 2^* L4r^* m83^{\wedge} -2 - 320/27^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 - 320/9^* \ln(4)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 \quad + \quad 64/27^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 5^* \sqrt{3}^* \pi^{\wedge} - \\
& 2^* L8r^* m83^{\wedge} -2 \quad + \quad 64/9^* \ln(4)^* F^{\wedge} -3^* \sin x^{\wedge} 5^* \sqrt{3}^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 \quad + \\
& 1/5184^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 5/124416^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 - 1/288^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 1/486^* \ln(4)^{\wedge} 2^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 1/432^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 \\
& - 1/432^* \ln(4)^{\wedge} 2^* F^{\wedge} -3^* \sin x^{\wedge} 5^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 5/20736^* \ln(4)^* \ln(6)^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 \quad - \quad 11/2592^* \ln(4)^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 + 1/216^* \ln(4)^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 11/248832^* \ln(4)^* \ln(8)^* F^{\wedge} - \\
& 3^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 \quad + \quad 353/746496^* \ln(4)^* \ln(8)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 \quad - \quad 329/62208^* \ln(4)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 \quad + \\
& 113/62208^* \ln(4)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 1/648^* \ln(4)^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 4^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 \quad - \quad 19/5832^* \ln(4)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 5^* \sqrt{3}^* \pi^{\wedge} - \\
& 4^* m83^{\wedge} -2 + 7/1296^* \ln(4)^* \ln(8)^* F^{\wedge} -3^* \sin x^{\wedge} 6^* \cos x^* \pi^{\wedge} -4^* m83^{\wedge} -2 + 1/1296^* \ln(4)^* \ln(8)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 7^* \sqrt{3}^* \pi^{\wedge} -4^* m83^{\wedge} -2 \quad - \quad 19/162^* \ln(6)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 \\
& - \quad 8/27^* \ln(6)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 \quad - \quad 1/18^* \ln(6)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} - \\
& 2^* L6r^* m83^{\wedge} -2 + 1/108^* \ln(6)^* F^{\wedge} -3^* \cos x^* \pi^{\wedge} -2^* L5r^* m83^{\wedge} -2 + 1/36^* \ln(6)^* F^{\wedge} - \\
& 3^* \cos x^* \pi^{\wedge} -2^* L4r^* m83^{\wedge} -2 + 479/486^* \ln(6)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 \\
& + \quad 256/81^* \ln(6)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 \quad - \quad 7/54^* \ln(6)^* F^{\wedge} - \\
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L6r^* m83^{\wedge} -2 + 1/108^* \ln(6)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L5r^* m83^{\wedge} - \\
& 2 \quad + \quad 5/36^* \ln(6)^* F^{\wedge} -3^* \sin x^* \sqrt{3}^* \pi^{\wedge} -2^* L4r^* m83^{\wedge} -2 \quad + \quad 764/81^* \ln(6)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 \quad + \quad 256/9^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 2^* L7r^* m83^{\wedge} -2 - 4/27^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L6r^* m83^{\wedge} -2 + 2/81^* \ln(6)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} -2^* L5r^* m83^{\wedge} -2 \quad + \quad 2/27^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 2^* \cos x^* \pi^{\wedge} - \\
& 2^* L4r^* m83^{\wedge} -2 \quad + \quad 332/243^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -2^* L8r^* m83^{\wedge} -2 \\
& + \quad 320/81^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -2^* L7r^* m83^{\wedge} -2 \quad + \quad 4/27^* \ln(6)^* F^{\wedge} - \\
& 3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -2^* L6r^* m83^{\wedge} -2 \quad - \quad 2/81^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} - \\
& 2^* L5r^* m83^{\wedge} -2 - 2/27^* \ln(6)^* F^{\wedge} -3^* \sin x^{\wedge} 3^* \sqrt{3}^* \pi^{\wedge} -2^* L4r^* m83^{\wedge} -2 - 320/27^* \ln(6)^* F^{\wedge} -
\end{aligned}$$

$$\begin{aligned}
& 3^2 \sin^4 x \cos^2 \pi - 2^2 L_8 r^m m_8^3 - 2 \quad - \quad 320/9 \ln(6) F^{-3} \sin^4 x \cos^2 \pi - \\
& 2^2 L_7 r^m m_8^3 - 2 - 64/27 \ln(6) F^{-3} \sin^5 x \sqrt{3} \pi - 2^2 L_8 r^m m_8^3 - 2 - 64/9 \ln(6) F^{-3} \sin^5 x \sqrt{3} \pi - \\
& 2^2 L_7 r^m m_8^3 - 2 - 1/5184 \ln(6)^2 F^{-3} \cos^2 \pi - 4^2 m_8^3 - 2 \quad - \quad 1/288 \ln(6)^2 F^{-3} \sin^2 x \cos^2 \pi - \\
& 4^2 m_8^3 - 2 - 1/486 \ln(6)^2 F^{-3} \sin^3 x \sqrt{3} \pi - 4^2 m_8^3 - 2 \quad + \quad 1/432 \ln(6)^2 F^{-3} \sin^5 x \sqrt{3} \pi - \\
& 4^2 m_8^3 - 2 - 11/248832 \ln(6) \ln(8) F^{-3} \cos^2 \pi - 4^2 m_8^3 - 2 - 329/62208 \ln(6) \ln(8) F^{-3} \sin^2 x \cos^2 \pi - \\
& 4^2 m_8^3 - 2 - 113/62208 \ln(6) \ln(8) F^{-3} \sin^3 x \sqrt{3} \pi - 4^2 m_8^3 - 2 + 19/5832 \ln(6) \ln(8) F^{-3} \sin^5 x \sqrt{3} \pi - \\
& 4^2 m_8^3 - 2 + 7/1296 \ln(6) \ln(8) F^{-3} \sin^6 x \cos^2 \pi - 4^2 m_8^3 - 2 - 1/1296 \ln(6) \ln(8) F^{-3} \sin^7 x \sqrt{3} \pi - \\
& 4^2 m_8^3 - 2 - 31/162 \ln(8) F^{-3} \sin^2 x \sqrt{3} \pi - 2^2 L_8 r^m m_8^3 - 2 - 53/81 \ln(8) F^{-3} \sin^2 x \sqrt{3} \pi - 2^2 L_7 r^m m_8^3 - \\
& 2 - 13/162 \ln(8) F^{-3} \sin^2 x \sqrt{3} \pi - 2^2 L_6 r^m m_8^3 - 2 + 13/324 \ln(8) F^{-3} \sin^2 x \sqrt{3} \pi - 2^2 L_5 r^m m_8^3 - \\
& 2 - 7/324 \ln(8) F^{-3} \sin^2 x \sqrt{3} \pi - 2^2 L_4 r^m m_8^3 - 2 + 644/81 \ln(8) F^{-3} \sin^2 x \cos^2 \pi - 2^2 L_8 r^m m_8^3 - 2 + 656/27 \ln(8) F^{-3} \sin^2 x \cos^2 \pi - \\
& 2^2 L_7 r^m m_8^3 - 2 - 20/81 \ln(8) F^{-3} \sin^2 x \cos^2 \pi - 2^2 L_6 r^m m_8^3 - 2 + 2/243 \ln(8) F^{-3} \sin^2 x \cos^2 \pi - 2^2 L_5 r^m m_8^3 - 2 - 2/27 \ln(8) F^{-3} \sin^2 x \cos^2 \pi - \\
& 2^2 L_4 r^m m_8^3 - 2 - 712/81 \ln(8) F^{-3} \sin^4 x \cos^2 \pi - 2^2 L_7 r^m m_8^3 - 2 + 40/81 \ln(8) F^{-3} \sin^4 x \cos^2 \pi - 2^2 L_6 r^m m_8^3 - 2 - 20/243 \ln(8) F^{-3} \sin^4 x \cos^2 \pi - 2^2 L_5 r^m m_8^3 - 2 - 20/81 \ln(8) F^{-3} \sin^4 x \cos^2 \pi - 2^2 L_4 r^m m_8^3 - 2 - 256/81 \ln(8) F^{-3} \sin^6 x \cos^2 \pi - 2^2 L_8 r^m m_8^3 - 2 - 256/27 \ln(8) F^{-3} \sin^6 x \cos^2 \pi - 2^2 L_7 r^m m_8^3 - 2 + 35/746496 \ln(8)^2 F^{-3} \sin^2 x \sqrt{3} \pi - 4^2 m_8^3 - 2 - 227/93312 \ln(8)^2 F^{-3} \sin^2 x \cos^2 \pi - 4^2 m_8^3 - 2 + 7/46656 \ln(8)^2 F^{-3} \sin^4 x \cos^2 \pi - 4^2 m_8^3 - 2 + 4/729 \ln(8)^2 F^{-3} \sin^6 x \cos^2 \pi - 4^2 m_8^3 - 2 - 1/486 \ln(8)^2 F^{-3} \sin^8 x \cos^2 \pi - 4^2 m_8^3 - 2 - 73/69120 / (\text{mass}(1)) \ln(1)^2 F^{-3} \sin^2 x \sqrt{3} \pi - 4^2 m_8^3 - 1 - 7/2304 / (\text{mass}(2)) \ln(2)^2 F^{-3} \sin^2 x \sqrt{3} \pi - 4^2 m_8^3 - 1 - 7/2304 / (\text{mass}(2)) \ln(2)^2 F^{-3} \sin^2 x \sqrt{3} \pi - 4^2 m_8^3 - 1 - 689/1866240 / (\text{mass}(3)) \ln(3)^2 F^{-3} \sin^2 x \sqrt{3} \pi - 4^2 m_8^3 - 1 + 349/116640 / (\text{mass}(3)) \ln(3)^2 F^{-3} \sin^2 x \cos^2 \pi - 4^2 m_8^3 - 1 - 5/2916 / (\text{mass}(3)) \ln(3)^2 F^{-3} \sin^4 x \cos^2 \pi - 4^2 m_8^3 - 1 - 1/8192 / (\text{mass}(4)) \ln(4)^2 F^{-3} \cos^2 \pi - 4^2 m_8^3 - 1 - 461/663552 / (\text{mass}(4)) \ln(4)^2 F^{-3} \sin^2 x \sqrt{3} \pi - 4^2 m_8^3 - 1 + 31/10368 / (\text{mass}(4)) \ln(4)^2 F^{-3} \sin^2 x \cos^2 \pi - 4^2 m_8^3 - 1 + 5/5184 / (\text{mass}(4)) \ln(4)^2 F^{-3} \sin^3 x \sqrt{3} \pi - 4^2 m_8^3 - 1 - 1/8192 / (\text{mass}(5)) \ln(4)^2 F^{-3} \cos^2 \pi - 4^2 m_8^3 - 1 - 461/663552 / (\text{mass}(5)) \ln(4)^2 F^{-3} \sin^2 x \sqrt{3} \pi - 4^2 m_8^3 - 1 + 31/10368 / (\text{mass}(5)) \ln(4)^2 F^{-3} \sin^2 x \cos^2 \pi - 4^2 m_8^3 - 1 + 5/5184 / (\text{mass}(5)) \ln(4)^2 F^{-3} \sin^3 x \sqrt{3} \pi - 4^2 m_8^3 - 1 + 1/8192 / (\text{mass}(6)) \ln(6)^2 F^{-3} \cos^2 \pi - 4^2 m_8^3 - 1 + 91/73728 / (\text{mass}(6)) \ln(6)^2 F^{-3} \sin^2 x \sqrt{3} \pi - 4^2 m_8^3 - 1 + 31/10368 / (\text{mass}(6)) \ln(6)^2 F^{-3} \sin^2 x \cos^2 \pi - 4^2 m_8^3 - 1 - 5/5184 / (\text{mass}(6)) \ln(6)^2 F^{-3} \sin^3 x \sqrt{3} \pi - 4^2 m_8^3 - 1 + 1/8192 / (\text{mass}(7)) \ln(6)^2 F^{-3} \cos^2 \pi - 4^2 m_8^3 - 1 + 91/73728 / (\text{mass}(7)) \ln(6)^2 F^{-3} \sin^2 x \sqrt{3} \pi - 4^2 m_8^3 - 1 + 31/10368 / (\text{mass}(7)) \ln(6)^2 F^{-3} \sin^2 x \cos^2 \pi - 4^2 m_8^3 - 1 - 5/5184 / (\text{mass}(7)) \ln(6)^2 F^{-3} \sin^3 x \sqrt{3} \pi - 4^2 m_8^3 - 1 + 533/1866240 / (\text{mass}(8)) \ln(8)^2 F^{-3} \sin^2 x \sqrt{3} \pi - 4^2 m_8^3 - 1 + 71/116640 / (\text{mass}(8)) \ln(8)^2 F^{-3} \sin^2 x \cos^2 \pi - 4^2 m_8^3 - 1 + 5/2916 / (\text{mass}(8)) \ln(8)^2 F^{-3} \sin^4 x \cos^2 \pi - 4^2 m_8^3 - 1
\end{aligned}$$

$$\begin{aligned}
& 3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}) \\
& + \text{mud}*\text{mpp}2^3*\text{mkp}2 * (- 1/432/(\text{mass}(1))*\ln(1)^2*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 11/93312/(\text{mass}(3))*\ln(3)^2*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + \\
& 1/5832/(\text{mass}(3))*\ln(3)^2*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 61/93312/(\text{mass}(8))*\ln(8)^2*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/5832/(\text{mass}(8))*\ln(8)^2*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2}) \\
& + \text{mud}*\text{mpp}2^4 * (- 1/23328/(\text{mass}(3))*\ln(3)^2*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/2916/(\text{mass}(3))*\ln(3)^2*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + \\
& 1/23328/(\text{mass}(8))*\ln(8)^2*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/2916/(\text{mass}(8))*\ln(8)^2*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2}) \\
& + \text{mud}^2 * (+ 1903/1474560*\text{F}^{-3}*\cos x*\pi^{-4} + 253/552960*\text{F}^{-3}*\cos x*\pi^{-2} - 19/24*\text{F}^{-3}*\cos x*\pi^{-2}*L8r - 3/4*\text{F}^{-3}*\cos x*\pi^{-2}*L6r + 19/48*\text{F}^{-3}*\cos x*\pi^{-2}*L5r + \\
& 3/8*\text{F}^{-3}*\cos x*\pi^{-2}*L4r - 35/576*\text{F}^{-3}*\cos x*\pi^{-2}*L3r - 35/144*\text{F}^{-3}*\cos x*\pi^{-2}*L2r - 7/72*\text{F}^{-3}*\cos x*\pi^{-2}*L1r - 56/9*\text{F}^{-3}*\cos x*L5r^2 - \\
& 32/3*\text{F}^{-3}*\cos x*L4r*L5r - 8*\text{F}^{-3}*\cos x*L4r^2 - 8/3*\text{F}^{-3}*\cos x*CC18 + 16/3*\text{F}^{-3}*\cos x*CC17 + 24*\text{F}^{-3}*\cos x*CC16 + 16/3*\text{F}^{-3}*\cos x*CC15 + \\
& 16/3*\text{F}^{-3}*\cos x*CC14 + 91/2211840*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 169/3317760*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2} - 17/72*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r - \\
& 1/4*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r + 17/144*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r + 1/8*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r - 1/1728*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r - \\
& 1/72*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L2r - 1/36*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L1r - 16/9*\text{F}^{-3}*\sin x*\sqrt{3}*L5r^2 - 16/3*\text{F}^{-3}*\sin x*\sqrt{3}*L4r*L5r - \\
& 8/3*\text{F}^{-3}*\sin x*\sqrt{3}*CC18 + 8/9*\text{F}^{-3}*\sin x*\sqrt{3}*CC17 + 8/3*\text{F}^{-3}*\sin x*\sqrt{3}*CC15 + 8/9*\text{F}^{-3}*\sin x*\sqrt{3}*CC14 - 89/276480*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4} - \\
& 7/51840*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2} + 1/9*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r - 1/18*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r - 1/72*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r + \\
& 64/3*\text{F}^{-3}*\sin x^2*\cos x*CC18 + 64/9*\text{F}^{-3}*\sin x^2*\cos x*CC17 + 64/9*\text{F}^{-3}*\sin x^2*\cos x*CC14 - 125/165888*C*\text{F}^{-3}*\cos x*\pi^{-4} - 1/12*C*\text{F}^{-3}*\cos x*\pi^{-2}*L8r + \\
& 1/12*C*\text{F}^{-3}*\cos x*\pi^{-2}*L5r + 125/497664*C*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 1/36*C*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r - 1/36*C*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r + \\
& 125/62208*C*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4} + 2/9*C*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r - 2/9*C*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r + 23/92160*C^2*\text{F}^{-3}*\cos x*\pi^{-4} - \\
& 23/276480*C^2*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4} - 23/34560*C^2*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/2560*C*\ln(3)*\text{F}^{-3}*\cos x*\pi^{-4} + 1/3840*C*\ln(3)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4} + \\
& 1/480*C*\ln(3)*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-4} - 1/11520*C*\ln(4)*\text{F}^{-3}*\cos x*\pi^{-4} - 19/138240*C*\ln(4)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 13/23040*C*\ln(4)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4} + \\
& 23/69120*C*\ln(4)*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 31/92160*C*\ln(6)*\text{F}^{-3}*\cos x*\pi^{-4} + 77/276480*C*\ln(6)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 13/23040*C*\ln(6)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4} - \\
& 23/69120*C*\ln(6)*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} - 1/2560*C*\ln(8)*\text{F}^{-3}*\cos x*\pi^{-4} + 1/480*C*\ln(8)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4} - 1/480*C*\ln(8)*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-4} - \\
& 7/18432*\ln(3)*\text{F}^{-3}*\cos x*\pi^{-4} + 1/36*\ln(3)*\text{F}^{-3}*\cos x*\pi^{-2}*L5r - 1/12*\ln(3)*\text{F}^{-3}*\cos x*\pi^{-2}*L4r + 1/24*\ln(3)*\text{F}^{-3}*\cos x*\pi^{-2}*L3r + \\
& 1/24*\ln(3)*\text{F}^{-3}*\cos x*\pi^{-2}*L2r + 1/6*\ln(3)*\text{F}^{-3}*\cos x*\pi^{-2}*L1r + 1/27648*\ln(3)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4} + 1/18*\ln(3)*\text{F}^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r} - 1/36^*\ln(3)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L3r} - 1/36^*\ln(3)^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L2r} - 1/9^*\ln(3)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L1r} + 1/2304^*\ln(3)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} - 1/27^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L5r} + 1/3456^*\ln(3)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} - 2/27^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L5r} - 1/110592^*\ln(3)^*\ln(4)^*F^{\wedge-} \\
& 3^*\cos x^*\pi^{\wedge-4} - 149/1658880^*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} + 1/4608^*\ln(3)^*\ln(4)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 13/69120^*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} - \\
& 1/34560^*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} - 1/103680^*\ln(3)^*\ln(4)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} - 169/552960^*\ln(3)^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-4} + 137/1658880^*\ln(3)^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-4} + 1/4608^*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} - 13/69120^*\ln(3)^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} - 1/34560^*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} + \\
& 1/103680^*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} - 1/24576^*\ln(4)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-} \\
& 4 + 1/24^*\ln(4)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L6r} + 1/288^*\ln(4)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L5r} - \\
& 1/32^*\ln(4)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L4r} + 17/73728^*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} - \\
& 1/36^*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r} - 5/72^*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L6r} \\
& + 7/864^*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L5r} + 5/96^*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*\text{L4r} + 1/48^*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L3r} - 1/3072^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-} \\
& 4 + 1/18^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L8r} - 1/36^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-} \\
& 2^*\text{L5r} - 1/24^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L3r} - 1/2304^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 4 + 1/18^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r} + 1/9^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*\text{L6r} - 1/54^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L5r} - 1/12^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*\text{L4r} - 1/24^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L3r} + 5/73728^*\ln(4)^{\wedge 2}*\text{F}^{\wedge-} \\
& 3^*\cos x^*\pi^{\wedge-4} + 1/17280^*\ln(4)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} - 1/3840^*\ln(4)^{\wedge 2}*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} - 13/69120^*\ln(4)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} - 1/4608^*\ln(4)^{\wedge 2}*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} - 13/61440^*\ln(4)^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-4} + 1/10240^*\ln(4)^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-4} + 1/2880^*\ln(4)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 1/2304^*\ln(4)^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} - 1/110592^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-4} + 223/1658880^*\ln(4)^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-4} - 17/69120^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} - 11/41472^*\ln(4)^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} + 1/34560^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} + \\
& 1/103680^*\ln(4)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} + 61/24576^*\ln(6)^*F^{\wedge-} \\
& 3^*\cos x^*\pi^{\wedge-4} - 19/24^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L8r} - 19/24^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-} \\
& 2^*\text{L6r} + 107/288^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L5r} + 3/32^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-} \\
& 2^*\text{L4r} + 15/32^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L3r} + 1/4^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L2r} \\
& + \ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L1r} + 31/73728^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} - \\
& 5/24^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r} - 13/72^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*\text{L6r} + 113/864^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L5r} + 13/96^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r} + 1/32^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L3r} - 1/3072^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 1/18^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L8r} - 1/36^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L5r} - 1/24^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L3r} + \\
& 1/2304^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} - 1/18^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*\text{L8r} - 1/9^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L6r} + 1/54^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*\text{L5r} + 1/12^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r} + 1/24^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*\text{L3r} + 77/368640^*\ln(6)^{\wedge 2}*\text{F}^{\wedge-3}*\cos x^*\pi^{\wedge-4} - 49/276480^*\ln(6)^{\wedge 2}*\text{F}^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-4} - 1/3840^*\ln(6)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 13/69120^*\ln(6)^{\wedge 2}*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} - 1/4608^*\ln(6)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} - 709/552960^*\ln(6)^*\ln(8)^*F^{\wedge-} \\
& 3^*\cos x^*\pi^{\wedge-4} - 1123/1658880^*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} - 17/69120^*\ln(6)^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} + 11/41472^*\ln(6)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} +
\end{aligned}$$

$$\begin{aligned}
& 1/34560*\ln(6)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}} - 1/103680*\ln(6)*\ln(8)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}} - 25/18432*\ln(8)*F^{-3*\cos x*\pi^{-4}} - 11/108*\ln(8)*F^{-3*\cos x*\pi^{-2}*L5r} - 7/36*\ln(8)*F^{-3*\cos x*\pi^{-2}*L4r} + 7/24*\ln(8)*F^{-3*\cos x*\pi^{-2}*L3r} + 7/12*\ln(8)*F^{-3*\cos x*\pi^{-2}*L2r} + 7/12*\ln(8)*F^{-3*\cos x*\pi^{-2}*L1r} - 5/9216*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}} - 1/54*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r} - 1/18*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r} + 1/12*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L3r} + 1/6*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L2r} + 1/6*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L1r} - 1/6912*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}} - 1/27*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r} - 1/3456*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}} + 2/27*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L5r} - 1/9*\text{Hb}(1,2,3,\text{plext.plext})*F^{-3*\cos x*m83^{-1}} + 2/9*\text{Hb}(1,2,3,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 8/9*\text{Hb}(1,2,3,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} - 4/9*\text{Hb}(1,2,3,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} - 1/9*\text{Hb}(1,2,3,1,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}} - 4/9*\text{Hb}(1,2,3,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} + 2/9*\text{Hb}(1,2,3,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} + 1/3*\text{Hb}(1,2,8,\text{plext.plext})*F^{-3*\cos x*m83^{-1}} - 4/9*\text{Hb}(1,2,8,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} + 4/9*\text{Hb}(1,2,8,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} - 1/6*\text{Hb}(1,2,8,1,\text{plext.plext})*F^{-3*\cos x} + 2/9*\text{Hb}(1,2,8,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} - 2/9*\text{Hb}(1,2,8,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} - 1/9*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 2/9*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} + 2/9*\text{Hb}(1,5,6,\text{plext.plext})*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 1/4*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3*\cos x} + 1/18*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}} - 1/9*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} - 1/9*\text{Hb}(1,5,6,1,\text{plext.plext})*F^{-3*\sin x^3*\sqrt{3}} - 1/9*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 2/9*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} + 2/9*\text{Hb}(2,4,7,\text{plext.plext})*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 1/4*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3*\cos x} + 1/18*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}} - 1/9*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} - 1/9*\text{Hb}(2,4,7,1,\text{plext.plext})*F^{-3*\sin x^3*\sqrt{3}} + 1/12*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3*\cos x*m83^{-1}} - 1/9*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} + 1/9*\text{Hb}(3,1,2,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} - 1/24*\text{Hb}(3,1,2,1,\text{plext.plext})*F^{-3*\cos x} + 1/18*\text{Hb}(3,1,2,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} - 1/18*\text{Hb}(3,1,2,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} - 2/81*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3*\cos x*m83^{-1}} + 2/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 4/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} + 88/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} - 64/81*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3*\sin x^6*\cos x*m83^{-1}} + 128/243*\text{Hb}(3,3,3,\text{plext.plext})*F^{-3*\sin x^8*\cos x*m83^{-1}} + 1/324*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3*\cos x} + 2/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} - 8/27*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} + 128/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3*\sin x^6*\cos x} - 64/243*\text{Hb}(3,3,3,1,\text{plext.plext})*F^{-3*\sin x^8*\cos x} + 2/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} - 4/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} - 56/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} + 64/27*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3*\sin x^6*\cos x*m83^{-1}} - 128/81*\text{Hb}(3,3,8,\text{plext.plext})*F^{-3*\sin x^8*\cos x*m83^{-1}} + 64/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} - 128/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3*\sin x^6*\cos x} + 64/81*\text{Hb}(3,3,8,1,\text{plext.plext})*F^{-3*\sin x^8*\cos x} - 5/108*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3*\cos x*m83^{-1}} - 11/1296*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}*m83^{-1}} + 5/54*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3*\sin x^2*\cos x*m83^{-1}} - 7/324*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3*\sin x^3*\sqrt{3}*m83^{-1}} + 1/54*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3*\sin x^4*\cos x*m83^{-1}} + 1/54*\text{Hb}(3,4,5,\text{plext.plext})*F^{-3*\sin x^5*\sqrt{3}*m83^{-1}} + 1/96*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3*\cos x} - 1/216*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3*\sin x*\sqrt{3}} + 1/108*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3*\sin x^2*\cos x} - 1/108*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3*\sin x^4*\cos x} + 1/108*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3*\sin x^6*\cos x} - 1/108*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3*\sin x^8*\cos x}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^2*\cos x + 1/72*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/108*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 1/108*\text{Hb}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} - 1/27*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 11/1296*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + \\
& 5/54*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 7/324*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/54*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - \\
& 1 - 1/54*\text{Hb}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - 1/288*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\cos x + 1/216*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/108*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/72*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/108*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 1/108*\text{Hb}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} - 2/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 4/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + \\
& 56/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - 64/27*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x^6*\cos x*m83^{-1} + 128/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-3}*\sin x^8*\cos x*m83^{-1} + 1/108*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\cos x + 8/81*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 8/9*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 128/81*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin x^6*\cos x - 64/81*\text{Hb}(3,8,8,1,\text{plext.plext})*F^{-3}*\sin x^8*\cos x + 1/48*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 5/144*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + \\
& 1/18*\text{Hb}(4,2,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/96*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\cos x + 5/288*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/36*\text{Hb}(4,2,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 4/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 55/324*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 2/9*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + \\
& 37/81*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 10/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - 2/9*\text{Hb}(4,5,8,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - 19/72*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\cos x + 17/108*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 7/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 17/54*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 5/27*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 1/9*\text{Hb}(4,5,8,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} + 1/48*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 5/144*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 1/18*\text{Hb}(5,1,6,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/96*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\cos x + 5/288*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/36*\text{Hb}(5,1,6,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/48*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 5/144*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 1/18*\text{Hb}(6,1,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 5/96*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\cos x - 5/288*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/36*\text{Hb}(6,1,5,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 2/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 67/324*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 2/9*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 37/81*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 10/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 2/9*\text{Hb}(6,7,8,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} - 79/72*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\cos x - 19/36*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 7/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 17/54*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 5/27*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 1/9*\text{Hb}(6,7,8,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} - 1/48*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 5/144*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 1/18*\text{Hb}(7,2,4,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 5/96*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\cos x - 5/288*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/36*\text{Hb}(7,2,4,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/12*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 1/9*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - 1/9*\text{Hb}(8,1,2,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 1/24*\text{Hb}(8,1,2,1,\text{plext.plext})*F^{-3}*\cos x - 1/18*\text{Hb}(8,1,2,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/18*\text{Hb}(8,1,2,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^4*\cos x + 1/24*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 1/16*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 1/18*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} - \\
& 5/36*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/18*\text{Hb}(8,4,5,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 1/18*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} \\
& 1 + 5/96*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\cos x - 7/144*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/36*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 7/72*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/36*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 1/36*\text{Hb}(8,4,5,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} + 1/24*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 1/16*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 1/18*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& + 5/36*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} + 1/18*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} - 1/18*\text{Hb}(8,6,7,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} \\
& 1 + 11/32*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\cos x + 25/144*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/36*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 7/72*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} - 1/36*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 1/36*\text{Hb}(8,6,7,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} - 2/81*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 2/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 28/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& 1 - 88/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 64/81*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x^6*\cos x*m83^{-1} - 128/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-3}*\sin x^8*\cos x*m83^{-1} \\
& 1 + 28/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\cos x - 16/81*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 32/81*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x - 128/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^6*\cos x + 64/243*\text{Hb}(8,8,8,1,\text{plext.plext})*F^{-3}*\sin x^8*\cos x + \\
& 1/4*\text{H21b}(1,5,6,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 1/12*\text{H21b}(1,5,6,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 1/6*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& 1 + 5/16*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-3}*\cos x + 1/12*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/12*\text{H21b}(1,5,6,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 1/4*\text{H21b}(2,4,7,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 1/12*\text{H21b}(2,4,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + \\
& 1/6*\text{H21b}(2,4,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 5/16*\text{H21b}(2,4,7,1,\text{plext.plext})*F^{-3}*\cos x + 1/12*\text{H21b}(2,4,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/12*\text{H21b}(2,4,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/4*\text{H21b}(3,1,2,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} - 1/6*\text{H21b}(3,1,2,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} - 2/3*\text{H21b}(3,1,2,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& + 1/3*\text{H21b}(3,1,2,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 1/8*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3}*\cos x + 1/12*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} + 1/3*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 1/6*\text{H21b}(3,1,2,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 3/8*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 1/16*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + \\
& 1/3*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} + 1/4*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/6*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} \\
& 1 - 1/6*\text{H21b}(3,4,5,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} + 7/32*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\cos x + 7/48*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/6*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x - 5/24*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} + \\
& 1/12*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^4*\cos x + 1/12*\text{H21b}(3,4,5,1,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3} - 1/8*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\cos x*m83^{-1} + 5/48*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3}*m83^{-1} + 1/3*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^2*\cos x*m83^{-1} \\
& 1 - 1/4*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3}*m83^{-1} - 1/6*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^4*\cos x*m83^{-1} + 1/6*\text{H21b}(3,6,7,\text{plext.plext})*F^{-3}*\sin x^5*\sqrt{3}*m83^{-1} \\
& 1 + 3/32*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3}*\cos x - 5/48*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x*\sqrt{3} - 1/6*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^2*\cos x + 5/24*\text{H21b}(3,6,7,1,\text{plext.plext})*F^{-3}*\sin x^3*\sqrt{3} +
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin^3*\sqrt{3} + 1/12*H21b(3,6,7,1,plext.plext)*F^{-3}*\sin^4*\cos - \\
& 1/12*H21b(3,6,7,1,plext.plext)*F^{-3}*\sin^5*\sqrt{3} - 1/4*H21b(4,2,7,plext.plext)*F^{-3}*\cos^3*m83^{-1} - \\
& 1/8*H21b(4,2,7,plext.plext)*F^{-3}*\sin*\sqrt{3}*m83^{-1} - \\
& 1/12*H21b(4,2,7,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-1} + 1/12*H21b(4,2,7,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + \\
& 1/4*H21b(4,2,7,1,plext.plext)*F^{-3}*\cos + \\
& 1/8*H21b(4,2,7,1,plext.plext)*F^{-3}*\sin*\sqrt{3} + 1/24*H21b(4,2,7,1,plext.plext)*F^{-3}*\sin^2*\cos - \\
& 1/24*H21b(4,2,7,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} - 1/4*H21b(5,1,6,plext.plext)*F^{-3}*\cos^3*m83^{-1} - \\
& 1/8*H21b(5,1,6,plext.plext)*F^{-3}*\sin*\sqrt{3}*m83^{-1} - \\
& 1/12*H21b(5,1,6,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-1} + 1/12*H21b(5,1,6,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + \\
& 1/4*H21b(5,1,6,1,plext.plext)*F^{-3}*\cos + \\
& 1/8*H21b(5,1,6,1,plext.plext)*F^{-3}*\sin*\sqrt{3} + 1/24*H21b(5,1,6,1,plext.plext)*F^{-3}*\sin^2*\cos - \\
& 1/24*H21b(5,1,6,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} + \\
& 1/24*H21b(6,1,5,plext.plext)*F^{-3}*\sin*\sqrt{3}*m83^{-1} - 1/12*H21b(6,1,5,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-1} - \\
& 1/12*H21b(6,1,5,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - 1/8*H21b(6,1,5,1,plext.plext)*F^{-3}*\cos - \\
& 1/12*H21b(6,1,5,1,plext.plext)*F^{-3}*\sin*\sqrt{3} + 1/24*H21b(6,1,5,1,plext.plext)*F^{-3}*\sin^2*\cos + \\
& 1/24*H21b(6,1,5,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} + 1/24*H21b(7,2,4,plext.plext)*F^{-3}*\sin*\sqrt{3}*m83^{-1} - \\
& 1/12*H21b(7,2,4,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-1} - 1/12*H21b(7,2,4,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - \\
& 1/8*H21b(7,2,4,1,plext.plext)*F^{-3}*\cos - 1/12*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin*\sqrt{3} + \\
& 1/24*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin^2*\cos + 1/24*H21b(7,2,4,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} - \\
& 1/4*H21b(8,1,2,plext.plext)*F^{-3}*\cos*m83^{-1} + 1/3*H21b(8,1,2,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-1} - \\
& 1/3*H21b(8,1,2,plext.plext)*F^{-3}*\sin^4*\cos*m83^{-1} + 1/8*H21b(8,1,2,1,plext.plext)*F^{-3}*\cos - \\
& 1/6*H21b(8,1,2,1,plext.plext)*F^{-3}*\sin^2*\cos + 1/6*H21b(8,1,2,1,plext.plext)*F^{-3}*\sin^4*\cos + \\
& 1/8*H21b(8,4,5,plext.plext)*F^{-3}*\cos^3*m83^{-1} + 3/16*H21b(8,4,5,plext.plext)*F^{-3}*\sin*\sqrt{3}*m83^{-1} - \\
& 1/6*H21b(8,4,5,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-1} - 5/12*H21b(8,4,5,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} + \\
& 1/6*H21b(8,4,5,plext.plext)*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} + 5/32*H21b(8,4,5,1,plext.plext)*F^{-3}*\cos - \\
& 7/48*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin*\sqrt{3} + 1/12*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin^2*\cos + \\
& 7/24*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} - \\
& 1/12*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin^4*\cos - 1/12*H21b(8,4,5,1,plext.plext)*F^{-3}*\sin^5*\sqrt{3} + \\
& 1/8*H21b(8,6,7,plext.plext)*F^{-3}*\cos^3*m83^{-1} - 3/16*H21b(8,6,7,plext.plext)*F^{-3}*\sin*\sqrt{3}*m83^{-1} - \\
& 1/6*H21b(8,6,7,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-1} + 5/12*H21b(8,6,7,plext.plext)*F^{-3}*\sin^3*\sqrt{3}*m83^{-1} - \\
& 1/6*H21b(8,6,7,plext.plext)*F^{-3}*\sin^4*\cos*m83^{-1} + 1/6*H21b(8,6,7,plext.plext)*F^{-3}*\sin^5*\sqrt{3}*m83^{-1} - \\
& 1/33*H21b(8,6,7,1,plext.plext)*F^{-3}*\cos + 25/48*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin*\sqrt{3} + \\
& 1/12*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin^2*\cos - 7/24*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin^3*\sqrt{3} - \\
& 1/12*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin^4*\cos + \\
& 1/12*H21b(8,6,7,1,plext.plext)*F^{-3}*\sin^5*\sqrt{3} + 1/9*HH1b(1,2,3,plext.plext)*F^{-3}*\cos^3*m83^{-1} - \\
& 5/27*HH1b(1,2,3,plext.plext)*F^{-3}*\sin*\sqrt{3}*m83^{-1} - \\
& 34/27*HH1b(1,2,3,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-1} + 8/9*HH1b(1,2,3,plext.plext)*F^{-3}*\sin^4*\cos*m83^{-1} + \\
& 1/9*HH1b(1,2,3,1,plext.plext)*F^{-3}*\sin*\sqrt{3} + \\
& 2/3*HH1b(1,2,3,1,plext.plext)*F^{-3}*\sin^2*\cos - 4/9*HH1b(1,2,3,1,plext.plext)*F^{-3}*\sin^4*\cos - \\
& 5/9*HH1b(1,2,8,plext.plext)*F^{-3}*\cos^3*m83^{-1} - 1/27*HH1b(1,2,8,plext.plext)*F^{-3}*\sin*\sqrt{3}*m83^{-1} + \\
& 22/27*HH1b(1,2,8,plext.plext)*F^{-3}*\sin^2*\cos*m83^{-1} - 8/9*HH1b(1,2,8,plext.plext)*F^{-3}*\sin^4*\cos*m83^{-1} + \\
& 1/3*HH1b(1,2,8,1,plext.plext)*F^{-3}*\cos^3*m83^{-1} + 1/3*HH1b(1,2,8,1,plext.plext)*F^{-3}*\sin^4*\cos*m83^{-1} + \\
& 1/3*HH1b(1,2,8,1,plext.plext)*F^{-3}*\sin^5*\sqrt{3}*m83^{-1}
\end{aligned}$$

$$\begin{aligned}
& 3^*\cos x - 2/9^*\text{HH1b}(5,1,6,1,\text{plext.plext})^*F^{-3^*}\sin x^*\sqrt{3} + 2/9^*\text{HH1b}(5,1,6,1,\text{plext.plext})^*F^{-3^*}\sin x^3^*\sqrt{3} \\
& + 2/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-3^*}\cos x^*\text{m83}^{-1} + 2/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-3^*}\sin x^*\sqrt{3}^*\text{m83}^{-1} \\
& + 13/27^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-3^*}\sin x^2^*\cos x^*\text{m83}^{-1} - 11/27^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-3^*}\sin x^3^*\sqrt{3}^*\text{m83}^{-1} \\
& - 4/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-3^*}\sin x^4^*\cos x^*\text{m83}^{-1} + 4/27^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-3^*}\sin x^5^*\sqrt{3}^*\text{m83}^{-1} \\
& + 4/9^*\text{HH1b}(5,4,8,1,\text{plext.plext})^*F^{-3^*}\cos x - 17/108^*\text{HH1b}(5,4,8,1,\text{plext.plext})^*F^{-3^*}\sin x^*\sqrt{3} \\
& - 4/9^*\text{HH1b}(5,4,8,1,\text{plext.plext})^*F^{-3^*}\sin x^2^*\cos x + 7/27^*\text{HH1b}(5,4,8,1,\text{plext.plext})^*F^{-3^*}\sin x^3^*\sqrt{3} \\
& + 2/9^*\text{HH1b}(5,4,8,1,\text{plext.plext})^*F^{-3^*}\sin x^4^*\cos x - 2/27^*\text{HH1b}(5,4,8,1,\text{plext.plext})^*F^{-3^*}\sin x^5^*\sqrt{3} \\
& - 5/27^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*}\sin x^*\sqrt{3}^*\text{m83}^{-1} + 13/27^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*}\sin x^2^*\cos x^*\text{m83}^{-1} \\
& + 11/27^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*}\sin x^3^*\sqrt{3}^*\text{m83}^{-1} - 4/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*}\sin x^4^*\cos x^*\text{m83}^{-1} \\
& - 4/27^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-3^*}\sin x^5^*\sqrt{3}^*\text{m83}^{-1} + 14/9^*\text{HH1b}(6,7,8,1,\text{plext.plext})^*F^{-3^*}\cos x \\
& + 65/108^*\text{HH1b}(6,7,8,1,\text{plext.plext})^*F^{-3^*}\sin x^*\sqrt{3} - 4/9^*\text{HH1b}(6,7,8,1,\text{plext.plext})^*F^{-3^*}\sin x^2^*\cos x \\
& - 7/27^*\text{HH1b}(6,7,8,1,\text{plext.plext})^*F^{-3^*}\sin x^3^*\sqrt{3} + 2/9^*\text{HH1b}(6,7,8,1,\text{plext.plext})^*F^{-3^*}\sin x^4^*\cos x \\
& + 2/27^*\text{HH1b}(6,7,8,1,\text{plext.plext})^*F^{-3^*}\sin x^5^*\sqrt{3} - 5/27^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*}\sin x^*\sqrt{3}^*\text{m83}^{-1} \\
& + 13/27^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*}\sin x^2^*\cos x^*\text{m83}^{-1} + 11/27^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*}\sin x^3^*\sqrt{3}^*\text{m83}^{-1} \\
& - 4/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*}\sin x^4^*\cos x^*\text{m83}^{-1} - 4/27^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-3^*}\sin x^5^*\sqrt{3}^*\text{m83}^{-1} \\
& + 14/9^*\text{HH1b}(7,6,8,1,\text{plext.plext})^*F^{-3^*}\cos x + 65/108^*\text{HH1b}(7,6,8,1,\text{plext.plext})^*F^{-3^*}\sin x^*\sqrt{3} - 4/9^*\text{HH1b}(7,6,8,1,\text{plext.plext})^*F^{-3^*}\sin x^2^*\cos x \\
& - 7/27^*\text{HH1b}(7,6,8,1,\text{plext.plext})^*F^{-3^*}\sin x^3^*\sqrt{3} + 2/9^*\text{HH1b}(7,6,8,1,\text{plext.plext})^*F^{-3^*}\sin x^4^*\cos x \\
& + 2/27^*\text{HH1b}(7,6,8,1,\text{plext.plext})^*F^{-3^*}\sin x^5^*\sqrt{3}) \\
& + \text{mud}^2^*\text{mkp2} * (+ 1253/331776^*F^{-3^*}\cos x^*\pi^{-4^*}\text{m83}^{-1} + 293/497664^*F^{-3^*}\cos x^*\pi^{-2^*}\text{m83}^{-1} \\
& + 5/9^*F^{-3^*}\cos x^*\pi^{-2^*}\text{L8r}^*\text{m83}^{-1} + 2/9^*F^{-3^*}\cos x^*\pi^{-2^*}\text{L7r}^*\text{m83}^{-1} + 5/9^*F^{-3^*}\cos x^*\pi^{-2^*}\text{L6r}^*\text{m83}^{-1} \\
& - 13/54^*F^{-3^*}\cos x^*\pi^{-2^*}\text{L5r}^*\text{m83}^{-1} - 5/18^*F^{-3^*}\cos x^*\pi^{-2^*}\text{L4r}^*\text{m83}^{-1} - 1/144^*F^{-3^*}\cos x^*\pi^{-2^*}\text{L3r}^*\text{m83}^{-1} \\
& - 128/9^*F^{-3^*}\cos x^*\text{L5r}^*\text{L8r}^*\text{m83}^{-1} - 128/3^*F^{-3^*}\cos x^*\text{L5r}^*\text{L7r}^*\text{m83}^{-1} - 128/3^*F^{-3^*}\cos x^*\text{L4r}^*\text{L8r}^*\text{m83}^{-1} \\
& - 128^*F^{-3^*}\cos x^*\text{L4r}^*\text{L7r}^*\text{m83}^{-1} - 128/3^*F^{-3^*}\cos x^*\text{CC33}^*\text{m83}^{-1} - 64/3^*F^{-3^*}\cos x^*\text{CC32}^*\text{m83}^{-1} \\
& - 64/3^*F^{-3^*}\cos x^*\text{CC31}^*\text{m83}^{-1} - 64/3^*F^{-3^*}\cos x^*\text{CC20}^*\text{m83}^{-1} - 32^*F^{-3^*}\cos x^*\text{CC19}^*\text{m83}^{-1} \\
& + 32/3^*F^{-3^*}\cos x^*\text{CC18}^*\text{m83}^{-1} + 32/9^*F^{-3^*}\cos x^*\text{CC17}^*\text{m83}^{-1} + 32/9^*F^{-3^*}\cos x^*\text{CC14}^*\text{m83}^{-1} \\
& - 229/155520^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-4^*}\text{m83}^{-1} - 511/3732480^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2^*}\text{m83}^{-1} - 13/27^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2^*}\text{L8r}^*\text{m83}^{-1} \\
& - 4/27^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2^*}\text{L7r}^*\text{m83}^{-1} - 10/27^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2^*}\text{L6r}^*\text{m83}^{-1} + 35/162^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2^*}\text{L5r}^*\text{m83}^{-1} \\
& + 5/27^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2^*}\text{L4r}^*\text{m83}^{-1} + 1/54^*F^{-3^*}\sin x^*\sqrt{3}^*\pi^{-2^*}\text{L3r}^*\text{m83}^{-1} - 2048/27^*F^{-3^*}\sin x^*\sqrt{3}^*\text{L5r}^*\text{L8r}^*\text{m83}^{-1} \\
& - 2048/9^*F^{-3^*}\sin x^*\sqrt{3}^*\text{L5r}^*\text{L7r}^*\text{m83}^{-1} + 256/9^*F^{-3^*}\sin x^*\sqrt{3}^*\text{L4r}^*\text{L8r}^*\text{m83}^{-1} + 256/3^*F^{-3^*}\sin x^*\sqrt{3}^*\text{L4r}^*\text{L7r}^*\text{m83}^{-1} \\
& + 256/9^*F^{-3^*}\sin x^*\sqrt{3}^*\text{CC33}^*\text{m83}^{-1} + 128/9^*F^{-3^*}\sin x^*\sqrt{3}^*\text{CC32}^*\text{m83}^{-1} + 128/9^*F^{-3^*}\sin x^*\sqrt{3}^*\text{CC31}^*\text{m83}^{-1} \\
& + 128/9^*F^{-3^*}\sin x^*\sqrt{3}^*\text{CC20}^*\text{m83}^{-1} + 64/3^*F^{-3^*}\sin x^*\sqrt{3}^*\text{CC19}^*\text{m83}^{-1} - 256/9^*F^{-3^*}\sin x^*\sqrt{3}^*\text{CC18}^*\text{m83}^{-1} \\
& - 256/27^*F^{-3^*}\sin x^*\sqrt{3}^*\text{CC17}^*\text{m83}^{-1} - 256/27^*F^{-3^*}\sin x^*\sqrt{3}^*\text{CC14}^*\text{m83}^{-1} - 1253/41472^*F^{-3^*}\sin x^2^*\cos x^*\pi^{-4^*}
\end{aligned}$$

$$\begin{aligned}
& 4^*m83^{-1} - 293/62208^*F^{-3^*sinx^2^*cosx^*pi^{-2^*m83^{-1}} - 40/9^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L8r^*m83^{-1}} - 16/9^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L7r^*m83^{-1}} - 40/9^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L6r^*m83^{-1}} + 52/27^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L5r^*m83^{-1}} + 20/9^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L4r^*m83^{-1}} + 1/18^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L3r^*m83^{-1}} + 1024/9^*F^{-3^*sinx^2^*cosx^*L5r^*L8r^*m83^{-1}} + 1024/3^*F^{-3^*sinx^2^*cosx^*L5r^*L7r^*m83^{-1}} + 1024/3^*F^{-3^*sinx^2^*cosx^*L4r^*L8r^*m83^{-1}} + 1024^*F^{-3^*sinx^2^*cosx^*L4r^*L7r^*m83^{-1}} + 1024/3^*F^{-3^*sinx^2^*cosx^*CC33^*m83^{-1}} + 512/3^*F^{-3^*sinx^2^*cosx^*CC32^*m83^{-1}} + 512/3^*F^{-3^*sinx^2^*cosx^*CC31^*m83^{-1}} + 512/3^*F^{-3^*sinx^2^*cosx^*CC20^*m83^{-1}} + 256^*F^{-3^*sinx^2^*cosx^*CC19^*m83^{-1}} - 256/3^*F^{-3^*sinx^2^*cosx^*CC18^*m83^{-1}} - 256/9^*F^{-3^*sinx^2^*cosx^*CC17^*m83^{-1}} - 256/9^*F^{-3^*sinx^2^*cosx^*CC14^*m83^{-1}} + 4/9^*C^*F^{-3^*cosx^*pi^{-2^*L8r^*m83^{-1}} + 4/3^*C^*F^{-3^*cosx^*pi^{-2^*L7r^*m83^{-1}} - 125/62208^*C^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m83^{-1}} - 2/27^*C^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L8r^*m83^{-1}} - 125/62208^*C^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L7r^*m83^{-1}} + 4/9^*C^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L5r^*m83^{-1}} - 32/9^*C^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L4r^*m83^{-1}} + 2/9^*C^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L3r^*m83^{-1}} - 32/3^*C^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L2r^*m83^{-1}} + 23/34560^*C^2^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m83^{-1}} - 11/11520^*C^*ln(3)^*F^{-3^*cosx^*pi^{-4^*m83^{-1}} - 13/25920^*C^*ln(3)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m83^{-1}} + 23/4320^*C^*ln(3)^*F^{-3^*sinx^2^*cosx^*pi^{-4^*m83^{-1}} + 1/216^*C^*ln(3)^*F^{-3^*sinx^4^*cosx^*pi^{-4^*m83^{-1}} + 1/576^*C^*ln(4)^*F^{-3^*cosx^*pi^{-4^*m83^{-1}} - 49/17280^*C^*ln(4)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m83^{-1}} + 1/288^*C^*ln(4)^*F^{-3^*sinx^2^*cosx^*pi^{-4^*m83^{-1}} + 1/288^*C^*ln(4)^*F^{-3^*sinx^3^*sqrt3^*pi^{-4^*m83^{-1}} - 1/384^*C^*ln(6)^*F^{-3^*cosx^*pi^{-4^*m83^{-1}} + 49/34560^*C^*ln(6)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m83^{-1}} + 1/288^*C^*ln(6)^*F^{-3^*sinx^2^*cosx^*pi^{-4^*m83^{-1}} - 1/288^*C^*ln(6)^*F^{-3^*sinx^3^*sqrt3^*pi^{-4^*m83^{-1}} + 13/34560^*C^*ln(8)^*F^{-3^*cosx^*pi^{-4^*m83^{-1}} - 23/12960^*C^*ln(8)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m83^{-1}} - 1/1440^*C^*ln(8)^*F^{-3^*sinx^2^*cosx^*pi^{-4^*m83^{-1}} - 1/216^*C^*ln(8)^*F^{-3^*sinx^4^*cosx^*pi^{-4^*m83^{-1}} + 1/10368^*ln(3)^*F^{-3^*cosx^*pi^{-4^*m83^{-1}} + 23/27^*ln(3)^*F^{-3^*cosx^*pi^{-2^*L8r^*m83^{-1}} + 5/3^*ln(3)^*F^{-3^*cosx^*pi^{-2^*L7r^*m83^{-1}} + 2/9^*ln(3)^*F^{-3^*cosx^*pi^{-2^*L6r^*m83^{-1}} - 2/27^*ln(3)^*F^{-3^*cosx^*pi^{-2^*L5r^*m83^{-1}} - 1/12^*ln(3)^*F^{-3^*cosx^*pi^{-2^*L4r^*m83^{-1}} - 1/2592^*ln(3)^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m83^{-1}} - 4/81^*ln(3)^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L8r^*m83^{-1}} + 4/27^*ln(3)^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L7r^*m83^{-1}} - 8/27^*ln(3)^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L6r^*m83^{-1}} + 2/27^*ln(3)^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L5r^*m83^{-1}} + 1/9^*ln(3)^*F^{-3^*sinx^*sqrt3^*pi^{-2^*L4r^*m83^{-1}} + 1/1296^*ln(3)^*F^{-3^*sinx^2^*cosx^*pi^{-4^*m83^{-1}} - 88/27^*ln(3)^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L8r^*m83^{-1}} - 64/9^*ln(3)^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L7r^*m83^{-1}} + 2/27^*ln(3)^*F^{-3^*sinx^2^*cosx^*pi^{-2^*L5r^*m83^{-1}} - 1/324^*ln(3)^*F^{-3^*sinx^4^*cosx^*pi^{-4^*m83^{-1}} - 272/27^*ln(3)^*F^{-3^*sinx^4^*cosx^*pi^{-2^*L8r^*m83^{-1}} - 64/3^*ln(3)^*F^{-3^*sinx^4^*cosx^*pi^{-2^*L7r^*m83^{-1}} - 32/9^*ln(3)^*F^{-3^*sinx^4^*cosx^*pi^{-2^*L6r^*m83^{-1}} + 28/27^*ln(3)^*F^{-3^*sinx^4^*cosx^*pi^{-2^*L5r^*m83^{-1}} + 4/3^*ln(3)^*F^{-3^*sinx^4^*cosx^*pi^{-2^*L4r^*m83^{-1}} + 128/27^*ln(3)^*F^{-3^*sinx^6^*cosx^*pi^{-2^*L8r^*m83^{-1}} + 128/9^*ln(3)^*F^{-3^*sinx^6^*cosx^*pi^{-2^*L7r^*m83^{-1}} - 11/27648^*ln(3)^2^*F^{-3^*cosx^*pi^{-4^*m83^{-1}} + 19/124416^*ln(3)^2^*F^{-3^*sinx^*sqrt3^*pi^{-4^*m83^{-1}} + 47/41472^*ln(3)^2^*F^{-3^*sinx^2^*cosx^*pi^{-4^*m83^{-1}} + 7/2592^*ln(3)^2^*F^{-3^*sinx^4^*cosx^*pi^{-4^*m83^{-1}} + 17/2592^*ln(3)^2^*F^{-3^*sinx^6^*cosx^*pi^{-4^*m83^{-1}} - 1/162^*ln(3)^2^*F^{-3^*sinx^8^*cosx^*pi^{-4^*m83^{-1}}
\end{aligned}$$

$$\begin{aligned}
& + 1021/829440*\ln(3)*\ln(4)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} - 139/103680*\ln(3)*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} + 1/11520*\ln(3)*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} - 29/34560*\ln(3)*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} + 23/2592*\ln(3)*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1}} - 1/216*\ln(3)*\ln(4)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-1}} - 1/144*\ln(3)*\ln(4)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1}} - 739/829440*\ln(3)*\ln(6)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} + 43/51840*\ln(3)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} + 1/11520*\ln(3)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + 29/34560*\ln(3)*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} - 23/2592*\ln(3)*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1}} - 1/216*\ln(3)*\ln(6)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-1}} + 1/144*\ln(3)*\ln(6)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1}} - 1/41472*\ln(3)*\ln(8)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} - 7/62208*\ln(3)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} + 1/2304*\ln(3)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + 1/162*\ln(3)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} - 25/1296*\ln(3)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-1}} + 1/81*\ln(3)*\ln(8)*F^{-3*\sin x^8*\cos x*\pi^{-4}*m83^{-1}} + 83/55296*\ln(4)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} + 23/9*\ln(4)*F^{-3*\cos x*\pi^{-2}*L8r*m83^{-1}} + 11/2*\ln(4)*F^{-3*\cos x*\pi^{-2}*L7r*m83^{-1}} - 1/3*\ln(4)*F^{-3*\cos x*\pi^{-2}*L6r*m83^{-1}} - 13/24*\ln(4)*F^{-3*\cos x*\pi^{-2}*L5r*m83^{-1}} + 1/8*\ln(4)*F^{-3*\cos x*\pi^{-2}*L4r*m83^{-1}} + 1/48*\ln(4)*F^{-3*\cos x*\pi^{-2}*L3r*m83^{-1}} - 367/165888*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} - 17/18*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-1}} - 10/3*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1}} + 5/3*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-1}} + 37/216*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1}} - 5/8*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-1}} - 13/144*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L3r*m83^{-1}} - 1/2304*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} - 68/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1}} - 12*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1}} - 8/3*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1}} + 13/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1}} + \ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1}} + 1/6*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L3r*m83^{-1}} + 89/20736*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} - 68/27*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-1}} - 44/9*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-1}} - 8/3*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-1}} + 1/9*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-1}} + \ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-1}} + 1/6*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L3r*m83^{-1}} - 1/648*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1}} + 80/27*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-1}} + 80/9*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-1}} - 7/13824*\ln(4)^2*F^{-3*\cos x*\pi^{-4}*m83^{-1}} + 13/20736*\ln(4)^2*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} - 23/6912*\ln(4)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + 17/6912*\ln(4)^2*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} + 5/576*\ln(4)^2*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} - 5/1728*\ln(4)^2*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1}} + 37/27648*\ln(4)*\ln(6)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} - 739/414720*\ln(4)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} + 17/3456*\ln(4)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} - 5/288*\ln(4)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-1}} + 239/829440*\ln(4)*\ln(8)*F^{-3*\cos x*\pi^{-4}*m83^{-1}} - 157/207360*\ln(4)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1}} - 223/34560*\ln(4)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-1}} + 607/103680*\ln(4)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1}} - 11/864*\ln(4)*\ln(8)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1}} + 1/216*\ln(4)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-1}} + 1/144*\ln(4)*\ln(8)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1}} - 77/55296*\ln(6)*F^{-3*\cos x*\pi^{-4}*m83^{-1}}
\end{aligned}$$

$$\begin{aligned}
& 1 - 2/3*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L8r*m83^{-1} - 5/2*\ln(6)*F^{-3}*\cos x*\pi^{-2} \\
& *L7r*m83^{-1} + \ln(6)*F^{-3}*\cos x*\pi^{-2}*L6r*m83^{-1} + 13/72*\ln(6)*F^{-3} \\
& *3*\cos x*\pi^{-2}*L5r*m83^{-1} - 3/8*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L4r*m83^{-1} - \\
& 1/16*\ln(6)*F^{-3}*\cos x*\pi^{-2}*L3r*m83^{-1} + 463/165888*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& *m83^{-1} + 7/54*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} + 3*\ln(6)*F^{-3} \\
& *3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} - 19/9*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} \\
& 1 + 7/24*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} + 19/24*\ln(6)*F^{-3} \\
& *3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} + 29/144*\ln(6)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2} \\
& *L3r*m83^{-1} - 1/2304*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 68/9*\ln(6)*F^{-3} \\
& *3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1} - 12*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1} \\
& 1 - 8/3*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1} + 13/9*\ln(6)*F^{-3} \\
& *3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1} + \ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1} \\
& 1 + 1/6*\ln(6)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r*m83^{-1} - 89/20736*\ln(6)*F^{-3} \\
& *3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 68/27*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} \\
& 1 + 44/9*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} + 8/3*\ln(6)*F^{-3} \\
& *3*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} - 1/9*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2} \\
& *L5r*m83^{-1} - \ln(6)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} - 1/6*\ln(6)*F^{-3} \\
& *3*\sin x^3*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} + 1/648*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4} \\
& *m83^{-1} - 80/27*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} - 80/9*\ln(6)*F^{-3} \\
& *3*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} - 17/27648*\ln(6)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} \\
& 1 + 41/414720*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 23/6912*\ln(6)^2*F^{-3} \\
& *3*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 17/6912*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& *m83^{-1} + 5/576*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 5/1728*\ln(6)^2*F^{-3} \\
& *3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} + 799/829440*\ln(6)*\ln(8)*F^{-3}*\cos x*\pi^{-4} \\
& *m83^{-1} - 19/41472*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 223/34560*\ln(6)*\ln(8)*F^{-3} \\
& *3*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 607/103680*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4} \\
& *m83^{-1} + 11/864*\ln(6)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/216*\ln(6)*\ln(8)*F^{-3} \\
& *3*\sin x^6*\cos x*\pi^{-4}*m83^{-1} - 1/144*\ln(6)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4} \\
& *m83^{-1} + 5/20736*\ln(8)*F^{-3}*\cos x*\pi^{-4}*m83^{-1} + 5/9*\ln(8)*F^{-3} \\
& *3*\cos x*\pi^{-2}*L8r*m83^{-1} + 7/9*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L7r*m83^{-1} + \\
& 2/9*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L6r*m83^{-1} - 1/6*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L5r*m83^{-1} \\
& 1 - 1/12*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L4r*m83^{-1} - 1/7776*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& *m83^{-1} - 8/9*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} - 16/9*\ln(8)*F^{-3} \\
& *3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} + 22/81*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} \\
& 1 - 1/288*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 8*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2} \\
& *L8r*m83^{-1} - 112/9*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1} - 32/9*\ln(8)*F^{-3} \\
& *3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1} + 50/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2} \\
& *L5r*m83^{-1} + 4/3*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1} + 1/324*\ln(8)*F^{-3} \\
& *3*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 272/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-1} \\
& 1 + 64/3*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-1} + 32/9*\ln(8)*F^{-3} \\
& *3*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-1} - 28/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2} \\
& *L5r*m83^{-1} - 4/3*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-1} - 128/27*\ln(8)*F^{-3} \\
& *3*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-1} - 128/9*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2} \\
& *L7r*m83^{-1} - 17/82944*\ln(8)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} + 47/124416*\ln(8)^2*F^{-3} \\
& *3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 143/41472*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& *m83^{-1} - 23/2592*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 11/864*\ln(8)^2*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^6 * \cos x * \pi^4 * m83^{-1} - 1/162 * \ln(8)^2 * F^{-3} * \sin x^8 * \cos x * \pi^4 * m83^{-1} \\
& + 77/276480 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \cos x * \pi^4 - 1/4608 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 \\
& - 1/2160 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 - 1/1080 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^4 * \cos x * \pi^4 \\
& + 29/184320 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 - 7/15360 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 \\
& - 1/3072 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 + 5/36864 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \cos x * \pi^4 \\
& + 13/138240 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 - 41/46080 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 \\
& - 1/3072 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 + 137/61440 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \cos x * \pi^4 \\
& + 31/92160 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 - 7/15360 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 \\
& + 1/3072 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 + 109/46080 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \cos x * \pi^4 \\
& + 151/552960 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 - 41/46080 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 \\
& + 1/3072 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 + 421/138240 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \cos x * \pi^4 \\
& + 103/207360 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 - 1/720 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 \\
& + 1/1080 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}^2 * \text{mkp}^2 * (- 5/3456 * F^{-3} * \cos x * \pi^4 * m83^{-2} - 5/20736 * F^{-3} * \cos x * \pi^2 * m83^{-2} \\
& + 8704/27 * F^{-3} * \cos x * L8r^2 * m83^{-2} + 5120/3 * F^{-3} * \cos x * L7r * L8r * m83^{-2} + 6656/3 * F^{-3} * \cos x * L7r^2 * m83^{-2} \\
& - 1024/9 * F^{-3} * \cos x * L6r * L8r * m83^{-2} - 1024/3 * F^{-3} * \cos x * L6r * L7r * m83^{-2} + 2048/27 * F^{-3} * \cos x * L5r * L8r * m83^{-2} \\
& + 2048/9 * F^{-3} * \cos x * L5r * L7r * m83^{-2} + 512/9 * F^{-3} * \cos x * L4r * L8r * m83^{-2} + 512/3 * F^{-3} * \cos x * L4r * L7r * m83^{-2} \\
& + 5/1152 * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-2} + 5/6912 * F^{-3} * \sin x * \sqrt{3} * \pi^2 * m83^{-2} + 2048/27 * F^{-3} * \sin x * \sqrt{3} * L8r^2 * m83^{-2} \\
& + 4096/3 * F^{-3} * \sin x * \sqrt{3} * L7r * L8r * m83^{-2} + 10240/3 * F^{-3} * \sin x * \sqrt{3} * L7r^2 * m83^{-2} - 2048/9 * F^{-3} * \sin x * \sqrt{3} * L6r * L8r * m83^{-2} \\
& - 2048/3 * F^{-3} * \sin x * \sqrt{3} * L6r * L7r * m83^{-2} - 2048/27 * F^{-3} * \sin x * \sqrt{3} * L5r * L8r * m83^{-2} - 2048/9 * F^{-3} * \sin x * \sqrt{3} * L5r * L7r * m83^{-2} \\
& - 2048/9 * F^{-3} * \sin x * \sqrt{3} * L4r * L8r * m83^{-2} - 2048/3 * F^{-3} * \sin x * \sqrt{3} * L4r * L7r * m83^{-2} - 114688/27 * F^{-3} * \sin^2 * \cos x * L8r^2 * m83^{-2} \\
& - 81920/3 * F^{-3} * \sin^2 * \cos x * L7r * L8r * m83^{-2} - 131072/3 * F^{-3} * \sin^2 * \cos x * L7r^2 * m83^{-2} + 16384/9 * F^{-3} * \sin^2 * \cos x * L6r * L8r * m83^{-2} \\
& + 16384/3 * F^{-3} * \sin^2 * \cos x * L6r * L7r * m83^{-2} - 8192/27 * F^{-3} * \sin^2 * \cos x * L5r * L8r * m83^{-2} - 8192/9 * F^{-3} * \sin^2 * \cos x * L5r * L7r * m83^{-2} \\
& - 8192/9 * F^{-3} * \sin^2 * \cos x * L4r * L8r * m83^{-2} - 8192/3 * F^{-3} * \sin^2 * \cos x * L4r * L7r * m83^{-2} + 65536/9 * F^{-3} * \sin^4 * \cos x * L8r^2 * m83^{-2} \\
& + 131072/3 * F^{-3} * \sin^4 * \cos x * L7r * L8r * m83^{-2} - 8/9 * C * F^{-3} * \cos x * \pi^2 * L8r * m83^{-2} - 8/3 * C * F^{-3} * \cos x * \pi^2 * L7r * m83^{-2} \\
& + 8/3 * C * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L7r * m83^{-2} + 1/5184 * C * \ln(3) * F^{-3} * \cos x * \pi^4 * m83^{-2} - 5/2592 * C * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-2} \\
& + 1/162 * C * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-2} + 1/576 * C * \ln(6) * F^{-3} * \cos x * \pi^4 * m83^{-2} - 1/192 * C * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-2} \\
& + 5/5184 * C * \ln(8) * F^{-3} * \cos x * \pi^4 * m83^{-2} - 1/648 * C * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-2} - 1/162 * C * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-2} \\
& - 52/81 * \ln(3) * F^{-3} * \cos x * \pi^2 * L8r * m83^{-2} - 52/27 * \ln(3) * F^{-3} * \cos x * \pi^2 * L7r * m83^{-2} + 4/27 * \ln(3) * F^{-3} * \cos x * \pi^2 * L6r * m83^{-2} \\
& - 4/81 * \ln(3) * F^{-3} * \cos x * \pi^2 * L5r * m83^{-2} + 64/81 * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L8r * m83^{-2} + 16/9 * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L7r * m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-2} + 8/81*\ln(3)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-} \\
& 2 + 4/27*\ln(3)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-2} + 160/81*\ln(3)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-2} + 224/27*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-} \\
& 2*\text{L7r}^*m83^{\wedge-2} - 32/27*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-2} - 16/27*\ln(3)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-2} + 320/27*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-} \\
& 2*\text{L8r}^*m83^{\wedge-2} + 1024/27*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-2} \\
& - 64/27*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-2} + 32/81*\ln(3)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-2} + 32/27*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-} \\
& 2*\text{L4r}^*m83^{\wedge-2} - 512/27*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-2} - 512/9*\ln(3)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-2} + 1/5184*\ln(3)^{\wedge 2}*\text{F}^{\wedge-3}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} \\
& - 1/1728*\ln(3)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + 1/1296*\ln(3)^{\wedge 2}*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 1/972*\ln(3)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} \\
& 2 - 2/243*\ln(3)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + 1/81*\ln(3)^{\wedge 2}*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 8}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 1/864*\ln(3)^*\ln(4)^*\text{F}^{\wedge-3}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + \\
& 1/648*\ln(3)^*\ln(4)^*\text{F}^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 7/2592*\ln(3)^*\ln(4)^*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + 37/7776*\ln(3)^*\ln(4)^*\text{F}^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 4*\text{m83}^{\wedge-2} - 1/72*\ln(3)^*\ln(4)^*\text{F}^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 47/1944*\ln(3)^*\ln(4)^*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + 1/54*\ln(3)^*\ln(4)^*\text{F}^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-} \\
& 4*\text{m83}^{\wedge-2} + 1/54*\ln(3)^*\ln(4)^*\text{F}^{\wedge-3}*\sin x^{\wedge 7}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + 13/5184*\ln(3)^*\ln(6)^*\text{F}^{\wedge-} \\
& 3^*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 5/1728*\ln(3)^*\ln(6)^*\text{F}^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - \\
& 7/2592*\ln(3)^*\ln(6)^*\text{F}^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 37/7776*\ln(3)^*\ln(6)^*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 1/72*\ln(3)^*\ln(6)^*\text{F}^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-} \\
& 4*\text{m83}^{\wedge-2} + 47/1944*\ln(3)^*\ln(6)^*\text{F}^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + \\
& 1/54*\ln(3)^*\ln(6)^*\text{F}^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 1/54*\ln(3)^*\ln(6)^*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 7}*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + 1/2592*\ln(3)^*\ln(8)^*\text{F}^{\wedge-3}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} \\
& + 1/7776*\ln(3)^*\ln(8)^*\text{F}^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 7/1944*\ln(3)^*\ln(8)^*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 1/81*\ln(3)^*\ln(8)^*\text{F}^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-} \\
& 4*\text{m83}^{\wedge-2} + 10/243*\ln(3)^*\ln(8)^*\text{F}^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} - 2/81*\ln(3)^*\ln(8)^*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 8}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + 41/27*\ln(4)^*\text{F}^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-2} \\
& + 43/9*\ln(4)^*\text{F}^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-2} - 5/9*\ln(4)^*\text{F}^{\wedge-3}*\cos x^*\pi^{\wedge-} \\
& 2*\text{L6r}^*m83^{\wedge-2} + 4/27*\ln(4)^*\text{F}^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-2} - 1/18*\ln(4)^*\text{F}^{\wedge-} \\
& 3^*\cos x^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-2} - 5*\ln(4)^*\text{F}^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-2} \\
& - 437/27*\ln(4)^*\text{F}^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-2} + 31/27*\ln(4)^*\text{F}^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-2} - 5/27*\ln(4)^*\text{F}^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-} \\
& 2 - 11/18*\ln(4)^*\text{F}^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-2} + 272/27*\ln(4)^*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-2} + 32*\ln(4)^*\text{F}^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-} \\
& 2 - 16/9*\ln(4)^*\text{F}^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-2} + 8/27*\ln(4)^*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-2} + 8/9*\ln(4)^*\text{F}^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-} \\
& 2*\text{L4r}^*m83^{\wedge-2} + 1456/81*\ln(4)^*\text{F}^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-2} \\
& + 1504/27*\ln(4)^*\text{F}^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-2} - 16/9*\ln(4)^*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-2} + 8/27*\ln(4)^*\text{F}^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-} \\
& 2*\text{L5r}^*m83^{\wedge-2} + 8/9*\ln(4)^*\text{F}^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-2} - 128/9*\ln(4)^*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-2} - 128/3*\ln(4)^*\text{F}^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-} \\
& 2*\text{L7r}^*m83^{\wedge-2} - 128/9*\ln(4)^*\text{F}^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-2} - 128/3*\ln(4)^*\text{F}^{\wedge-} \\
& 3^*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-2} - 7/1728*\ln(4)^{\wedge 2}*\text{F}^{\wedge-3}*\cos x^*\pi^{\wedge-4}*\text{m83}^{\wedge-} \\
& 2 + 5/864*\ln(4)^{\wedge 2}*\text{F}^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}*\text{m83}^{\wedge-2} + 1/72*\ln(4)^{\wedge 2}*\text{F}^{\wedge-}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^2 * \cos x * \pi^4 * m83^{-2} - 25/1296 * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * m83^{-2} - 1/72 * \ln(4)^2 * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-2} + 1/72 * \ln(4)^2 * F^{-3} * \sin x^5 * \sqrt{3} * \pi^4 * m83^{-2} + 65/13824 * \ln(4) * \ln(6) * F^{-3} * \cos x * \pi^4 * m83^{-2} + 7/13824 * \ln(4) * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-2} - 11/216 * \ln(4) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-2} + 1/18 * \ln(4) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-2} - 1/1728 * \ln(4) * \ln(8) * F^{-3} * \cos x * \pi^4 * m83^{-2} + 139/31104 * \ln(4) * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-2} - 25/2592 * \ln(4) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-2} - 71/2592 * \ln(4) * \ln(8) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * m83^{-2} + 7/216 * \ln(4) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-2} + 83/1944 * \ln(4) * \ln(8) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^4 * m83^{-2} - 1/54 * \ln(4) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^4 * m83^{-2} - 1/54 * \ln(4) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^4 * m83^{-2} - 25/9 * \ln(6) * F^{-3} * \cos x * \pi^2 * L8r * m83^{-2} - 73/9 * \ln(6) * F^{-3} * \cos x * \pi^2 * L7r * m83^{-2} + 7/9 * \ln(6) * F^{-3} * \cos x * \pi^2 * L6r * m83^{-2} - 8/27 * \ln(6) * F^{-3} * \cos x * \pi^2 * L5r * m83^{-2} - 1/18 * \ln(6) * F^{-3} * \cos x * \pi^2 * L4r * m83^{-2} + 115/27 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L8r * m83^{-2} + 329/27 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L7r * m83^{-2} - 19/27 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L6r * m83^{-2} + 1/3 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L5r * m83^{-2} + 19/18 * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L4r * m83^{-2} + 272/27 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L8r * m83^{-2} + 32 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L7r * m83^{-2} - 16/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L6r * m83^{-2} + 8/27 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L5r * m83^{-2} + 8/9 * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L4r * m83^{-2} - 1456/81 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^2 * L8r * m83^{-2} - 1504/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^2 * L7r * m83^{-2} + 16/9 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^2 * L6r * m83^{-2} - 8/27 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^2 * L5r * m83^{-2} - 8/9 * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^2 * L4r * m83^{-2} - 128/9 * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^2 * L8r * m83^{-2} - 128/3 * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^2 * L7r * m83^{-2} + 128/9 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^2 * L8r * m83^{-2} + 128/3 * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^2 * L7r * m83^{-2} + 1/1728 * \ln(6)^2 * F^{-3} * \cos x * \pi^4 * m83^{-2} - 71/13824 * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-2} + 1/72 * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-2} + 25/1296 * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * m83^{-2} - 1/72 * \ln(6)^2 * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-2} - 1/72 * \ln(6)^2 * F^{-3} * \sin x^5 * \sqrt{3} * \pi^4 * m83^{-2} + 1/1296 * \ln(6) * \ln(8) * F^{-3} * \cos x * \pi^4 * m83^{-2} - 73/31104 * \ln(6) * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^4 * m83^{-2} - 25/2592 * \ln(6) * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^4 * m83^{-2} + 71/2592 * \ln(6) * \ln(8) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^4 * m83^{-2} + 7/216 * \ln(6) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^4 * m83^{-2} - 83/1944 * \ln(6) * \ln(8) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^4 * m83^{-2} - 1/54 * \ln(6) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^4 * m83^{-2} + 1/54 * \ln(6) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^4 * m83^{-2} - 4/27 * \ln(8) * F^{-3} * \cos x * \pi^2 * L8r * m83^{-2} - 4/27 * \ln(8) * F^{-3} * \cos x * \pi^2 * L7r * m83^{-2} - 4/81 * \ln(8) * F^{-3} * \cos x * \pi^2 * L5r * m83^{-2} - 2/27 * \ln(8) * F^{-3} * \cos x * \pi^2 * L4r * m83^{-2} - 8/9 * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L8r * m83^{-2} - 88/27 * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L7r * m83^{-2} + 8/27 * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L6r * m83^{-2} + 4/27 * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^2 * L4r * m83^{-2} + 224/27 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L8r * m83^{-2} + 224/9 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L7r * m83^{-2} - 32/27 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L6r * m83^{-2} + 32/81 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L5r * m83^{-2} + 16/9 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^2 * L4r * m83^{-2} - 832/27 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^2 * L8r * m83^{-2} - 2560/27 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^2 * L7r * m83^{-2} +
\end{aligned}$$

$$\begin{aligned}
& 64/27*\ln(8)*F^{-3}*\sin^4*\cos^*\pi^{-2}*L6r*m83^{-2} - 32/81*\ln(8)*F^{-3}*\sin^4*\cos^*\pi^{-2} \\
& - 2*L5r*m83^{-2} - 32/27*\ln(8)*F^{-3}*\sin^4*\cos^*\pi^{-2}*L4r*m83^{-2} + 512/27*\ln(8)*F^{-3} \\
& - 3*\sin^6*\cos^*\pi^{-2}*L8r*m83^{-2} + 512/9*\ln(8)*F^{-3}*\sin^6*\cos^*\pi^{-2} \\
& - 2*L7r*m83^{-2} - 1/10368*\ln(8)^2*F^{-3}*\cos^*\pi^{-4}*m83^{-2} + 7/15552*\ln(8)^2*F^{-3} \\
& - 3*\sin^*\sqrt{3}*\pi^{-4}*m83^{-2} - 13/3888*\ln(8)^2*F^{-3}*\sin^2*\cos^*\pi^{-4}*m83^{-2} \\
& + 25/972*\ln(8)^2*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-2} - 8/243*\ln(8)^2*F^{-3} \\
& - 3*\sin^6*\cos^*\pi^{-4}*m83^{-2} + 1/81*\ln(8)^2*F^{-3}*\sin^8*\cos^*\pi^{-4}*m83^{-2} \\
& - 1/17280/(mass(3))*\ln(3)^2*F^{-3}*\cos^*\pi^{-4}*m83^{-1} + 89/38880/(mass(3))*\ln(3)^2*F^{-3} \\
& - 3*\sin^*\sqrt{3}*\pi^{-4}*m83^{-1} - 169/19440/(mass(3))*\ln(3)^2*F^{-3}*\sin^2*\cos^*\pi^{-4} \\
& - 4*m83^{-1} - 2/243/(mass(3))*\ln(3)^2*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-1} + \\
& 337/110592/(mass(4))*\ln(4)^2*F^{-3}*\cos^*\pi^{-4}*m83^{-1} - 989/276480/(mass(4))*\ln(4)^2*F^{-3} \\
& - 3*\sin^*\sqrt{3}*\pi^{-4}*m83^{-1} - 61/6912/(mass(4))*\ln(4)^2*F^{-3}*\sin^2*\cos^*\pi^{-4} \\
& - 4*m83^{-1} + 23/6912/(mass(4))*\ln(4)^2*F^{-3}*\sin^3*\sqrt{3}*\pi^{-4}*m83^{-1} + \\
& 361/110592/(mass(5))*\ln(4)^2*F^{-3}*\cos^*\pi^{-4}*m83^{-1} - 343/92160/(mass(5))*\ln(4)^2*F^{-3} \\
& - 3*\sin^*\sqrt{3}*\pi^{-4}*m83^{-1} - 61/6912/(mass(5))*\ln(4)^2*F^{-3}*\sin^2*\cos^*\pi^{-4} \\
& - 4*m83^{-1} + 23/6912/(mass(5))*\ln(4)^2*F^{-3}*\sin^3*\sqrt{3}*\pi^{-4}*m83^{-1} - \\
& 233/110592/(mass(6))*\ln(6)^2*F^{-3}*\cos^*\pi^{-4}*m83^{-1} + 73/18432/(mass(6))*\ln(6)^2*F^{-3} \\
& - 3*\sin^*\sqrt{3}*\pi^{-4}*m83^{-1} - 61/6912/(mass(6))*\ln(6)^2*F^{-3}*\sin^2*\cos^*\pi^{-4} \\
& - 4*m83^{-1} - 23/6912/(mass(6))*\ln(6)^2*F^{-3}*\sin^3*\sqrt{3}*\pi^{-4}*m83^{-1} - \\
& 281/110592/(mass(7))*\ln(6)^2*F^{-3}*\cos^*\pi^{-4}*m83^{-1} + 215/55296/(mass(7))*\ln(6)^2*F^{-3} \\
& - 3*\sin^*\sqrt{3}*\pi^{-4}*m83^{-1} - 61/6912/(mass(7))*\ln(6)^2*F^{-3}*\sin^2*\cos^*\pi^{-4} \\
& - 4*m83^{-1} - 23/6912/(mass(7))*\ln(6)^2*F^{-3}*\sin^3*\sqrt{3}*\pi^{-4}*m83^{-1} + \\
& 23/51840/(mass(8))*\ln(8)^2*F^{-3}*\cos^*\pi^{-4}*m83^{-1} - 91/77760/(mass(8))*\ln(8)^2*F^{-3} \\
& - 3*\sin^*\sqrt{3}*\pi^{-4}*m83^{-1} - 251/19440/(mass(8))*\ln(8)^2*F^{-3}*\sin^2*\cos^*\pi^{-4} \\
& - 4*m83^{-1} + 2/243/(mass(8))*\ln(8)^2*F^{-3}*\sin^4*\cos^*\pi^{-4}*m83^{-1}) \\
& + mud^2*mkp2^3 * (- 5/7776/(mass(3))*\ln(3)^2*F^{-3}*\cos^*\pi^{-4}*m83^{-2} + \\
& 7/2916/(mass(3))*\ln(3)^2*F^{-3}*\sin^*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/1458/(mass(3))*\ln(3)^2*F^{-3} \\
& - 3*\sin^2*\cos^*\pi^{-4}*m83^{-2} - 1/864/(mass(6))*\ln(6)^2*F^{-3}*\cos^*\pi^{-4} \\
& - 4*m83^{-2} + 5/864/(mass(6))*\ln(6)^2*F^{-3}*\sin^*\sqrt{3}*\pi^{-4}*m83^{-2} - \\
& 1/7776/(mass(8))*\ln(8)^2*F^{-3}*\cos^*\pi^{-4}*m83^{-2} + 1/1458/(mass(8))*\ln(8)^2*F^{-3} \\
& - 3*\sin^*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/1458/(mass(8))*\ln(8)^2*F^{-3}*\sin^2*\cos^*\pi^{-4} \\
& - 4*m83^{-2}) \\
& + mud^2*mpp2 * (+ 1253/663552*F^{-3}*\cos^*\pi^{-4}*m83^{-1} + 293/995328*F^{-3} \\
& - 3*\cos^*\pi^{-2}*m83^{-1} + 5/18*F^{-3}*\cos^*\pi^{-2}*L8r*m83^{-1} + 1/9*F^{-3} \\
& - 3*\cos^*\pi^{-2}*L7r*m83^{-1} + 5/18*F^{-3}*\cos^*\pi^{-2}*L6r*m83^{-1} - 13/108*F^{-3} \\
& - 3*\cos^*\pi^{-2}*L5r*m83^{-1} - 5/36*F^{-3}*\cos^*\pi^{-2}*L4r*m83^{-1} - 1/288*F^{-3} \\
& - 3*\cos^*\pi^{-2}*L3r*m83^{-1} - 64/9*F^{-3}*\cos^*\pi^{-2}*L5r*L8r*m83^{-1} - 64/3*F^{-3} \\
& - 3*\cos^*\pi^{-2}*L5r*L7r*m83^{-1} - 64/3*F^{-3}*\cos^*\pi^{-2}*L4r*L8r*m83^{-1} - 64*F^{-3} \\
& - 3*\cos^*\pi^{-2}*L4r*L7r*m83^{-1} - 64/3*F^{-3}*\cos^*\pi^{-2}*CC33*m83^{-1} - 32/3*F^{-3} \\
& - 3*\cos^*\pi^{-2}*CC32*m83^{-1} - 32/3*F^{-3}*\cos^*\pi^{-2}*CC31*m83^{-1} - 32/3*F^{-3}*\cos^*\pi^{-2}*CC20*m83^{-1} \\
& - 16*F^{-3}*\cos^*\pi^{-2}*CC19*m83^{-1} + 16/3*F^{-3}*\cos^*\pi^{-2}*CC18*m83^{-1} + 16/9*F^{-3} \\
& - 3*\cos^*\pi^{-2}*CC17*m83^{-1} + 16/9*F^{-3}*\cos^*\pi^{-2}*CC14*m83^{-1} - 4139/9953280*F^{-3} \\
& - 3*\sin^*\sqrt{3}*\pi^{-4}*m83^{-1} - 2351/14929920*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*m83^{-1} \\
& + 11/54*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} + 1/27*F^{-3}*\sin^*\sqrt{3}*\pi^{-2} \\
& - 2*L7r*m83^{-1} + 5/54*F^{-3}*\sin^*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} - 31/324*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L5r^* m83^{\wedge-1} - 5/108 * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L4r^* m83^{\wedge-1} - \\
& 13/864 * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L3r^* m83^{\wedge-1} + 2240/27 * F^{\wedge-3} * \sin x^* \sqrt{3}^* L5r^* L8r^* m83^{\wedge-1} \\
& + 2240/9 * F^{\wedge-3} * \sin x^* \sqrt{3}^* L5r^* L7r^* m83^{\wedge-1} - 64/9 * F^{\wedge-3} * \sin x^* \sqrt{3}^* L4r^* L8r^* m83^{\wedge-1} \\
& - 64/3 * F^{\wedge-3} * \sin x^* \sqrt{3}^* L4r^* L7r^* m83^{\wedge-1} - 64/9 * F^{\wedge-3} * \sin x^* \sqrt{3}^* CC33^* m83^{\wedge-1} \\
& - 32/9 * F^{\wedge-3} * \sin x^* \sqrt{3}^* CC32^* m83^{\wedge-1} - 32/9 * F^{\wedge-3} * \sin x^* \sqrt{3}^* CC31^* m83^{\wedge-1} \\
& - 32/9 * F^{\wedge-3} * \sin x^* \sqrt{3}^* CC20^* m83^{\wedge-1} - 16/3 * F^{\wedge-3} * \sin x^* \sqrt{3}^* CC19^* m83^{\wedge-1} + \\
& 208/9 * F^{\wedge-3} * \sin x^* \sqrt{3}^* CC18^* m83^{\wedge-1} + 208/27 * F^{\wedge-3} * \sin x^* \sqrt{3}^* CC17^* m83^{\wedge-1} \\
& + 208/27 * F^{\wedge-3} * \sin x^* \sqrt{3}^* CC14^* m83^{\wedge-1} + 1253/82944 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& + 293/124416 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * m83^{\wedge-1} + 20/9 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-1} \\
& + 8/9 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-1} + 20/9 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L6r^* m83^{\wedge-1} \\
& - 26/27 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L5r^* m83^{\wedge-1} - 10/9 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L4r^* m83^{\wedge-1} \\
& - 1/36 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L3r^* m83^{\wedge-1} - 512/9 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* L5r^* L8r^* m83^{\wedge-1} \\
& - 512/3 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* L5r^* L7r^* m83^{\wedge-1} - 512/3 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* L4r^* L8r^* m83^{\wedge-1} \\
& - 512 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* L4r^* L7r^* m83^{\wedge-1} - 512/3 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* CC33^* m83^{\wedge-1} \\
& - 256/3 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* CC32^* m83^{\wedge-1} - 256/3 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* CC31^* m83^{\wedge-1} \\
& - 256/3 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* CC20^* m83^{\wedge-1} - 128 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* CC19^* m83^{\wedge-1} \\
& + 128/3 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* CC18^* m83^{\wedge-1} + 128/9 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* CC17^* m83^{\wedge-1} \\
& + 128/9 * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* CC14^* m83^{\wedge-1} + 2/9 * C^* F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-1} \\
& + 2/3 * C^* F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-1} + 125/62208 * C^* F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& - 4/27 * C^* F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L8r^* m83^{\wedge-1} - 10/9 * C^* F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L7r^* m83^{\wedge-1} \\
& - 2/9 * C^* F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L5r^* m83^{\wedge-1} + 16/9 * C^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-1} \\
& + 16/3 * C^* F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-1} - 23/34560 * C^{\wedge 2} * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& - 11/11520 * C^* \ln(1) * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} + 11/11520 * C^* \ln(1) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& - 11/23040 * C^* \ln(3) * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} + 263/207360 * C^* \ln(3) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& - 11/2880 * C^* \ln(3) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} + 1/2304 * C^* \ln(4) * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& - 1/2304 * C^* \ln(4) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} - 1/576 * C^* \ln(4) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& + 1/1728 * C^* \ln(4) * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} + 1/2304 * C^* \ln(6) * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& + 23/17280 * C^* \ln(6) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} - 1/576 * C^* \ln(6) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& + 13/69120 * C^* \ln(8) * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} - 1/1728 * C^* \ln(8) * F^{\wedge-3} * \sin x^{\wedge 3} * \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& + 13/69120 * C^* \ln(8) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} + 13/8640 * C^* \ln(8) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& - 1/3072 * \ln(1) * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} + 1/6 * \ln(1) * F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-1} \\
& + 1/2 * \ln(1) * F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-1} + 5/36 * \ln(1) * F^{\wedge-3} * \cos x^* \pi^{\wedge-2} * L5r^* m83^{\wedge-1} \\
& + 1/41472 * \ln(1) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1} + 1/27 * \ln(1) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L8r^* m83^{\wedge-1} \\
& + 1/3 * \ln(1) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L7r^* m83^{\wedge-1} - 2/9 * \ln(1) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L6r^* m83^{\wedge-1} \\
& - 1/27 * \ln(1) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L5r^* m83^{\wedge-1} + 1/12 * \ln(1) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-2} * L4r^* m83^{\wedge-1} \\
& + 17/20736 * \ln(1) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} - 32/27 * \ln(1) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-1} \\
& - 32/9 * \ln(1) * F^{\wedge-3} * \sin x^{\wedge 2} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-1} - 1/1296 * \ln(1) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} \\
& + 40/27 * \ln(1) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-2} * L8r^* m83^{\wedge-1} + 40/9 * \ln(1) * F^{\wedge-3} * \sin x^{\wedge 4} * \cos x^* \pi^{\wedge-2} * L7r^* m83^{\wedge-1} \\
& + 41/138240 * \ln(1) * \ln(3) * F^{\wedge-3} * \cos x^* \pi^{\wedge-4} * m83^{\wedge-1} - 251/414720 * \ln(1) * \ln(3) * F^{\wedge-3} * \sin x^* \sqrt{3}^* \pi^{\wedge-4} * m83^{\wedge-1}
\end{aligned}$$

$$\begin{aligned}
& + 169/207360*\ln(1)*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-4*m83^{-1}} - 7/5184*\ln(1)*\ln(3)*F^{-} \\
& 3*\sin x^4*\cos x*\pi^{-4*m83^{-1}} - 1/864*\ln(1)*\ln(3)*F^{-3*\sin x^6*\cos x*\pi^{-} \\
& 4*m83^{-1} - 1/55296*\ln(1)*\ln(4)*F^{-3*\cos x*\pi^{-4*m83^{-1}} - 37/165888*\ln(1)*\ln(4)*F^{-} \\
& 3*\sin x*\sqrt{3}*\pi^{-4*m83^{-1}} + 7/13824*\ln(1)*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-} \\
& 4*m83^{-1}} + 49/41472*\ln(1)*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4*m83^{-1}} - } \\
& 5/3456*\ln(1)*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-4*m83^{-1}} - 5/3456*\ln(1)*\ln(4)*F^{-} \\
& 3*\sin x^5*\sqrt{3}*\pi^{-4*m83^{-1}} + 1/55296*\ln(1)*\ln(6)*F^{-3*\cos x*\pi^{-4*m83^{-1}} - } \\
& - 37/829440*\ln(1)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4*m83^{-1}} + 7/13824*\ln(1)*\ln(6)*F^{-} \\
& 3*\sin x^2*\cos x*\pi^{-4*m83^{-1}} - 49/41472*\ln(1)*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-} \\
& 4*m83^{-1}} - 5/3456*\ln(1)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4*m83^{-1}} + 5/3456*\ln(1)*\ln(6)*F^{-} \\
& 3*\sin x^5*\sqrt{3}*\pi^{-4*m83^{-1}} + 109/138240*\ln(1)*\ln(8)*F^{-3*\cos x*\pi^{-} \\
& 4*m83^{-1}} + 91/414720*\ln(1)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4*m83^{-1}} - 29/207360*\ln(1)*\ln(8)*F^{-} \\
& 3*\sin x^2*\cos x*\pi^{-4*m83^{-1}} - 1/1728*\ln(1)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-} \\
& 4*m83^{-1}} + 1/864*\ln(1)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4*m83^{-1}} + 1/20736*\ln(3)*F^{-} \\
& 3*\cos x*\pi^{-4*m83^{-1}} + 7/27*\ln(3)*F^{-3*\cos x*\pi^{-2*L8r*m83^{-1}} + 1/3*\ln(3)*F^{-} \\
& 3*\cos x*\pi^{-2*L7r*m83^{-1}} + 1/9*\ln(3)*F^{-3*\cos x*\pi^{-2*L6r*m83^{-1}} - } \\
& 1/27*\ln(3)*F^{-3*\cos x*\pi^{-2*L5r*m83^{-1}} - 1/24*\ln(3)*F^{-3*\cos x*\pi^{-} \\
& 2*L4r*m83^{-1}} + 1/6912*\ln(3)*F^{-3*\sin x*\sqrt{3}*\pi^{-4*m83^{-1}} - 53/81*\ln(3)*F^{-} \\
& 3*\sin x*\sqrt{3}*\pi^{-2*L8r*m83^{-1}} - 34/27*\ln(3)*F^{-3*\sin x*\sqrt{3}*\pi^{-2*L7r*m83^{-} \\
& 1} - 1/27*\ln(3)*F^{-3*\sin x*\sqrt{3}*\pi^{-2*L6r*m83^{-1}} + 1/36*\ln(3)*F^{-} \\
& 3*\sin x*\sqrt{3}*\pi^{-2*L5r*m83^{-1}} + 1/72*\ln(3)*F^{-3*\sin x*\sqrt{3}*\pi^{-2*L4r*m83^{-} \\
& 1} + 1/2592*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-4*m83^{-1}} + 80/27*\ln(3)*F^{-} \\
& 3*\sin x^2*\cos x*\pi^{-2*L8r*m83^{-1}} + 16/3*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-} \\
& 2*L7r*m83^{-1}} + 8/9*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2*L6r*m83^{-1}} - 8/27*\ln(3)*F^{-} \\
& 3*\sin x^2*\cos x*\pi^{-2*L5r*m83^{-1}} - 1/3*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2*L4r*m83^{-} \\
& 1} + 128/27*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2*L8r*m83^{-1}} + 128/9*\ln(3)*F^{-} \\
& 3*\sin x^4*\cos x*\pi^{-2*L7r*m83^{-1}} - 128/27*\ln(3)*F^{-3*\sin x^6*\cos x*\pi^{-} \\
& 2*L8r*m83^{-1}} - 128/9*\ln(3)*F^{-3*\sin x^6*\cos x*\pi^{-2*L7r*m83^{-1}} - 5/55296*\ln(3)^2*F^{-} \\
& 3*\cos x*\pi^{-4*m83^{-1}} + 119/497664*\ln(3)^2*F^{-3*\sin x*\sqrt{3}*\pi^{-4*m83^{-1}} - } \\
& - 35/27648*\ln(3)^2*F^{-3*\sin x^2*\cos x*\pi^{-4*m83^{-1}} - 1/576*\ln(3)^2*F^{-} \\
& 3*\sin x^4*\cos x*\pi^{-4*m83^{-1}} - 7/5184*\ln(3)^2*F^{-3*\sin x^6*\cos x*\pi^{-4*m83^{-} \\
& 1} + 1/324*\ln(3)^2*F^{-3*\sin x^8*\cos x*\pi^{-4*m83^{-1}} - 719/1658880*\ln(3)*\ln(4)*F^{-} \\
& 3*\cos x*\pi^{-4*m83^{-1}} + 383/552960*\ln(3)*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-} \\
& 4*m83^{-1}} + 293/414720*\ln(3)*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-4*m83^{-1}} - } \\
& 1/9216*\ln(3)*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4*m83^{-1}} - 41/10368*\ln(3)*\ln(4)*F^{-} \\
& 3*\sin x^4*\cos x*\pi^{-4*m83^{-1}} - 1/432*\ln(3)*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-} \\
& 4*m83^{-1}} + 1/192*\ln(3)*\ln(4)*F^{-3*\sin x^6*\cos x*\pi^{-4*m83^{-1}} + 11/5184*\ln(3)*\ln(4)*F^{-} \\
& 3*\sin x^7*\sqrt{3}*\pi^{-4*m83^{-1}} + 1049/1658880*\ln(3)*\ln(6)*F^{-3*\cos x*\pi^{-} \\
& 4*m83^{-1}} - 719/1658880*\ln(3)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4*m83^{-1}} + } \\
& 293/414720*\ln(3)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4*m83^{-1}} + 1/9216*\ln(3)*\ln(6)*F^{-} \\
& 3*\sin x^3*\sqrt{3}*\pi^{-4*m83^{-1}} - 41/10368*\ln(3)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-} \\
& 4*m83^{-1}} + 1/432*\ln(3)*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4*m83^{-1}} + 1/192*\ln(3)*\ln(6)*F^{-} \\
& 3*\sin x^6*\cos x*\pi^{-4*m83^{-1}} - 11/5184*\ln(3)*\ln(6)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-} \\
& 4*m83^{-1}} - 1/82944*\ln(3)*\ln(8)*F^{-3*\cos x*\pi^{-4*m83^{-1}} + 1/248832*\ln(3)*\ln(8)*F^{-} \\
& 3*\sin x*\sqrt{3}*\pi^{-4*m83^{-1}} - 7/41472*\ln(3)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-} \\
& 4*m83^{-1}} - 7/2592*\ln(3)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4*m83^{-1}} + 23/2592*\ln(3)*\ln(8)*F^{-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^6*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} - 1/162*\ln(3)*\ln(8)*F^{\wedge-3}*\sin x^8*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} - 5/55296*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} - 11/6*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L8r*m83^{\wedge-1} - 11/3*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L7r*m83^{\wedge-1} - 1/3*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L6r*m83^{\wedge-1} + 19/72*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L5r*m83^{\wedge-1} + 1/8*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L4r*m83^{\wedge-1} + 1/48*\ln(4)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L3r*m83^{\wedge-1} + 47/165888*\ln(4)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} + 29/18*\ln(4)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-2}*L8r*m83^{\wedge-1} + 3*\ln(4)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-2}*L7r*m83^{\wedge-1} + 1/3*\ln(4)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-2}*L6r*m83^{\wedge-1} - 19/72*\ln(4)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-2}*L5r*m83^{\wedge-1} - 1/8*\ln(4)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-2}*L4r*m83^{\wedge-1} - 1/48*\ln(4)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-2}*L3r*m83^{\wedge-1} - 1/5184*\ln(4)*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} + 118/27*\ln(4)*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-2}*L8r*m83^{\wedge-1} + 70/9*\ln(4)*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-2}*L7r*m83^{\wedge-1} + 4/3*\ln(4)*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-2}*L6r*m83^{\wedge-1} - 13/18*\ln(4)*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-2}*L5r*m83^{\wedge-1} - 1/2*\ln(4)*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-2}*L4r*m83^{\wedge-1} - 1/12*\ln(4)*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-2}*L3r*m83^{\wedge-1} - 7/6912*\ln(4)*F^{\wedge-3}*\sin x^3*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} + 4/27*\ln(4)*F^{\wedge-3}*\sin x^3*\sqrt{3}*\pi^{\wedge-2}*L8r*m83^{\wedge-1} + 20/9*\ln(4)*F^{\wedge-3}*\sin x^3*\sqrt{3}*\pi^{\wedge-2}*L7r*m83^{\wedge-1} - 4/9*\ln(4)*F^{\wedge-3}*\sin x^3*\sqrt{3}*\pi^{\wedge-2}*L6r*m83^{\wedge-1} + 13/54*\ln(4)*F^{\wedge-3}*\sin x^3*\sqrt{3}*\pi^{\wedge-2}*L5r*m83^{\wedge-1} + 1/6*\ln(4)*F^{\wedge-3}*\sin x^3*\sqrt{3}*\pi^{\wedge-2}*L4r*m83^{\wedge-1} + 1/36*\ln(4)*F^{\wedge-3}*\sin x^3*\sqrt{3}*\pi^{\wedge-2}*L3r*m83^{\wedge-1} + 1/2592*\ln(4)*F^{\wedge-3}*\sin x^4*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} - 20/27*\ln(4)*F^{\wedge-3}*\sin x^4*\cos x^*\pi^{\wedge-2}*L8r*m83^{\wedge-1} - 20/9*\ln(4)*F^{\wedge-3}*\sin x^4*\cos x^*\pi^{\wedge-2}*L7r*m83^{\wedge-1} + 1/864*\ln(4)*F^{\wedge-3}*\sin x^5*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} - 20/9*\ln(4)*F^{\wedge-3}*\sin x^5*\sqrt{3}*\pi^{\wedge-2}*L8r*m83^{\wedge-1} - 20/3*\ln(4)*F^{\wedge-3}*\sin x^5*\sqrt{3}*\pi^{\wedge-2}*L7r*m83^{\wedge-1} + 1/13824*\ln(4)^2*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} + 5/13824*\ln(4)^2*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} - 101/41472*\ln(4)^2*F^{\wedge-3}*\sin x^3*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} + 5/1728*\ln(4)^2*F^{\wedge-3}*\sin x^5*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} + 1/55296*\ln(4)*\ln(6)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} + 85/165888*\ln(4)*\ln(6)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} - 1/1152*\ln(4)*\ln(6)*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} + 5/1728*\ln(4)*\ln(6)*F^{\wedge-3}*\sin x^4*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} - 1081/1658880*\ln(4)*\ln(8)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} + 377/552960*\ln(4)*\ln(8)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} + 887/414720*\ln(4)*\ln(8)*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} - 89/27648*\ln(4)*\ln(8)*F^{\wedge-3}*\sin x^3*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} + 17/3456*\ln(4)*\ln(8)*F^{\wedge-3}*\sin x^4*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} + 1/192*\ln(4)*\ln(8)*F^{\wedge-3}*\sin x^5*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} - 1/192*\ln(4)*\ln(8)*F^{\wedge-3}*\sin x^6*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} - 11/5184*\ln(4)*\ln(8)*F^{\wedge-3}*\sin x^7*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} + 13/27648*\ln(6)*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} + 47/18*\ln(6)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L8r*m83^{\wedge-1} + 14/3*\ln(6)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L7r*m83^{\wedge-1} + 2/3*\ln(6)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L6r*m83^{\wedge-1} - 7/12*\ln(6)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L5r*m83^{\wedge-1} - 1/4*\ln(6)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L4r*m83^{\wedge-1} - 1/24*\ln(6)*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*L3r*m83^{\wedge-1} - 13/13824*\ln(6)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-4}*m83^{\wedge-1} - 16/9*\ln(6)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-2}*L8r*m83^{\wedge-1} - 9/2*\ln(6)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-2}*L7r*m83^{\wedge-1} + 1/54*\ln(6)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-2}*L5r*m83^{\wedge-1} - 5/72*\ln(6)*F^{\wedge-3}*\sin x*\sqrt{3}*\pi^{\wedge-2}*L3r*m83^{\wedge-1} - 1/5184*\ln(6)*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-4}*m83^{\wedge-1} + 118/27*\ln(6)*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-2}*L8r*m83^{\wedge-1} + 70/9*\ln(6)*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-2}*L7r*m83^{\wedge-1} + 4/3*\ln(6)*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-2}*L6r*m83^{\wedge-1} - 13/18*\ln(6)*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-2}*L5r*m83^{\wedge-1} - 1/2*\ln(6)*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-2}*L4r*m83^{\wedge-1} - 1/12*\ln(6)*F^{\wedge-3}*\sin x^2*\cos x^*\pi^{\wedge-2}
\end{aligned}$$

$$\begin{aligned}
& 2^*L3r^*m83^{-1} + 7/6912^*\ln(6)^*F^{-3^*\sin x^3^*\sqrt{3^*\pi^{-4^*m83^{-1}} - 4/27^*\ln(6)^*F^{-3^*\sin x^3^*\sqrt{3^*\pi^{-2^*L8r^*m83^{-1}} - 20/9^*\ln(6)^*F^{-3^*\sin x^3^*\sqrt{3^*\pi^{-2^*L7r^*m83^{-1}} + 4/9^*\ln(6)^*F^{-3^*\sin x^3^*\sqrt{3^*\pi^{-2^*L6r^*m83^{-1}} - 13/54^*\ln(6)^*F^{-3^*\sin x^3^*\sqrt{3^*\pi^{-2^*L5r^*m83^{-1}} - 1/6^*\ln(6)^*F^{-3^*\sin x^3^*\sqrt{3^*\pi^{-2^*L4r^*m83^{-1}} - 1/36^*\ln(6)^*F^{-3^*\sin x^3^*\sqrt{3^*\pi^{-2^*L3r^*m83^{-1}} + 1/2592^*\ln(6)^*F^{-3^*\sin x^4^*\cos x^*\pi^{-4^*m83^{-1}} - 20/27^*\ln(6)^*F^{-3^*\sin x^4^*\cos x^*\pi^{-2^*L8r^*m83^{-1}} - 1 - 20/9^*\ln(6)^*F^{-3^*\sin x^4^*\cos x^*\pi^{-2^*L7r^*m83^{-1}} - 1/864^*\ln(6)^*F^{-3^*\sin x^5^*\sqrt{3^*\pi^{-4^*m83^{-1}} + 20/9^*\ln(6)^*F^{-3^*\sin x^5^*\sqrt{3^*\pi^{-2^*L8r^*m83^{-1}} + 20/3^*\ln(6)^*F^{-3^*\sin x^5^*\sqrt{3^*\pi^{-2^*L7r^*m83^{-1}} + 5/55296^*\ln(6)^2^*F^{-3^*\cos x^*\pi^{-4^*m83^{-1}} + 523/829440^*\ln(6)^2^*F^{-3^*\sin x^*\sqrt{3^*\pi^{-4^*m83^{-1}} + 5/13824^*\ln(6)^2^*F^{-3^*\sin x^2^*\cos x^*\pi^{-4^*m83^{-1}} + 101/41472^*\ln(6)^2^*F^{-3^*\sin x^3^*\sqrt{3^*\pi^{-4^*m83^{-1}} - 5/1728^*\ln(6)^2^*F^{-3^*\sin x^5^*\sqrt{3^*\pi^{-4^*m83^{-1}} + 271/1658880^*\ln(6)^*\ln(8)^*F^{-3^*\cos x^*\pi^{-4^*m83^{-1}} + 623/1658880^*\ln(6)^*\ln(8)^*F^{-3^*\sin x^*\sqrt{3^*\pi^{-4^*m83^{-1}} + 887/414720^*\ln(6)^*\ln(8)^*F^{-3^*\sin x^2^*\cos x^*\pi^{-4^*m83^{-1}} + 89/27648^*\ln(6)^*\ln(8)^*F^{-3^*\sin x^3^*\sqrt{3^*\pi^{-4^*m83^{-1}} + 17/3456^*\ln(6)^*\ln(8)^*F^{-3^*\sin x^4^*\cos x^*\pi^{-4^*m83^{-1}} - 1/192^*\ln(6)^*\ln(8)^*F^{-3^*\sin x^5^*\sqrt{3^*\pi^{-4^*m83^{-1}} - 1/192^*\ln(6)^*\ln(8)^*F^{-3^*\sin x^6^*\cos x^*\pi^{-4^*m83^{-1}} + 11/5184^*\ln(6)^*\ln(8)^*F^{-3^*\sin x^7^*\sqrt{3^*\pi^{-4^*m83^{-1}} + 5/41472^*\ln(8)^*F^{-3^*\cos x^*\pi^{-4^*m83^{-1}} + 4/9^*\ln(8)^*F^{-3^*\cos x^*\pi^{-2^*L8r^*m83^{-1}} + 8/9^*\ln(8)^*F^{-3^*\cos x^*\pi^{-2^*L7r^*m83^{-1}} + 1/9^*\ln(8)^*F^{-3^*\cos x^*\pi^{-2^*L6r^*m83^{-1}} - 1/12^*\ln(8)^*F^{-3^*\cos x^*\pi^{-2^*L5r^*m83^{-1}} - 1/24^*\ln(8)^*F^{-3^*\cos x^*\pi^{-2^*L4r^*m83^{-1}} + 25/124416^*\ln(8)^*F^{-3^*\sin x^*\sqrt{3^*\pi^{-4^*m83^{-1}} + 8/9^*\ln(8)^*F^{-3^*\sin x^*\sqrt{3^*\pi^{-2^*L8r^*m83^{-1}} + 5/3^*\ln(8)^*F^{-3^*\sin x^*\sqrt{3^*\pi^{-2^*L7r^*m83^{-1}} + 1/9^*\ln(8)^*F^{-3^*\sin x^*\sqrt{3^*\pi^{-2^*L6r^*m83^{-1}} - 41/162^*\ln(8)^*F^{-3^*\sin x^*\sqrt{3^*\pi^{-2^*L5r^*m83^{-1}} - 1/24^*\ln(8)^*F^{-3^*\sin x^*\sqrt{3^*\pi^{-2^*L4r^*m83^{-1}} + 5/5184^*\ln(8)^*F^{-3^*\sin x^2^*\cos x^*\pi^{-4^*m83^{-1}} + 8/3^*\ln(8)^*F^{-3^*\sin x^2^*\cos x^*\pi^{-2^*L8r^*m83^{-1}} + 40/9^*\ln(8)^*F^{-3^*\sin x^2^*\cos x^*\pi^{-2^*L7r^*m83^{-1}} + 8/9^*\ln(8)^*F^{-3^*\sin x^2^*\cos x^*\pi^{-2^*L6r^*m83^{-1}} - 2/3^*\ln(8)^*F^{-3^*\sin x^2^*\cos x^*\pi^{-2^*L5r^*m83^{-1}} - 1 - 1/3^*\ln(8)^*F^{-3^*\sin x^2^*\cos x^*\pi^{-2^*L4r^*m83^{-1}} - 128/27^*\ln(8)^*F^{-3^*\sin x^4^*\cos x^*\pi^{-2^*L8r^*m83^{-1}} - 128/9^*\ln(8)^*F^{-3^*\sin x^4^*\cos x^*\pi^{-2^*L7r^*m83^{-1}} + 128/9^*\ln(8)^*F^{-3^*\sin x^6^*\cos x^*\pi^{-2^*L8r^*m83^{-1}} + 128/9^*\ln(8)^*F^{-3^*\sin x^6^*\cos x^*\pi^{-2^*L7r^*m83^{-1}} - 35/165888^*\ln(8)^2^*F^{-3^*\cos x^*\pi^{-4^*m83^{-1}} - 173/497664^*\ln(8)^2^*F^{-3^*\sin x^*\sqrt{3^*\pi^{-4^*m83^{-1}} - 89/82944^*\ln(8)^2^*F^{-3^*\sin x^2^*\cos x^*\pi^{-4^*m83^{-1}} + 23/5184^*\ln(8)^2^*F^{-3^*\sin x^4^*\cos x^*\pi^{-4^*m83^{-1}} - 13/1728^*\ln(8)^2^*F^{-3^*\sin x^6^*\cos x^*\pi^{-4^*m83^{-1}} + 1/324^*\ln(8)^2^*F^{-3^*\sin x^8^*\cos x^*\pi^{-4^*m83^{-1}} + 289/1105920/(mass(3))^*\ln(3)^2^*F^{-3^*\cos x^*\pi^{-4} - 79/552960/(mass(3))^*\ln(3)^2^*F^{-3^*\sin x^*\sqrt{3^*\pi^{-4} + 1/2160/(mass(3))^*\ln(3)^2^*F^{-3^*\sin x^2^*\cos x^*\pi^{-4} - 1/15360/(mass(4))^*\ln(4)^2^*F^{-3^*\cos x^*\pi^{-4} + 1/15360/(mass(4))^*\ln(4)^2^*F^{-3^*\sin x^*\sqrt{3^*\pi^{-4} + 7/30720/(mass(4))^*\ln(4)^2^*F^{-3^*\sin x^2^*\cos x^*\pi^{-4} - 7/92160/(mass(4))^*\ln(4)^2^*F^{-3^*\sin x^3^*\sqrt{3^*\pi^{-4} - 3/20480/(mass(5))^*\ln(4)^2^*F^{-3^*\cos x^*\pi^{-4} + 3/20480/(mass(5))^*\ln(4)^2^*F^{-3^*\sin x^*\sqrt{3^*\pi^{-4} + 41/92160/(mass(5))^*\ln(4)^2^*F^{-3^*\sin x^2^*\cos x^*\pi^{-4} - 41/276480/(mass(5))^*\ln(4)^2^*F^{-3^*\sin x^3^*\sqrt{3^*\pi^{-4} + 7/12288/(mass(6))^*\ln(6)^2^*F^{-3^*\cos x^*\pi^{-4} - 47/368640/(mass(6))^*\ln(6)^2^*F^{-3^*\sin x^*\sqrt{3^*\pi^{-4} + 7/30720/(mass(6))^*\ln(6)^2^*F^{-3^*\sin x^2^*\cos x^*\pi^{-4} + 7/92160/(mass(6))^*\ln(6)^2^*F^{-3^*\sin x^3^*\sqrt{3^*\pi^{-4} + 5/9216/(mass(7))^*\ln(6)^2^*F^{-3^*\cos x^*\pi^{-4} -
\end{aligned}$$

$$\begin{aligned}
& 151/1105920/(\text{mass}(7))^{\ln(6)^2 F^{-3} \sin x \sqrt{3} \pi^{-4}} + 41/92160/(\text{mass}(7))^{\ln(6)^2 F^{-3} \sin x^2 \cos x \pi^{-4}} + 41/276480/(\text{mass}(7))^{\ln(6)^2 F^{-3} \sin x^3 \sqrt{3} \pi^{-4}} \\
& - 341/1105920/(\text{mass}(8))^{\ln(8)^2 F^{-3} \cos x \pi^{-4}} + 391/1658880/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x \sqrt{3} \pi^{-4}} + 1/2160/(\text{mass}(8))^{\ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4}} \\
& + \text{mud}^2 \text{mpp}^2 \text{mkp}^2 * (+ 5/1728 F^{-3} \cos x \pi^{-4} m83^{-2} + 5/10368 F^{-3} \cos x \pi^{-2} m83^{-2} - 20480/27 F^{-3} \cos x L8r^2 m83^{-2} - 11264/3 F^{-3} \cos x L7r L8r m83^{-2} - 13312/3 F^{-3} \cos x L7r^2 m83^{-2} - 1024/9 F^{-3} \cos x L6r L8r m83^{-2} - 1024/3 F^{-3} \cos x L6r L7r m83^{-2} - 2560/27 F^{-3} \cos x L5r L8r m83^{-2} - 2560/9 F^{-3} \cos x L5r L7r m83^{-2} + 512/9 F^{-3} \cos x L4r L8r m83^{-2} + 512/3 F^{-3} \cos x L4r L7r m83^{-2} - 5/864 F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 5/5184 F^{-3} \sin x \sqrt{3} \pi^{-2} m83^{-2} - 8192/27 F^{-3} \sin x \sqrt{3} L8r^2 m83^{-2} - 28672/9 F^{-3} \sin x \sqrt{3} L7r L8r m83^{-2} - 20480/3 F^{-3} \sin x \sqrt{3} L7r^2 m83^{-2} + 1024/3 F^{-3} \sin x \sqrt{3} L6r L8r m83^{-2} + 1024 F^{-3} \sin x \sqrt{3} L6r L7r m83^{-2} + 1024/9 F^{-3} \sin x \sqrt{3} L5r L8r m83^{-2} + 1024/3 F^{-3} \sin x \sqrt{3} L5r L7r m83^{-2} + 512/3 F^{-3} \sin x \sqrt{3} L4r L8r m83^{-2} + 512 F^{-3} \sin x \sqrt{3} L4r L7r m83^{-2} + 253952/27 F^{-3} \sin x^2 \cos x L8r^2 m83^{-2} + 57344 F^{-3} \sin x^2 \cos x L7r L8r m83^{-2} + 262144/3 F^{-3} \sin x^2 \cos x L7r^2 m83^{-2} - 8192/9 F^{-3} \sin x^2 \cos x L6r L8r m83^{-2} - 8192/3 F^{-3} \sin x^2 \cos x L6r L7r m83^{-2} + 4096/27 F^{-3} \sin x^2 \cos x L5r L8r m83^{-2} + 4096/9 F^{-3} \sin x^2 \cos x L5r L7r m83^{-2} + 4096/9 F^{-3} \sin x^2 \cos x L4r L8r m83^{-2} + 4096/3 F^{-3} \sin x^2 \cos x L4r L7r m83^{-2} - 131072/9 F^{-3} \sin x^4 \cos x L8r^2 m83^{-2} - 262144/3 F^{-3} \sin x^4 \cos x L7r L8r m83^{-2} - 131072 F^{-3} \sin x^4 \cos x L7r^2 m83^{-2} + 16/9 C F^{-3} \cos x \pi^{-2} L8r m83^{-2} + 16/3 C F^{-3} \cos x \pi^{-2} L7r m83^{-2} - 32/9 C F^{-3} \sin x \sqrt{3} \pi^{-2} L8r m83^{-2} - 32/3 C F^{-3} \sin x \sqrt{3} \pi^{-2} L7r m83^{-2} - 1/864 C \ln(1) F^{-3} \cos x \pi^{-4} m83^{-2} + 1/864 C \ln(1) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 1/648 C \ln(3) F^{-3} \cos x \pi^{-4} m83^{-2} + 5/1728 C \ln(3) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 1/324 C \ln(3) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} + 1/864 C \ln(4) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 1/432 C \ln(6) F^{-3} \cos x \pi^{-4} m83^{-2} + 1/216 C \ln(6) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 1/1296 C \ln(8) F^{-3} \cos x \pi^{-4} m83^{-2} + 1/576 C \ln(8) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} + 1/324 C \ln(8) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} - 8/27 \ln(1) F^{-3} \cos x \pi^{-2} L8r m83^{-2} - 4/3 \ln(1) F^{-3} \cos x \pi^{-2} L7r m83^{-2} + 2/9 \ln(1) F^{-3} \cos x \pi^{-2} L6r m83^{-2} + 1/9 \ln(1) F^{-3} \cos x \pi^{-2} L4r m83^{-2} + 40/81 \ln(1) F^{-3} \sin x \sqrt{3} \pi^{-2} L8r m83^{-2} + 56/27 \ln(1) F^{-3} \sin x \sqrt{3} \pi^{-2} L7r m83^{-2} - 8/27 \ln(1) F^{-3} \sin x \sqrt{3} \pi^{-2} L6r m83^{-2} + 64/27 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} L8r m83^{-2} + 64/9 \ln(1) F^{-3} \sin x^2 \cos x \pi^{-2} L7r m83^{-2} - 1/5184 \ln(1) \ln(3) F^{-3} \cos x \pi^{-4} m83^{-2} - 1/7776 \ln(1) \ln(3) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} + 1/864 \ln(1) \ln(3) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} - 1/324 \ln(1) \ln(3) F^{-3} \sin x^4 \cos x \pi^{-4} m83^{-2} - 1/6912 \ln(1) \ln(4) F^{-3} \cos x \pi^{-4} m83^{-2} + 13/10368 \ln(1) \ln(4) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 1/432 \ln(1) \ln(4) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} - 1/432 \ln(1) \ln(4) F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-2} + 7/6912 \ln(1) \ln(6) F^{-3} \cos x \pi^{-4} m83^{-2} - 29/10368 \ln(1) \ln(6) F^{-3} \sin x \sqrt{3} \pi^{-4} m83^{-2} - 1/432 \ln(1) \ln(6) F^{-3} \sin x^2 \cos x \pi^{-4} m83^{-2} + 1/432 \ln(1) \ln(6) F^{-3} \sin x^3 \sqrt{3} \pi^{-4} m83^{-2} + 5/10368 \ln(1) \ln(8) F^{-3} \cos x \pi^{-4} m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& - 1/2592*\ln(1)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} - 11/2592*\ln(1)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 1/324*\ln(1)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} + 119/81*\ln(3)*F^{-3*\cos x*\pi^{-2}*L8r*m83^{-2}} + 101/27*\ln(3)*F^{-3*\cos x*\pi^{-2}*L7r*m83^{-2}} + 4/27*\ln(3)*F^{-3*\cos x*\pi^{-2}*L6r*m83^{-2}} + 5/81*\ln(3)*F^{-3*\cos x*\pi^{-2}*L5r*m83^{-2}} - 64/81*\ln(3)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} - 32/27*\ln(3)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} - 8/27*\ln(3)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2}} - 8/81*\ln(3)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2}} - 2/27*\ln(3)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2}} - 680/81*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2}} - 736/27*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2}} + 40/27*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2}} - 4/27*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2}} - 4/27*\ln(3)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2}} - 80/9*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2}} - 704/27*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2}} - 16/27*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-2}} + 8/81*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-2}} + 8/27*\ln(3)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-2}} + 640/27*\ln(3)*F^{-3*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-2}} + 640/9*\ln(3)*F^{-3*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-2}} - 5/6912*\ln(3)^2*F^{-3*\cos x*\pi^{-4}*m83^{-2}} + 1/1296*\ln(3)^2*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} + 5/5184*\ln(3)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 61/7776*\ln(3)^2*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} - 5/972*\ln(3)^2*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} - 1/162*\ln(3)^2*F^{-3*\sin x^8*\cos x*\pi^{-4}*m83^{-2}} + 25/27648*\ln(3)*\ln(4)*F^{-3*\cos x*\pi^{-4}*m83^{-2}} - 941/248832*\ln(3)*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} + 23/2592*\ln(3)*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 119/15552*\ln(3)*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} + 25/2592*\ln(3)*\ln(4)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} + 7/7776*\ln(3)*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} - 5/216*\ln(3)*\ln(4)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} - 1/216*\ln(3)*\ln(4)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2}} - 253/82944*\ln(3)*\ln(6)*F^{-3*\cos x*\pi^{-4}*m83^{-2}} + 1141/248832*\ln(3)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} + 23/2592*\ln(3)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 119/15552*\ln(3)*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} + 25/2592*\ln(3)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} - 7/7776*\ln(3)*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} - 5/216*\ln(3)*\ln(6)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} + 1/216*\ln(3)*\ln(6)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2}} - 11/20736*\ln(3)*\ln(8)*F^{-3*\cos x*\pi^{-4}*m83^{-2}} - 1/2592*\ln(3)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} + 65/7776*\ln(3)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} - 5/1296*\ln(3)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} - 5/243*\ln(3)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} + 1/81*\ln(3)*\ln(8)*F^{-3*\sin x^8*\cos x*\pi^{-4}*m83^{-2}} - 41/27*\ln(4)*F^{-3*\cos x*\pi^{-2}*L8r*m83^{-2}} - 38/9*\ln(4)*F^{-3*\cos x*\pi^{-2}*L7r*m83^{-2}} - 1/3*\ln(4)*F^{-3*\cos x*\pi^{-2}*L6r*m83^{-2}} + 1/18*\ln(4)*F^{-3*\cos x*\pi^{-2}*L5r*m83^{-2}} + 1/6*\ln(4)*F^{-3*\cos x*\pi^{-2}*L4r*m83^{-2}} + 562/81*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} + 62/3*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} - 2 + 14/27*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2}} - 4/27*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2}} - 1/3*\ln(4)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2}} - 184/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2}} - 560/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2}} + 8/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2}} - 4/27*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2}} - 4/9*\ln(4)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2}} - 1640/81*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} - 1616/27*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} -
\end{aligned}$$

$$\begin{aligned}
& 8/9*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} + 4/27*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2} \\
& - 2*L5r*m83^{-2} + 4/9*\ln(4)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} + 256/9*\ln(4)*F^{-3} \\
& - 3*\sin^4*\cos^2*\pi^{-2}*L8r*m83^{-2} + 256/3*\ln(4)*F^{-3}*\sin^4*\cos^2*\pi^{-2} \\
& - 2*L7r*m83^{-2} + 128/9*\ln(4)*F^{-3}*\sin^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 128/3*\ln(4)*F^{-3} \\
& - 5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 5/2304*\ln(4)^2*F^{-3}*\cos^2*\pi^{-4}*m83^{-2} - 25/3456*\ln(4)^2*F^{-3} \\
& - \sin^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/72*\ln(4)^2*F^{-3}*\sin^4*\cos^2*\pi^{-4}*m83^{-2} - 13/648*\ln(4)^2*F^{-3} \\
& - \sin^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 13/6912*\ln(4)*\ln(6)*F^{-3}*\cos^2*\pi^{-4}*m83^{-2} + 11/20736*\ln(4)*\ln(6)*F^{-3} \\
& - \sin^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 13/432*\ln(4)*\ln(6)*F^{-3}*\sin^2*\cos^2*\pi^{-4}*m83^{-2} - 1/36*\ln(4)*\ln(6)*F^{-3} \\
& - \sin^4*\cos^2*\pi^{-4}*m83^{-2} + 101/82944*\ln(4)*\ln(8)*F^{-3}*\cos^2*\pi^{-4}*m83^{-2} - 1363/248832*\ln(4)*\ln(8)*F^{-3} \\
& - \sin^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/288*\ln(4)*\ln(8)*F^{-3}*\sin^2*\cos^2*\pi^{-4}*m83^{-2} + 11/576*\ln(4)*\ln(8)*F^{-3} \\
& - \sin^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 121/2592*\ln(4)*\ln(8)*F^{-3}*\sin^4*\cos^2*\pi^{-4}*m83^{-2} - 151/7776*\ln(4)*\ln(8)*F^{-3} \\
& - \sin^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/216*\ln(4)*\ln(8)*F^{-3}*\sin^6*\cos^2*\pi^{-4}*m83^{-2} + 1/216*\ln(4)*\ln(8)*F^{-3} \\
& - \sin^7*\sqrt{3}*\pi^{-4}*m83^{-2} + 37/9*\ln(6)*F^{-3}*\cos^2*\pi^{-2}*L8r*m83^{-2} + 98/9*\ln(6)*F^{-3}*\cos^2*\pi^{-2} \\
& - 2*L7r*m83^{-2} + 1/3*\ln(6)*F^{-3}*\cos^2*\pi^{-2}*L6r*m83^{-2} + 7/54*\ln(6)*F^{-3}*\cos^2*\pi^{-2}*L5r*m83^{-2} - 7/18*\ln(6)*F^{-3} \\
& - \cos^2*\pi^{-2}*L4r*m83^{-2} - 434/81*\ln(6)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 374/27*\ln(6)*F^{-3} \\
& - \sin^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 8/9*\ln(6)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} - 2/27*\ln(6)*F^{-3} \\
& - \sin^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} - 184/9*\ln(6)*F^{-3}*\sin^2*\cos^2*\pi^{-2}*L8r*m83^{-2} - 560/9*\ln(6)*F^{-3} \\
& - \sin^2*\cos^2*\pi^{-2}*L7r*m83^{-2} + 8/9*\ln(6)*F^{-3}*\sin^2*\cos^2*\pi^{-2}*L6r*m83^{-2} - 4/27*\ln(6)*F^{-3} \\
& - \sin^2*\cos^2*\pi^{-2}*L5r*m83^{-2} + 1640/81*\ln(6)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 1616/27*\ln(6)*F^{-3} \\
& - \sin^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 8/9*\ln(6)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} - 4/27*\ln(6)*F^{-3} \\
& - \sin^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-2} + 256/9*\ln(6)*F^{-3}*\sin^4*\cos^2*\pi^{-2}*L8r*m83^{-2} + 256/3*\ln(6)*F^{-3} \\
& - \sin^4*\cos^2*\pi^{-2}*L7r*m83^{-2} - 128/9*\ln(6)*F^{-3}*\sin^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 128/3*\ln(6)*F^{-3} \\
& - \sin^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 19/6912*\ln(6)^2*F^{-3}*\cos^2*\pi^{-4}*m83^{-2} + 37/6912*\ln(6)^2*F^{-3} \\
& - \sin^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 13/648*\ln(6)^2*F^{-3}*\sin^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/72*\ln(6)^2*F^{-3} \\
& - \sin^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 203/82944*\ln(6)*\ln(8)*F^{-3}*\cos^2*\pi^{-4}*m83^{-2} + 691/248832*\ln(6)*\ln(8)*F^{-3} \\
& - \sin^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/288*\ln(6)*\ln(8)*F^{-3}*\sin^2*\cos^2*\pi^{-4}*m83^{-2} - 11/576*\ln(6)*\ln(8)*F^{-3} \\
& - \sin^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 121/2592*\ln(6)*\ln(8)*F^{-3}*\sin^4*\cos^2*\pi^{-4}*m83^{-2} + 151/7776*\ln(6)*\ln(8)*F^{-3} \\
& - \sin^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/216*\ln(6)*\ln(8)*F^{-3}*\sin^6*\cos^2*\pi^{-4}*m83^{-2} - 1/216*\ln(6)*\ln(8)*F^{-3} \\
& - \sin^7*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/9*\ln(8)*F^{-3}*\cos^2*\pi^{-2}*L8r*m83^{-2} + 35/27*\ln(8)*F^{-3}*\cos^2*\pi^{-2} \\
& - 2*L7r*m83^{-2} + 5/81*\ln(8)*F^{-3}*\cos^2*\pi^{-2}*L5r*m83^{-2} - 2/27*\ln(8)*F^{-3}*\cos^2*\pi^{-2}*L4r*m83^{-2} + 116/81*\ln(8)*F^{-3} \\
& - \sin^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} + 44/9*\ln(8)*F^{-3}*\sin^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2 - 4/27*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} - 4/81*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2} \\
& *L5r*m83^{-2} - 4/27*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} - 424/27*\ln(8)*F^{-3} \\
& *3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} - 416/9*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2} \\
& *L7r*m83^{-2} - 8/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} - 4/81*\ln(8)*F^{-3} \\
& *3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} - 4/9*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} \\
& - 2 + 1264/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} + 3776/27*\ln(8)*F^{-3} \\
& *3*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} + 16/27*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2} \\
& *L6r*m83^{-2} - 8/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-2} - 8/27*\ln(8)*F^{-3} \\
& *3*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-2} - 640/27*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2} \\
& *L8r*m83^{-2} - 640/9*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-2} - 1/10368*\ln(8)^2*F^{-3} \\
& *3*\cos x*\pi^{-4}*m83^{-2} - 11/15552*\ln(8)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + \\
& 95/15552*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 223/7776*\ln(8)^2*F^{-3} \\
& *3*\sin x^4*\cos x*\pi^{-4}*m83^{-2} + 25/972*\ln(8)^2*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} \\
& - 2 - 1/162*\ln(8)^2*F^{-3}*\sin x^8*\cos x*\pi^{-4}*m83^{-2} + 29/11520/(mass(3))*\ln(3)^2*F^{-3} \\
& *3*\cos x*\pi^{-4}*m83^{-1} - 347/77760/(mass(3))*\ln(3)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& *4*m83^{-1} + 289/38880/(mass(3))*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - \\
& 1/486/(mass(3))*\ln(3)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 25/6912/(mass(4))*\ln(4)^2*F^{-3} \\
& *3*\cos x*\pi^{-4}*m83^{-1} + 341/55296/(mass(4))*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& *4*m83^{-1} + 61/13824/(mass(4))*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - \\
& 11/1536/(mass(4))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 25/6912/(mass(5))*\ln(4)^2*F^{-3} \\
& *3*\cos x*\pi^{-4}*m83^{-1} + 341/55296/(mass(5))*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& *4*m83^{-1} + 61/13824/(mass(5))*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - \\
& 11/1536/(mass(5))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 31/6144/(mass(6))*\ln(6)^2*F^{-3} \\
& *3*\cos x*\pi^{-4}*m83^{-1} - 2161/276480/(mass(6))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& *4*m83^{-1} + 61/13824/(mass(6))*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + \\
& 11/1536/(mass(6))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 101/18432/(mass(7))*\ln(6)^2*F^{-3} \\
& *3*\cos x*\pi^{-4}*m83^{-1} - 2161/276480/(mass(7))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& *4*m83^{-1} + 61/13824/(mass(7))*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + \\
& 11/1536/(mass(7))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 79/103680/(mass(8))*\ln(8)^2*F^{-3} \\
& *3*\cos x*\pi^{-4}*m83^{-1} + 1/972/(mass(8))*\ln(8)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4} \\
& *4*m83^{-1} + 131/38880/(mass(8))*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + \\
& 1/486/(mass(8))*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1}) \\
& + \text{mud}^2*\text{mpp}^2*\text{mkp}^2 * (+ 7/5184/(mass(3))*\ln(3)^2*F^{-3}*\cos x*\pi^{-4} \\
& *4*m83^{-2} - 29/7776/(mass(3))*\ln(3)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + \\
& 1/972/(mass(3))*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 1/1728/(mass(4))*\ln(4)^2*F^{-3} \\
& *3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/576/(mass(6))*\ln(6)^2*F^{-3}*\cos x*\pi^{-4} \\
& *4*m83^{-2} - 1/216/(mass(6))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - \\
& 1/5184/(mass(8))*\ln(8)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} + 1/3888/(mass(8))*\ln(8)^2*F^{-3} \\
& *3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/972/(mass(8))*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4} \\
& *4*m83^{-2}) \\
& + \text{mud}^2*\text{mpp}^2 * (- 5/3456*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 5/20736*F^{-3} \\
& *3*\cos x*\pi^{-2}*m83^{-2} + 9472/27*F^{-3}*\cos x*L8r^2*m83^{-2} + 1792*F^{-3} \\
& *3*\cos x*L7r*L8r*m83^{-2} + 6656/3*F^{-3}*\cos x*L7r^2*m83^{-2} - 256/9*F^{-3} \\
& *3*\cos x*L6r*L8r*m83^{-2} - 256/3*F^{-3}*\cos x*L6r*L7r*m83^{-2} + 1664/27*F^{-3} \\
& *3*\cos x*L5r*L8r*m83^{-2} + 1664/9*F^{-3}*\cos x*L5r*L7r*m83^{-2} + 128/9*F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\cos x^*L4r^*L8r^*m83^{\wedge}-2 + 128/3^*F^{\wedge}-3^*\cos x^*L4r^*L7r^*m83^{\wedge}-2 + 5/3456^*F^{\wedge}- \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 5/20736^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*m83^{\wedge}-2 + \\
& 256^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L8r^{\wedge}2^*m83^{\wedge}-2 + 17152/9^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L7r^*L8r^*m83^{\wedge}- \\
& 2 + 10240/3^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L7r^{\wedge}2^*m83^{\wedge}-2 - 256/9^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L6r^*L8r^*m83^{\wedge}- \\
& 2 - 256/3^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L6r^*L7r^*m83^{\wedge}-2 - 1408/27^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L5r^*L8r^*m83^{\wedge}- \\
& 2 - 1408/9^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L5r^*L7r^*m83^{\wedge}-2 + 128/9^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L4r^*L8r^*m83^{\wedge}- \\
& 2 + 128/3^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*L4r^*L7r^*m83^{\wedge}-2 - 133120/27^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L8r^{\wedge}2^*m83^{\wedge}- \\
& 2 - 88064/3^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L7r^*L8r^*m83^{\wedge}-2 - 131072/3^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L7r^{\wedge}2^*m83^{\wedge}- \\
& 2 - 2048/9^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L6r^*L8r^*m83^{\wedge}-2 - 2048/3^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L6r^*L7r^*m83^{\wedge}- \\
& 2 + 1024/27^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L5r^*L8r^*m83^{\wedge}-2 + 1024/9^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L5r^*L7r^*m83^{\wedge}- \\
& 2 + 1024/9^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L4r^*L8r^*m83^{\wedge}-2 + 1024/3^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*L4r^*L7r^*m83^{\wedge}- \\
& 2 + 65536/9^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*L8r^{\wedge}2^*m83^{\wedge}-2 + 131072/3^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*L7r^*L8r^*m83^{\wedge}- \\
& 2 + 65536^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*L7r^{\wedge}2^*m83^{\wedge}-2 - 8/9^*C^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}- \\
& 2^*L8r^*m83^{\wedge}-2 - 8/3^*C^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 + 8/9^*C^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}- \\
& 2^*L8r^*m83^{\wedge}-2 + 8/3^*C^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 + 1/864^*C^*\ln(1)^*F^{\wedge}- \\
& 3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 1/432^*C^*\ln(1)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 + \\
& 5/10368^*C^*\ln(3)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 7/10368^*C^*\ln(3)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 - 1/1296^*C^*\ln(3)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/1728^*C^*\ln(6)^*F^{\wedge}- \\
& 3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/1728^*C^*\ln(6)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}- \\
& 2 + 7/10368^*C^*\ln(8)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 5/10368^*C^*\ln(8)^*F^{\wedge}- \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/1296^*C^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}- \\
& 2 - 7/27^*\ln(1)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 - 1/3^*\ln(1)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}- \\
& 2^*L7r^*m83^{\wedge}-2 + 1/9^*\ln(1)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 - 1/9^*\ln(1)^*F^{\wedge}- \\
& 3^*\cos x^*\pi^{\wedge}-2^*L5r^*m83^{\wedge}-2 + 1/18^*\ln(1)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-2^*L4r^*m83^{\wedge}-2 - \\
& 49/81^*\ln(1)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 - 71/27^*\ln(1)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}- \\
& 2^*L7r^*m83^{\wedge}-2 + 5/27^*\ln(1)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 + 2/27^*\ln(1)^*F^{\wedge}- \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L5r^*m83^{\wedge}-2 + 1/6^*\ln(1)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L4r^*m83^{\wedge}- \\
& 2 + 4/27^*\ln(1)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 + 8/9^*\ln(1)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 - 4/9^*\ln(1)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L6r^*m83^{\wedge}- \\
& 2 + 2/27^*\ln(1)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L5r^*m83^{\wedge}-2 + 2/9^*\ln(1)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L4r^*m83^{\wedge}-2 - 32/9^*\ln(1)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}- \\
& 2^*L8r^*m83^{\wedge}-2 - 32/3^*\ln(1)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 - 5/13824^*\ln(1)^{\wedge}2^*F^{\wedge}- \\
& 3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 11/41472^*\ln(1)^*\ln(3)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 - \\
& 1/15552^*\ln(1)^*\ln(3)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 5/2592^*\ln(1)^*\ln(3)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/216^*\ln(1)^*\ln(3)^*F^{\wedge}-3^*\sin x^{\wedge}6^*\cos x^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 - 5/13824^*\ln(1)^*\ln(4)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 53/41472^*\ln(1)^*\ln(4)^*F^{\wedge}- \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 1/1728^*\ln(1)^*\ln(4)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 - 7/1728^*\ln(1)^*\ln(4)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/288^*\ln(1)^*\ln(4)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/288^*\ln(1)^*\ln(4)^*F^{\wedge}-3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 + 1/768^*\ln(1)^*\ln(6)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 7/20736^*\ln(1)^*\ln(6)^*F^{\wedge}- \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 1/1728^*\ln(1)^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 + 7/1728^*\ln(1)^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/288^*\ln(1)^*\ln(6)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 1/288^*\ln(1)^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 + 1/41472^*\ln(1)^*\ln(8)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/1296^*\ln(1)^*\ln(8)^*F^{\wedge}- \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 17/2592^*\ln(1)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 - 1/216^*\ln(1)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}6^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 40/81^*\ln(3)^*F^{\wedge}-
\end{aligned}$$

$$\begin{aligned}
& 3^*\cos x^*\pi^{-2}*L8r^*m83^{-2} - 71/54*\ln(3)*F^{-3}*\cos x^*\pi^{-2}*L7r^*m83^{-2} + \\
& 1/27*\ln(3)*F^{-3}*\cos x^*\pi^{-2}*L6r^*m83^{-2} - 13/324*\ln(3)*F^{-3}*\cos x^*\pi^{-2} \\
& *L5r^*m83^{-2} - 1/6*\ln(3)*F^{-3}*\sin x^*\sqrt{3}*\pi^{-2}*L8r^*m83^{-2} - 41/54*\ln(3)*F^{-3} \\
& *\sin x^*\sqrt{3}*\pi^{-2}*L7r^*m83^{-2} + 1/54*\ln(3)*F^{-3}*\sin x^*\sqrt{3}*\pi^{-2}*L6r^*m83^{-2} \\
& - 2 + 1/27*\ln(3)*F^{-3}*\sin x^*\sqrt{3}*\pi^{-2}*L5r^*m83^{-2} + 1/108*\ln(3)*F^{-3} \\
& *\sin x^*\sqrt{3}*\pi^{-2}*L4r^*m83^{-2} + 484/81*\ln(3)*F^{-3}*\sin x^2*\cos x^*\pi^{-2} \\
& *L8r^*m83^{-2} + 476/27*\ln(3)*F^{-3}*\sin x^2*\cos x^*\pi^{-2}*L7r^*m83^{-2} + \\
& 4/27*\ln(3)*F^{-3}*\sin x^2*\cos x^*\pi^{-2}*L6r^*m83^{-2} + 2/27*\ln(3)*F^{-3}*\sin x^2*\cos x^*\pi^{-2} \\
& *L4r^*m83^{-2} - 104/27*\ln(3)*F^{-3}*\sin x^4*\cos x^*\pi^{-2}*L8r^*m83^{-2} - 320/27*\ln(3)*F^{-3} \\
& *\sin x^4*\cos x^*\pi^{-2}*L7r^*m83^{-2} + 8/27*\ln(3)*F^{-3}*\sin x^4*\cos x^*\pi^{-2} \\
& *L6r^*m83^{-2} - 4/81*\ln(3)*F^{-3}*\sin x^4*\cos x^*\pi^{-2}*L5r^*m83^{-2} - 4/27*\ln(3)*F^{-3} \\
& *\sin x^4*\cos x^*\pi^{-2}*L4r^*m83^{-2} - 128/27*\ln(3)*F^{-3}*\sin x^6*\cos x^*\pi^{-2} \\
& *L8r^*m83^{-2} - 128/9*\ln(3)*F^{-3}*\sin x^6*\cos x^*\pi^{-2}*L7r^*m83^{-2} + 25/165888*\ln(3)^2*F^{-3} \\
& *\cos x^*\pi^{-4}*m83^{-2} - 19/10368*\ln(3)^2*F^{-3}*\sin x^2*\cos x^*\pi^{-4}*m83^{-2} - \\
& 7/3888*\ln(3)^2*F^{-3}*\sin x^4*\cos x^*\pi^{-4}*m83^{-2} + 11/1944*\ln(3)^2*F^{-3} \\
& *\sin x^6*\cos x^*\pi^{-4}*m83^{-2} - 1/648*\ln(3)^2*F^{-3}*\sin x^8*\cos x^*\pi^{-4}*m83^{-2} \\
& + 1/27648*\ln(3)*\ln(4)*F^{-3}*\cos x^*\pi^{-4}*m83^{-2} + 287/248832*\ln(3)*\ln(4)*F^{-3} \\
& *\sin x^*\sqrt{3}*\pi^{-4}*m83^{-2} - 119/20736*\ln(3)*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-4} \\
& *m83^{-2} - 217/62208*\ln(3)*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} + \\
& 13/2592*\ln(3)*\ln(4)*F^{-3}*\sin x^4*\cos x^*\pi^{-4}*m83^{-2} + 37/7776*\ln(3)*\ln(4)*F^{-3} \\
& *\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/432*\ln(3)*\ln(4)*F^{-3}*\sin x^6*\cos x^*\pi^{-4} \\
& *m83^{-2} - 1/432*\ln(3)*\ln(4)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/1728*\ln(3)*\ln(6)*F^{-3} \\
& *\cos x^*\pi^{-4}*m83^{-2} - 37/62208*\ln(3)*\ln(6)*F^{-3}*\sin x^*\sqrt{3}*\pi^{-4}*m83^{-2} - \\
& 119/20736*\ln(3)*\ln(6)*F^{-3}*\sin x^2*\cos x^*\pi^{-4}*m83^{-2} + 217/62208*\ln(3)*\ln(6)*F^{-3} \\
& *\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 13/2592*\ln(3)*\ln(6)*F^{-3}*\sin x^4*\cos x^*\pi^{-4} \\
& *m83^{-2} - 37/7776*\ln(3)*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/432*\ln(3)*\ln(6)*F^{-3} \\
& *\sin x^6*\cos x^*\pi^{-4}*m83^{-2} + 1/432*\ln(3)*\ln(6)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4} \\
& *m83^{-2} + 1/3072*\ln(3)*\ln(8)*F^{-3}*\cos x^*\pi^{-4}*m83^{-2} + 13/62208*\ln(3)*\ln(8)*F^{-3} \\
& *\sin x^*\sqrt{3}*\pi^{-4}*m83^{-2} - 65/15552*\ln(3)*\ln(8)*F^{-3}*\sin x^2*\cos x^*\pi^{-4} \\
& *m83^{-2} + 11/1296*\ln(3)*\ln(8)*F^{-3}*\sin x^4*\cos x^*\pi^{-4}*m83^{-2} - 5/972*\ln(3)*\ln(8)*F^{-3} \\
& *\sin x^6*\cos x^*\pi^{-4}*m83^{-2} + 1/324*\ln(3)*\ln(8)*F^{-3}*\sin x^8*\cos x^*\pi^{-4} \\
& *m83^{-2} + 1/9*\ln(4)*F^{-3}*\cos x^*\pi^{-2}*L8r^*m83^{-2} + 4/9*\ln(4)*F^{-3} \\
& *\cos x^*\pi^{-2}*L7r^*m83^{-2} - 1/9*\ln(4)*F^{-3}*\cos x^*\pi^{-2}*L6r^*m83^{-2} + \\
& 1/54*\ln(4)*F^{-3}*\cos x^*\pi^{-2}*L5r^*m83^{-2} + 1/18*\ln(4)*F^{-3}*\cos x^*\pi^{-2} \\
& *L4r^*m83^{-2} - 148/81*\ln(4)*F^{-3}*\sin x^*\sqrt{3}*\pi^{-2}*L8r^*m83^{-2} - 148/27*\ln(4)*F^{-3} \\
& *\sin x^*\sqrt{3}*\pi^{-2}*L7r^*m83^{-2} + 28/3*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-2}*L8r^*m83^{-2} \\
& - 2 + 248/9*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-2}*L7r^*m83^{-2} + 4/9*\ln(4)*F^{-3} \\
& *\sin x^2*\cos x^*\pi^{-2}*L6r^*m83^{-2} - 2/27*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-2} \\
& *L5r^*m83^{-2} - 2/9*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-2}*L4r^*m83^{-2} + 280/81*\ln(4)*F^{-3} \\
& *\sin x^3*\sqrt{3}*\pi^{-2}*L8r^*m83^{-2} + 280/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-2} \\
& *L7r^*m83^{-2} - 112/9*\ln(4)*F^{-3}*\sin x^4*\cos x^*\pi^{-2}*L8r^*m83^{-2} - 112/3*\ln(4)*F^{-3} \\
& *\sin x^4*\cos x^*\pi^{-2}*L7r^*m83^{-2} - 16/9*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2} \\
& *L8r^*m83^{-2} - 16/3*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r^*m83^{-2} - 1/13824*\ln(4)^2*F^{-3} \\
& *\cos x^*\pi^{-4}*m83^{-2} + 1/864*\ln(4)^2*F^{-3}*\sin x^*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& - 1/192*\ln(4)^2*F^{-3}*\sin x^2*\cos x^*\pi^{-4}*m83^{-2} - 7/5184*\ln(4)^2*F^{-3} \\
& *\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/144*\ln(4)^2*F^{-3}*\sin x^4*\cos x^*\pi^{-4}*m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2 + 1/13824*\ln(4)*\ln(6)*F^{-3*\cos x*\pi^{-4}*m83^{-2}} - 1/41472*\ln(4)*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 11/1728*\ln(4)*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 1/144*\ln(4)*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} \\
& - 11/82944*\ln(4)*\ln(8)*F^{-3*\cos x*\pi^{-4}*m83^{-2}} + 305/248832*\ln(4)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 137/20736*\ln(4)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} - 7/6912*\ln(4)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& + 29/2592*\ln(4)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} - 19/7776*\ln(4)*\ln(8)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 1/432*\ln(4)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} + 1/432*\ln(4)*\ln(8)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 19/18*\ln(6)*F^{-3*\cos x*\pi^{-2}*L8r*m83^{-2}} - 28/9*\ln(6)*F^{-3*\cos x*\pi^{-2}*L7r*m83^{-2}} \\
& + 1/18*\ln(6)*F^{-3*\cos x*\pi^{-2}*L6r*m83^{-2}} - 1/36*\ln(6)*F^{-3*\cos x*\pi^{-2}*L5r*m83^{-2}} \\
& - 5/36*\ln(6)*F^{-3*\cos x*\pi^{-2}*L4r*m83^{-2}} + 187/162*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} \\
& + 32/9*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} - 7/54*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2}} \\
& + 1/36*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2}} - 7/36*\ln(6)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2}} \\
& + 28/3*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2}} + 248/9*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2}} \\
& + 4/9*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2}} - 2/27*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2}} \\
& - 2/9*\ln(6)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2}} - 280/81*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} \\
& - 280/27*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} - 112/9*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2}} \\
& - 112/3*\ln(6)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2}} + 16/9*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} \\
& + 16/3*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} + 1/2304*\ln(6)^2*F^{-3*\cos x*\pi^{-4}*m83^{-2}} \\
& - 17/13824*\ln(6)^2*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} - 1/192*\ln(6)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} \\
& + 7/5184*\ln(6)^2*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} + 1/144*\ln(6)^2*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} \\
& + 1/1296*\ln(6)*\ln(8)*F^{-3*\cos x*\pi^{-4}*m83^{-2}} - 53/62208*\ln(6)*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 137/20736*\ln(6)*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}} + 7/6912*\ln(6)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& + 29/2592*\ln(6)*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-4}*m83^{-2}} + 19/7776*\ln(6)*\ln(8)*F^{-3*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 1/432*\ln(6)*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-4}*m83^{-2}} - 1/432*\ln(6)*\ln(8)*F^{-3*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2}} \\
& - 11/27*\ln(8)*F^{-3*\cos x*\pi^{-2}*L8r*m83^{-2}} - 53/54*\ln(8)*F^{-3*\cos x*\pi^{-2}*L7r*m83^{-2}} \\
& - 13/324*\ln(8)*F^{-3*\cos x*\pi^{-2}*L6r*m83^{-2}} - 1/54*\ln(8)*F^{-3*\cos x*\pi^{-2}*L5r*m83^{-2}} \\
& - 79/162*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2}} - 91/54*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2}} \\
& + 5/162*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2}} + 1/162*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-2}} \\
& - 1/36*\ln(8)*F^{-3*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2}} + 188/27*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2}} \\
& + 188/9*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2}} + 4/27*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2}} \\
& - 4/81*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2}} - 2/9*\ln(8)*F^{-3*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2}} \\
& - 136/9*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2}} - 1216/27*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2}} \\
& - 8/27*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-2}} + 4/81*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-2}} \\
& + 4/27*\ln(8)*F^{-3*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-2}} + 128/27*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-2}} \\
& + 128/9*\ln(8)*F^{-3*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-2}} + 17/165888*\ln(8)^2*F^{-3*\cos x*\pi^{-4}*m83^{-2}} \\
& + 13/62208*\ln(8)^2*F^{-3*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2}} - 77/31104*\ln(8)^2*F^{-3*\sin x^2*\cos x*\pi^{-4}*m83^{-2}}
\end{aligned}$$

$$\begin{aligned}
& 2 + 11/1944*\ln(8)^2F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 1/1944*\ln(8)^2F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} - 1/648*\ln(8)^2F^{-3}*\sin x^8*\cos x*\pi^{-4}*m83^{-2} \\
& + 17/18432/(mass(1))*\ln(1)^2F^{-3}*\cos x*\pi^{-4}*m83^{-1} - 101/276480/(mass(1))*\ln(1)^2F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 5/9216/(mass(1))*\ln(1)^2F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 13/18432/(mass(2))*\ln(1)^2F^{-3}*\cos x*\pi^{-4}*m83^{-1} - 61/276480/(mass(2))*\ln(1)^2F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 5/9216/(mass(2))*\ln(1)^2F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 91/138240/(mass(3))*\ln(3)^2F^{-3}*\cos x*\pi^{-4}*m83^{-1} + 1237/1244160/(mass(3))*\ln(3)^2F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 169/155520/(mass(3))*\ln(3)^2F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 1/972/(mass(3))*\ln(3)^2F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 7/18432/(mass(4))*\ln(4)^2F^{-3}*\cos x*\pi^{-4}*m83^{-1} - 61/36864/(mass(4))*\ln(4)^2F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 19/13824/(mass(4))*\ln(4)^2F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 61/27648/(mass(4))*\ln(4)^2F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 7/18432/(mass(5))*\ln(4)^2F^{-3}*\cos x*\pi^{-4}*m83^{-1} - 61/36864/(mass(5))*\ln(4)^2F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 19/13824/(mass(5))*\ln(4)^2F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 61/27648/(mass(5))*\ln(4)^2F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 263/221184/(mass(6))*\ln(6)^2F^{-3}*\cos x*\pi^{-4}*m83^{-1} + 2719/1105920/(mass(6))*\ln(6)^2F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 19/13824/(mass(6))*\ln(6)^2F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 61/27648/(mass(6))*\ln(6)^2F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 263/221184/(mass(7))*\ln(6)^2F^{-3}*\cos x*\pi^{-4}*m83^{-1} + 311/122880/(mass(7))*\ln(6)^2F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 19/13824/(mass(7))*\ln(6)^2F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 61/27648/(mass(7))*\ln(6)^2F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 13/414720/(mass(8))*\ln(8)^2F^{-3}*\cos x*\pi^{-4}*m83^{-1} + 383/1244160/(mass(8))*\ln(8)^2F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 251/155520/(mass(8))*\ln(8)^2F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 1/972/(mass(8))*\ln(8)^2F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1}) \\
& + mud^2*mpp2^2*mkp2 * (+ 1/1728/(mass(1))*\ln(1)^2F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 1/1728/(mass(1))*\ln(1)^2F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/10368/(mass(3))*\ln(3)^2F^{-3}*\cos x*\pi^{-4}*m83^{-2} + 35/31104/(mass(3))*\ln(3)^2F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 5/3888/(mass(3))*\ln(3)^2F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 1/1728/(mass(6))*\ln(6)^2F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 1/864/(mass(6))*\ln(6)^2F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/10368/(mass(8))*\ln(8)^2F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 35/31104/(mass(8))*\ln(8)^2F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/3888/(mass(8))*\ln(8)^2F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2}) \\
& + mud^2*mpp2^3 * (- 1/1728/(mass(1))*\ln(1)^2F^{-3}*\cos x*\pi^{-4}*m83^{-2} + 1/864/(mass(1))*\ln(1)^2F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 23/62208/(mass(3))*\ln(3)^2F^{-3}*\cos x*\pi^{-4}*m83^{-2} + 11/186624/(mass(3))*\ln(3)^2F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/23328/(mass(3))*\ln(3)^2F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} - 1/62208/(mass(8))*\ln(8)^2F^{-3}*\cos x*\pi^{-4}*m83^{-2} + 61/186624/(mass(8))*\ln(8)^2F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/23328/(mass(8))*\ln(8)^2F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2}) \\
& + mud^3 * (- 1253/663552F^{-3}*\cos x*\pi^{-4}*m83^{-1} - 293/995328F^{-3}*\cos x*\pi^{-2}*m83^{-1} - 5/18F^{-3}*\cos x*\pi^{-2}*L8r*m83^{-1} - 1/9F^{-3}*\cos x*\pi^{-2}*L7r*m83^{-1} - 5/18F^{-3}*\cos x*\pi^{-2}*L6r*m83^{-1} + 13/108F^{-3}*\cos x*\pi^{-2}*L5r*m83^{-1} + 5/36F^{-3}*\cos x*\pi^{-2}*L4r*m83^{-1} + 1/288F^{-3}*\cos x*\pi^{-2}*L3r*m83^{-1} + 64/9F^{-3}*\cos x*L5r*L8r*m83^{-1} + 64/3F^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^*\cos x^*L5r^*L7r^*m83^{\wedge-1} + 64/3^*F^{\wedge-3}*\cos x^*L4r^*L8r^*m83^{\wedge-1} + 64^*F^{\wedge-} \\
& 3^*\cos x^*L4r^*L7r^*m83^{\wedge-1} + 64/3^*F^{\wedge-3}*\cos x^*CC33^*m83^{\wedge-1} + 32/3^*F^{\wedge-} \\
& 3^*\cos x^*CC32^*m83^{\wedge-1} + 32/3^*F^{\wedge-3}*\cos x^*CC31^*m83^{\wedge-1} + 32/3^*F^{\wedge-3}*\cos x^*CC20^*m83^{\wedge-} \\
& 1 + 16^*F^{\wedge-3}*\cos x^*CC19^*m83^{\wedge-1} - 16/3^*F^{\wedge-3}*\cos x^*CC18^*m83^{\wedge-1} - 16/9^*F^{\wedge-} \\
& 3^*\cos x^*CC17^*m83^{\wedge-1} - 16/9^*F^{\wedge-3}*\cos x^*CC14^*m83^{\wedge-1} + 1253/1990656^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} + 293/2985984^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}^*m83^{\wedge-1} \\
& + 5/54^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}^*L8r^*m83^{\wedge-1} + 1/27^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*L7r^*m83^{\wedge-1} + 5/54^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}^*L6r^*m83^{\wedge-1} - 13/324^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-2}^*L5r^*m83^{\wedge-1} - 5/108^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}^*L4r^*m83^{\wedge-1} - \\
& 1/864^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}^*L3r^*m83^{\wedge-1} - 64/27^*F^{\wedge-3}*\sin x^*\sqrt{3}^*L5r^*L8r^*m83^{\wedge-} \\
& 1 - 64/9^*F^{\wedge-3}*\sin x^*\sqrt{3}^*L5r^*L7r^*m83^{\wedge-1} - 64/9^*F^{\wedge-3}*\sin x^*\sqrt{3}^*L4r^*L8r^*m83^{\wedge-} \\
& 1 - 64/3^*F^{\wedge-3}*\sin x^*\sqrt{3}^*L4r^*L7r^*m83^{\wedge-1} - 64/9^*F^{\wedge-3}*\sin x^*\sqrt{3}^*CC33^*m83^{\wedge-} \\
& 1 - 32/9^*F^{\wedge-3}*\sin x^*\sqrt{3}^*CC32^*m83^{\wedge-1} - 32/9^*F^{\wedge-3}*\sin x^*\sqrt{3}^*CC31^*m83^{\wedge-1} \\
& - 32/9^*F^{\wedge-3}*\sin x^*\sqrt{3}^*CC20^*m83^{\wedge-1} - 16/3^*F^{\wedge-3}*\sin x^*\sqrt{3}^*CC19^*m83^{\wedge-1} + \\
& 16/9^*F^{\wedge-3}*\sin x^*\sqrt{3}^*CC18^*m83^{\wedge-1} + 16/27^*F^{\wedge-3}*\sin x^*\sqrt{3}^*CC17^*m83^{\wedge-1} \\
& + 16/27^*F^{\wedge-3}*\sin x^*\sqrt{3}^*CC14^*m83^{\wedge-1} + 1253/248832^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-} \\
& 4^*m83^{\wedge-1} + 293/373248^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}^*m83^{\wedge-1} + 20/27^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}^*L8r^*m83^{\wedge-1} + 8/27^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}^*L7r^*m83^{\wedge-1} \\
& + 20/27^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}^*L6r^*m83^{\wedge-1} - 26/81^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-} \\
& 2^*L5r^*m83^{\wedge-1} - 10/27^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}^*L4r^*m83^{\wedge-1} - 1/108^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}^*L3r^*m83^{\wedge-1} - 512/27^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*L5r^*L8r^*m83^{\wedge-1} \\
& - 512/9^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*L5r^*L7r^*m83^{\wedge-1} - 512/9^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*L4r^*L8r^*m83^{\wedge-} \\
& 1 - 512/3^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*L4r^*L7r^*m83^{\wedge-1} - 512/9^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*CC33^*m83^{\wedge-} \\
& 1 - 256/9^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*CC32^*m83^{\wedge-1} - 256/9^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*CC31^*m83^{\wedge-} \\
& 1 - 256/9^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*CC20^*m83^{\wedge-1} - 128/3^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*CC19^*m83^{\wedge-} \\
& 1 + 128/9^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*CC18^*m83^{\wedge-1} + 128/27^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*CC17^*m83^{\wedge-} \\
& 1 + 128/27^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*CC14^*m83^{\wedge-1} - 2/9^*C^*F^{\wedge-3}*\cos x^*\pi^{\wedge-} \\
& 2^*L8r^*m83^{\wedge-1} - 2/3^*C^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}^*L7r^*m83^{\wedge-1} + 2/27^*C^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-} \\
& 2^*L8r^*m83^{\wedge-1} + 2/9^*C^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}^*L7r^*m83^{\wedge-1} + 16/27^*C^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}^*L8r^*m83^{\wedge-1} + 16/9^*C^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}^*L7r^*m83^{\wedge-} \\
& 1 + 11/23040^*C^*\ln(3)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} - 43/207360^*C^*\ln(3)^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} - 23/25920^*C^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-} \\
& 1 - 1/1296^*C^*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} + 1/3456^*C^*\ln(4)^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} - 1/1728^*C^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} \\
& - 1/1728^*C^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} + 1/2304^*C^*\ln(6)^*F^{\wedge-} \\
& 3^*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} - 1/2304^*C^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} - \\
& 1/1728^*C^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} + 1/1728^*C^*\ln(6)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} - 13/69120^*C^*\ln(8)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} + \\
& 23/207360^*C^*\ln(8)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} + 1/8640^*C^*\ln(8)^*F^{\wedge-} \\
& 3^*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} + 1/1296^*C^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-} \\
& 4^*m83^{\wedge-1} - 1/20736^*\ln(3)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-4}^*m83^{\wedge-1} - 23/54^*\ln(3)^*F^{\wedge-} \\
& 3^*\cos x^*\pi^{\wedge-2}^*L8r^*m83^{\wedge-1} - 5/6^*\ln(3)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}^*L7r^*m83^{\wedge-1} - \\
& 1/9^*\ln(3)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}^*L6r^*m83^{\wedge-1} + 1/27^*\ln(3)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-} \\
& 2^*L5r^*m83^{\wedge-1} + 1/24^*\ln(3)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}^*L4r^*m83^{\wedge-1} + 1/20736^*\ln(3)^*F^{\wedge-} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-4}^*m83^{\wedge-1} + 16/81^*\ln(3)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}^*L8r^*m83^{\wedge-} \\
& 1 + 19/54^*\ln(3)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}^*L7r^*m83^{\wedge-1} + 2/27^*\ln(3)^*F^{\wedge-}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-1} - 5/216*\ln(3)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-1} \\
& - 1/36*\ln(3)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-1} - 1/7776*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} \\
& + 44/81*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-1} + 32/27*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-1} \\
& - 1/81*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-1} + 1/1944*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} \\
& + 136/81*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-1} + 32/9*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-1} \\
& + 16/27*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-1} - 14/81*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-1} - 2/9*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-1} \\
& - 64/81*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-1} - 64/27*\ln(3)^*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-1} + 11/55296*\ln(3)^{\wedge 2} *F^{\wedge-3}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} \\
& - 55/497664*\ln(3)^{\wedge 2} *F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} *m83^{\wedge-1} - 47/248832*\ln(3)^{\wedge 2} *F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} - 7/15552*\ln(3)^{\wedge 2} *F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} \\
& - 17/15552*\ln(3)^{\wedge 2} *F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} + 1/972*\ln(3)^{\wedge 2} *F^{\wedge-3}*\sin x^{\wedge 8}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} - 389/1658880*\ln(3)^*\ln(4)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} \\
& + 1321/4976640*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} *m83^{\wedge-1} - 1/69120*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} + 29/207360*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} *m83^{\wedge-1} \\
& - 23/15552*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} *m83^{\wedge-1} + 1/1296*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} + 1/864*\ln(3)^*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 7}*\sqrt{3}^*\pi^{\wedge-4} *m83^{\wedge-1} \\
& + 107/1658880*\ln(3)^*\ln(6)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} - 559/4976640*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} *m83^{\wedge-1} - 1/69120*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} - 29/207360*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} *m83^{\wedge-1} \\
& + 23/15552*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} *m83^{\wedge-1} + 1/1296*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} - 1/864*\ln(3)^*\ln(6)^*F^{\wedge-3}*\sin x^{\wedge 7}*\sqrt{3}^*\pi^{\wedge-4} *m83^{\wedge-1} \\
& + 1/82944*\ln(3)^*\ln(8)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} + 7/248832*\ln(3)^*\ln(8)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} *m83^{\wedge-1} - 1/13824*\ln(3)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} - 1/972*\ln(3)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 4}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} \\
& + 25/7776*\ln(3)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 6}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} - 1/486*\ln(3)^*\ln(8)^*F^{\wedge-3}*\sin x^{\wedge 8}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} - 11/55296*\ln(4)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} - 1/2*\ln(4)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-1} - \ln(4)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-1} + 1/12*\ln(4)^*F^{\wedge-3}*\cos x^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-1} + 19/55296*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-4} *m83^{\wedge-1} + 1/9*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-1} + 7/18*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-1} - 2/9*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-1} - 1/54*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-1} + 1/12*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-1} + 1/72*\ln(4)^*F^{\wedge-3}*\sin x^*\sqrt{3}^*\pi^{\wedge-2}*\text{L3r}^*m83^{\wedge-1} + 34/27*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1} + 2*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-1} + 4/9*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-1} - 13/54*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-1} - 1/6*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-1} - 1/36*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 2}*\cos x^*\pi^{\wedge-2}*\text{L3r}^*m83^{\wedge-1} - 89/124416*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-4} *m83^{\wedge-1} + 34/81*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-1} + 22/27*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-1} + 4/9*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L6r}^*m83^{\wedge-1} - 1/54*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L5r}^*m83^{\wedge-1} - 1/6*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L4r}^*m83^{\wedge-1} - 1/36*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 3}*\sqrt{3}^*\pi^{\wedge-2}*\text{L3r}^*m83^{\wedge-1} + 1/3888*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-4} *m83^{\wedge-1} - 40/81*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-2}*\text{L8r}^*m83^{\wedge-1} - 40/27*\ln(4)^*F^{\wedge-3}*\sin x^{\wedge 5}*\sqrt{3}^*\pi^{\wedge-2}*\text{L7r}^*m83^{\wedge-1} + 5/55296*\ln(4)^{\wedge 2} *F^{\wedge-3}*\cos x^*\pi^{\wedge-4} *m83^{\wedge-1}
\end{aligned}$$

$$\begin{aligned}
& 1 - 11/165888*\ln(4)^2*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 23/41472*\ln(4)^2*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 17/41472*\ln(4)^2*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 5/3456*\ln(4)^2*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 5/10368*\ln(4)^2*\text{F}^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} - 13/55296*\ln(4)*\ln(6)*\text{F}^{-3}*\cos x*\pi^{-4}*m83^{-1} + 43/165888*\ln(4)*\ln(6)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 17/20736*\ln(4)*\ln(6)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 5/1728*\ln(4)*\ln(6)*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 391/1658880*\ln(4)*\ln(8)*\text{F}^{-3}*\cos x*\pi^{-4}*m83^{-1} + 539/4976640*\ln(4)*\ln(8)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 223/207360*\ln(4)*\ln(8)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 607/622080*\ln(4)*\ln(8)*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 11/5184*\ln(4)*\ln(8)*\text{F}^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/1296*\ln(4)*\ln(8)*\text{F}^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} - 1/864*\ln(4)*\ln(8)*\text{F}^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/6912*\ln(6)*\text{F}^{-3}*\cos x*\pi^{-4}*m83^{-1} - 4/9*\ln(6)*\text{F}^{-3}*\cos x*\pi^{-2}*L8r*m83^{-1} - 1/2*\ln(6)*\text{F}^{-3}*\cos x*\pi^{-2}*L7r*m83^{-1} - 1/3*\ln(6)*\text{F}^{-3}*\cos x*\pi^{-2}*L6r*m83^{-1} + 7/72*\ln(6)*\text{F}^{-3}*\cos x*\pi^{-2}*L5r*m83^{-1} + 1/8*\ln(6)*\text{F}^{-3}*\cos x*\pi^{-2}*L4r*m83^{-1} + 1/48*\ln(6)*\text{F}^{-3}*\cos x*\pi^{-2}*L3r*m83^{-1} - 1/3072*\ln(6)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 11/54*\ln(6)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} + 1/9*\ln(6)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} + 1/3*\ln(6)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} - 1/24*\ln(6)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} - 1/8*\ln(6)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} - 1/48*\ln(6)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} + 1/13824*\ln(6)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 34/27*\ln(6)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-1} + 2*\ln(6)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-1} + 4/9*\ln(6)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-1} - 13/54*\ln(6)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-1} - 1/6*\ln(6)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-1} - 1/36*\ln(6)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-2}*L3r*m83^{-1} + 89/124416*\ln(6)*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 34/81*\ln(6)*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} - 22/27*\ln(6)*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} - 4/9*\ln(6)*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L6r*m83^{-1} + 1/54*\ln(6)*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} + 1/6*\ln(6)*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L4r*m83^{-1} + 1/36*\ln(6)*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-2}*L3r*m83^{-1} - 1/3888*\ln(6)*\text{F}^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} + 40/81*\ln(6)*\text{F}^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} + 1/27648*\ln(6)^2*\text{F}^{-3}*\cos x*\pi^{-4}*m83^{-1} - 13/82944*\ln(6)^2*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 23/41472*\ln(6)^2*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 17/41472*\ln(6)^2*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 5/3456*\ln(6)^2*\text{F}^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} - 5/10368*\ln(6)^2*\text{F}^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} - 647/1658880*\ln(6)*\ln(8)*\text{F}^{-3}*\cos x*\pi^{-4}*m83^{-1} + 19/4976640*\ln(6)*\ln(8)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 223/207360*\ln(6)*\ln(8)*\text{F}^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 607/622080*\ln(6)*\ln(8)*\text{F}^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} - 11/5184*\ln(6)*\ln(8)*\text{F}^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-1} - 1/1296*\ln(6)*\ln(8)*\text{F}^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-1} + 1/864*\ln(6)*\ln(8)*\text{F}^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-1} - 5/41472*\ln(8)*\text{F}^{-3}*\cos x*\pi^{-4}*m83^{-1} - 5/18*\ln(8)*\text{F}^{-3}*\cos x*\pi^{-2}*L8r*m83^{-1} - 7/18*\ln(8)*\text{F}^{-3}*\cos x*\pi^{-2}*L7r*m83^{-1} - 1/9*\ln(8)*\text{F}^{-3}*\cos x*\pi^{-2}*L6r*m83^{-1} + 1/12*\ln(8)*\text{F}^{-3}*\cos x*\pi^{-2}*L5r*m83^{-1} + 1/24*\ln(8)*\text{F}^{-3}*\cos x*\pi^{-2}*L4r*m83^{-1} + 1/124416*\ln(8)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} + 1/27*\ln(8)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-1} + 1/18*\ln(8)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-1} - 11/648*\ln(8)*\text{F}^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L5r*m83^{-1} + 1/1728*\ln(8)*\text{F}^{-3}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 4/3 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-1} \\
& + 56/27 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-1} + 16/27 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-1} \\
& - 25/81 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-1} - 2/9 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-1} \\
& - 1/1944 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} - 136/81 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-1} \\
& - 32/9 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-1} - 16/27 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L6r * m83^{-1} \\
& + 14/81 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L5r * m83^{-1} + 2/9 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L4r * m83^{-1} \\
& + 64/81 * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L8r * m83^{-1} + 64/27 * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L7r * m83^{-1} \\
& + 17/165888 * \ln(8)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-1} - 11/497664 * \ln(8)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} \\
& - 143/248832 * \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 23/15552 * \ln(8)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} \\
& - 11/5184 * \ln(8)^2 * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-1} + 1/972 * \ln(8)^2 * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-1} \\
& - 77/552960 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \cos x * \pi^{-4} + 137/1105920 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} \\
& + 1/12960 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} + 1/6480 / (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} \\
& - 1/122880 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \cos x * \pi^{-4} - 1/40960 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} \\
& + 7/92160 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} + 1/18432 / (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} \\
& - 13/368640 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \cos x * \pi^{-4} - 17/1105920 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} \\
& + 41/276480 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} + 1/18432 / (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} \\
& - 1/1280 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \cos x * \pi^{-4} - 29/368640 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} \\
& + 7/92160 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} - 1/18432 / (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} \\
& - 149/184320 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \cos x * \pi^{-4} - 77/1105920 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} \\
& + 41/276480 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} - 1/18432 / (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} \\
& - 241/276480 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \cos x * \pi^{-4} - 913/3317760 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} \\
& + 1/4320 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} - 1/6480 / (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} \\
& + \text{mud}^3 * \text{mkp2} * (+ 5/3456 * F^{-3} * \cos x * \pi^{-4} * m83^{-2} + 5/20736 * F^{-3} * \cos x * \pi^{-2} * m83^{-2} \\
& - 8704/27 * F^{-3} * \cos x * L8r^2 * m83^{-2} - 5120/3 * F^{-3} * \cos x * L7r * L8r * m83^{-2} - 6656/3 * F^{-3} * \cos x * L7r^2 * m83^{-2} \\
& + 1024/9 * F^{-3} * \cos x * L6r * L8r * m83^{-2} + 1024/3 * F^{-3} * \cos x * L6r * L7r * m83^{-2} - 2048/27 * F^{-3} * \cos x * L5r * L8r * m83^{-2} \\
& - 2048/9 * F^{-3} * \cos x * L5r * L7r * m83^{-2} - 512/9 * F^{-3} * \cos x * L4r * L8r * m83^{-2} - 512/3 * F^{-3} * \cos x * L4r * L7r * m83^{-2} \\
& - 5/3456 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} - 5/20736 * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * m83^{-2} - 512/9 * F^{-3} * \sin x * \sqrt{3} * L8r^2 * m83^{-2} \\
& - 5632/9 * F^{-3} * \sin x * \sqrt{3} * L7r * L8r * m83^{-2} - 4096/3 * F^{-3} * \sin x * \sqrt{3} * L7r^2 * m83^{-2} + 512/9 * F^{-3} * \sin x * \sqrt{3} * L6r * L8r * m83^{-2} \\
& + 512/3 * F^{-3} * \sin x * \sqrt{3} * L6r * L7r * m83^{-2} + 256/9 * F^{-3} * \sin x * \sqrt{3} * L5r * L8r * m83^{-2} + 256/3 * F^{-3} * \sin x * \sqrt{3} * L5r * L7r * m83^{-2} \\
& + 256/3 * F^{-3} * \sin x * \sqrt{3} * L4r * L8r * m83^{-2} + 256 * F^{-3} * \sin x * \sqrt{3} * L4r * L7r * m83^{-2} + 114688/81 * F^{-3} * \sin x^2 * \cos x * L8r^2 * m83^{-2} \\
& + 81920/9 * F^{-3} * \sin x^2 * \cos x * L7r * L8r * m83^{-2} + 131072/9 * F^{-3} * \sin x^2 * \cos x * L7r^2 * m83^{-2} - 16384/27 * F^{-3} * \sin x^2 * \cos x * L6r * L8r * m83^{-2} \\
& - 16384/9 * F^{-3} * \sin x^2 * \cos x * L6r * L7r * m83^{-2} + 8192/81 * F^{-3} * \sin x^2 * \cos x * L5r * L8r * m83^{-2} + 8192/27 * F^{-3} * \sin x^2 * \cos x * L5r * L7r * m83^{-2} \\
& + 8192/27 * F^{-3} * \sin x^2 * \cos x * L4r * L8r * m83^{-2} + 8192/9 * F^{-3} * \sin x^2 * \cos x * L4r * L7r * m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2 - 65536/27 * F^{-3} * \sin^4 * \cos^2 * L8r^2 * m83^{-2} - 131072/9 * F^{-3} * \sin^4 * \cos^2 * L7r * L8r * m83^{-2} \\
& - 65536/3 * F^{-3} * \sin^4 * \cos^2 * L7r^2 * m83^{-2} + 8/9 * C * F^{-3} * \cos^2 * \pi^{-2} * L8r * m83^{-2} + 8/3 * C * F^{-3} * \cos^2 * \pi^{-2} * L7r * m83^{-2} - 8/9 * C * F^{-3} * \sin^2 * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} - 8/3 * C * F^{-3} * \sin^2 * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} - 1/5184 * C * \ln(3) * F^{-3} * \cos^2 * \pi^{-4} * m83^{-2} + 1/1728 * C * \ln(3) * F^{-3} * \sin^2 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/486 * C * \ln(3) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-2} - 1/1728 * C * \ln(4) * F^{-3} * \cos^2 * \pi^{-4} * m83^{-2} + 1/1728 * C * \ln(4) * F^{-3} * \sin^2 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/864 * C * \ln(6) * F^{-3} * \cos^2 * \pi^{-4} * m83^{-2} + 1/864 * C * \ln(6) * F^{-3} * \sin^2 * \sqrt{3} * \pi^{-4} * m83^{-2} - 5/5184 * C * \ln(8) * F^{-3} * \cos^2 * \pi^{-4} * m83^{-2} + 1/1728 * C * \ln(8) * F^{-3} * \sin^2 * \sqrt{3} * \pi^{-4} * m83^{-2} + 1/486 * C * \ln(8) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-2} + 52/81 * \ln(3) * F^{-3} * \cos^2 * \pi^{-2} * L8r * m83^{-2} + 52/27 * \ln(3) * F^{-3} * \cos^2 * \pi^{-2} * L7r * m83^{-2} - 4/27 * \ln(3) * F^{-3} * \cos^2 * \pi^{-2} * L6r * m83^{-2} + 4/81 * \ln(3) * F^{-3} * \cos^2 * \pi^{-2} * L5r * m83^{-2} - 20/81 * \ln(3) * F^{-3} * \sin^2 * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} - 16/27 * \ln(3) * F^{-3} * \sin^2 * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} + 1/27 * \ln(3) * F^{-3} * \sin^2 * \sqrt{3} * \pi^{-2} * L6r * m83^{-2} - 1/27 * \ln(3) * F^{-3} * \sin^2 * \sqrt{3} * \pi^{-2} * L5r * m83^{-2} - 1/18 * \ln(3) * F^{-3} * \sin^2 * \sqrt{3} * \pi^{-2} * L4r * m83^{-2} - 160/243 * \ln(3) * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L8r * m83^{-2} - 224/81 * \ln(3) * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L7r * m83^{-2} + 32/81 * \ln(3) * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L6r * m83^{-2} + 16/81 * \ln(3) * F^{-3} * \sin^2 * \cos^2 * \pi^{-2} * L4r * m83^{-2} - 320/81 * \ln(3) * F^{-3} * \sin^4 * \cos^2 * \pi^{-2} * L8r * m83^{-2} - 1024/81 * \ln(3) * F^{-3} * \sin^4 * \cos^2 * \pi^{-2} * L7r * m83^{-2} + 64/81 * \ln(3) * F^{-3} * \sin^4 * \cos^2 * \pi^{-2} * L6r * m83^{-2} - 32/243 * \ln(3) * F^{-3} * \sin^4 * \cos^2 * \pi^{-2} * L5r * m83^{-2} - 32/81 * \ln(3) * F^{-3} * \sin^4 * \cos^2 * \pi^{-2} * L4r * m83^{-2} + 512/81 * \ln(3) * F^{-3} * \sin^6 * \cos^2 * \pi^{-2} * L8r * m83^{-2} + 512/27 * \ln(3) * F^{-3} * \sin^6 * \cos^2 * \pi^{-2} * L7r * m83^{-2} - 1/5184 * \ln(3) * F^{-3} * \cos^2 * \pi^{-4} * m83^{-2} + 23/124416 * \ln(3) * F^{-3} * \sin^2 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/3888 * \ln(3) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-2} + 2/729 * \ln(3) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-2} - 1/243 * \ln(3) * F^{-3} * \sin^8 * \cos^2 * \pi^{-4} * m83^{-2} + 1/13824 * \ln(3) * \ln(4) * F^{-3} * \cos^2 * \pi^{-4} * m83^{-2} - 65/186624 * \ln(3) * \ln(4) * F^{-3} * \sin^2 * \sqrt{3} * \pi^{-4} * m83^{-2} + 7/7776 * \ln(3) * \ln(4) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-2} - 37/23328 * \ln(3) * \ln(4) * F^{-3} * \sin^3 * \sqrt{3} * \pi^{-4} * m83^{-2} + 1/216 * \ln(3) * \ln(4) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m83^{-2} + 47/5832 * \ln(3) * \ln(4) * F^{-3} * \sin^5 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/162 * \ln(3) * \ln(4) * F^{-3} * \sin^6 * \cos^2 * \pi^{-4} * m83^{-2} - 1/162 * \ln(3) * \ln(4) * F^{-3} * \sin^7 * \sqrt{3} * \pi^{-4} * m83^{-2} - 59/41472 * \ln(3) * \ln(6) * F^{-3} * \cos^2 * \pi^{-4} * m83^{-2} + 155/186624 * \ln(3) * \ln(6) * F^{-3} * \sin^2 * \sqrt{3} * \pi^{-4} * m83^{-2} + 7/7776 * \ln(3) * \ln(6) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-2} + 37/23328 * \ln(3) * \ln(6) * F^{-3} * \sin^3 * \sqrt{3} * \pi^{-4} * m83^{-2} + 1/216 * \ln(3) * \ln(6) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m83^{-2} - 47/5832 * \ln(3) * \ln(6) * F^{-3} * \sin^5 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/162 * \ln(3) * \ln(6) * F^{-3} * \sin^6 * \cos^2 * \pi^{-4} * m83^{-2} + 1/162 * \ln(3) * \ln(6) * F^{-3} * \sin^7 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/2592 * \ln(3) * \ln(8) * F^{-3} * \cos^2 * \pi^{-4} * m83^{-2} - 1/15552 * \ln(3) * \ln(8) * F^{-3} * \sin^2 * \sqrt{3} * \pi^{-4} * m83^{-2} + 7/5832 * \ln(3) * \ln(8) * F^{-3} * \sin^2 * \cos^2 * \pi^{-4} * m83^{-2} + 1/243 * \ln(3) * \ln(8) * F^{-3} * \sin^4 * \cos^2 * \pi^{-4} * m83^{-2} - 10/729 * \ln(3) * \ln(8) * F^{-3} * \sin^6 * \cos^2 * \pi^{-4} * m83^{-2} + 2/243 * \ln(3) * \ln(8) * F^{-3} * \sin^8 * \cos^2 * \pi^{-4} * m83^{-2} - 11/54 * \ln(4) * F^{-3} * \cos^2 * \pi^{-2} * L8r * m83^{-2} - 8/9 * \ln(4) * F^{-3} * \cos^2 * \pi^{-2} * L7r * m83^{-2} + 1/6 * \ln(4) * F^{-3} * \cos^2 * \pi^{-2} * L6r * m83^{-2} - 1/108 * \ln(4) * F^{-3} * \cos^2 * \pi^{-2} * L5r * m83^{-2} + 1/36 * \ln(4) * F^{-3} * \cos^2 * \pi^{-2} * L4r * m83^{-2} + 827/486 * \ln(4) * F^{-3} * \sin^2 * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} +
\end{aligned}$$

$$\begin{aligned}
& 460/81*\ln(4)*F^{-3*\sin x*\sqrt{3}*pi^{-2}*L7r*m83^{-2}} - 7/18*\ln(4)*F^{-3*\sin x*\sqrt{3}*pi^{-2}} \\
& - 2*L6r*m83^{-2} + 11/324*\ln(4)*F^{-3*\sin x*\sqrt{3}*pi^{-2}*L5r*m83^{-2}} + \\
& 17/108*\ln(4)*F^{-3*\sin x*\sqrt{3}*pi^{-2}*L4r*m83^{-2}} - 272/81*\ln(4)*F^{-3*\sin x^2*\cos x*pi^{-2}} \\
& - 2*L8r*m83^{-2} - 32/3*\ln(4)*F^{-3*\sin x^2*\cos x*pi^{-2}*L7r*m83^{-2}} + 16/27*\ln(4)*F^{-3*\sin x^2*\cos x*pi^{-2}} \\
& - 2*L6r*m83^{-2} - 8/81*\ln(4)*F^{-3*\sin x^2*\cos x*pi^{-2}*L5r*m83^{-2}} - 8/27*\ln(4)*F^{-3*\sin x^2*\cos x*pi^{-2}} \\
& - 2*L4r*m83^{-2} - 1456/243*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*pi^{-2}*L8r*m83^{-2}} - 1504/81*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*pi^{-2}} \\
& - 2*L7r*m83^{-2} + 16/27*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*pi^{-2}*L6r*m83^{-2}} - 8/81*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*pi^{-2}} \\
& - 2*L5r*m83^{-2} - 8/27*\ln(4)*F^{-3*\sin x^3*\sqrt{3}*pi^{-2}*L4r*m83^{-2}} + 128/27*\ln(4)*F^{-3*\sin x^4*\cos x*pi^{-2}} \\
& - 2*L8r*m83^{-2} + 128/9*\ln(4)*F^{-3*\sin x^4*\cos x*pi^{-2}*L7r*m83^{-2}} + 128/27*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*pi^{-2}} \\
& - 2*L8r*m83^{-2} + 128/9*\ln(4)*F^{-3*\sin x^5*\sqrt{3}*pi^{-2}*L7r*m83^{-2}} + 7/4608*\ln(4)^2*F^{-3*\cos x*pi^{-4}*m83^{-2}} - 245/124416*\ln(4)^2*F^{-3*\sin x*\sqrt{3}*pi^{-4}*m83^{-2}} \\
& - 1/216*\ln(4)^2*F^{-3*\sin x^2*\cos x*pi^{-4}*m83^{-2}} + 25/3888*\ln(4)^2*F^{-3*\sin x^3*\sqrt{3}*pi^{-4}*m83^{-2}} + 1/216*\ln(4)^2*F^{-3*\sin x^4*\cos x*pi^{-4}*m83^{-2}} \\
& - 1/216*\ln(4)^2*F^{-3*\sin x^5*\sqrt{3}*pi^{-4}*m83^{-2}} - 11/4608*\ln(4)*\ln(6)*F^{-3*\cos x*pi^{-4}*m83^{-2}} - 1/4608*\ln(4)*\ln(6)*F^{-3*\sin x*\sqrt{3}*pi^{-4}*m83^{-2}} \\
& + 11/648*\ln(4)*\ln(6)*F^{-3*\sin x^2*\cos x*pi^{-4}*m83^{-2}} - 1/54*\ln(4)*\ln(6)*F^{-3*\sin x^4*\cos x*pi^{-4}*m83^{-2}} + 5/41472*\ln(4)*\ln(8)*F^{-3*\cos x*pi^{-4}*m83^{-2}} \\
& - 317/186624*\ln(4)*\ln(8)*F^{-3*\sin x*\sqrt{3}*pi^{-4}*m83^{-2}} + 25/7776*\ln(4)*F^{-3*\sin x^2*\cos x*pi^{-4}*m83^{-2}} + 71/7776*\ln(4)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*pi^{-4}*m83^{-2}} \\
& - 7/648*\ln(4)*\ln(8)*F^{-3*\sin x^4*\cos x*pi^{-4}*m83^{-2}} - 83/5832*\ln(4)*\ln(8)*F^{-3*\sin x^5*\sqrt{3}*pi^{-4}*m83^{-2}} + 1/162*\ln(4)*\ln(8)*F^{-3*\sin x^6*\cos x*pi^{-4}*m83^{-2}} \\
& + 1/162*\ln(4)*\ln(8)*F^{-3*\sin x^7*\sqrt{3}*pi^{-4}*m83^{-2}} + 79/54*\ln(6)*F^{-3*\cos x*pi^{-2}*L8r*m83^{-2}} + 38/9*\ln(6)*F^{-3*\cos x*pi^{-2}*L7r*m83^{-2}} \\
& - 7/18*\ln(6)*F^{-3*\cos x*pi^{-2}*L6r*m83^{-2}} + 17/108*\ln(6)*F^{-3*\cos x*pi^{-2}*L5r*m83^{-2}} + 1/12*\ln(6)*F^{-3*\cos x*pi^{-2}*L4r*m83^{-2}} \\
& - 665/486*\ln(6)*F^{-3*\sin x*\sqrt{3}*pi^{-2}*L8r*m83^{-2}} - 334/81*\ln(6)*F^{-3*\sin x*\sqrt{3}*pi^{-2}*L7r*m83^{-2}} + 5/18*\ln(6)*F^{-3*\sin x*\sqrt{3}*pi^{-2}*L6r*m83^{-2}} \\
& - 29/324*\ln(6)*F^{-3*\sin x*\sqrt{3}*pi^{-2}*L5r*m83^{-2}} - 35/108*\ln(6)*F^{-3*\sin x*\sqrt{3}*pi^{-2}*L4r*m83^{-2}} - 272/81*\ln(6)*F^{-3*\sin x^2*\cos x*pi^{-2}} \\
& - 2*L8r*m83^{-2} - 32/3*\ln(6)*F^{-3*\sin x^2*\cos x*pi^{-2}*L7r*m83^{-2}} + 16/27*\ln(6)*F^{-3*\sin x^2*\cos x*pi^{-2}*L6r*m83^{-2}} - 8/81*\ln(6)*F^{-3*\sin x^2*\cos x*pi^{-2}} \\
& - 2*L5r*m83^{-2} - 8/27*\ln(6)*F^{-3*\sin x^2*\cos x*pi^{-2}*L4r*m83^{-2}} + 1456/243*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*pi^{-2}*L8r*m83^{-2}} + 1504/81*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*pi^{-2}} \\
& - 2*L7r*m83^{-2} - 16/27*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*pi^{-2}*L6r*m83^{-2}} + 8/81*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*pi^{-2}*L5r*m83^{-2}} + 8/27*\ln(6)*F^{-3*\sin x^3*\sqrt{3}*pi^{-2}} \\
& - 2*L4r*m83^{-2} + 128/27*\ln(6)*F^{-3*\sin x^4*\cos x*pi^{-2}*L8r*m83^{-2}} + 128/9*\ln(6)*F^{-3*\sin x^4*\cos x*pi^{-2}*L7r*m83^{-2}} - 128/27*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*pi^{-2}} \\
& - 2*L8r*m83^{-2} - 128/9*\ln(6)*F^{-3*\sin x^5*\sqrt{3}*pi^{-2}*L7r*m83^{-2}} - 5/13824*\ln(6)^2*F^{-3*\cos x*pi^{-4}*m83^{-2}} + 109/62208*\ln(6)^2*F^{-3*\sin x*\sqrt{3}*pi^{-4}*m83^{-2}} \\
& - 1/216*\ln(6)^2*F^{-3*\sin x^2*\cos x*pi^{-4}*m83^{-2}} - 25/3888*\ln(6)^2*F^{-3*\sin x^3*\sqrt{3}*pi^{-4}*m83^{-2}} + 1/216*\ln(6)^2*F^{-3*\sin x^4*\cos x*pi^{-4}*m83^{-2}} \\
& + 1/216*\ln(6)^2*F^{-3*\sin x^5*\sqrt{3}*pi^{-4}*m83^{-2}} - 13/41472*\ln(6)*\ln(8)*F^{-3*\cos x*pi^{-4}*m83^{-2}} + 155/186624*\ln(6)*\ln(8)*F^{-3*\sin x*\sqrt{3}*pi^{-4}*m83^{-2}} \\
& - 2 + 25/7776*\ln(6)*\ln(8)*F^{-3*\sin x^2*\cos x*pi^{-4}*m83^{-2}} - 71/7776*\ln(6)*\ln(8)*F^{-3*\sin x^3*\sqrt{3}*pi^{-4}*m83^{-2}}
\end{aligned}$$

$$\begin{aligned}
& 3^* \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} - 7/648 * \ln(6) * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} + 83/5832 * \ln(6) * \ln(8) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} + \\
& 1/162 * \ln(6) * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} - 1/162 * \ln(6) * \ln(8) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-2} + 4/27 * \ln(8) * F^{-3} * \cos x * \pi^{-2} * L8r * m83^{-2} + \\
& 4/27 * \ln(8) * F^{-3} * \cos x * \pi^{-2} * L7r * m83^{-2} + 4/81 * \ln(8) * F^{-3} * \cos x * \pi^{-2} * L5r * m83^{-2} + 2/27 * \ln(8) * F^{-3} * \cos x * \pi^{-2} * L4r * m83^{-2} + 10/27 * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} + 4/3 * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L7r * m83^{-2} - \\
& 1/9 * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L6r * m83^{-2} - 1/18 * \ln(8) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L4r * m83^{-2} - 224/81 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-2} - 224/27 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-2} + 32/81 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-2} - 32/243 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-2} - 16/27 * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L4r * m83^{-2} + 832/81 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-2} + 2560/81 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-2} - 64/81 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L6r * m83^{-2} + 32/243 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L5r * m83^{-2} + 32/81 * \ln(8) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L4r * m83^{-2} - 512/81 * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L8r * m83^{-2} - 512/27 * \ln(8) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L7r * m83^{-2} + 1/10368 * \ln(8)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-2} - 23/124416 * \ln(8)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} + 13/11664 * \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 25/2916 * \ln(8)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} + 8/729 * \ln(8)^2 * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} - 1/243 * \ln(8)^2 * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-2} + 1/17280 * (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-1} - 73/124416 * (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 169/58320 * (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} + 2/729 * (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1} - 317/221184 * (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-1} + 769/663552 * (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} - 23/20736 * (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 23/20736 * (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} - 317/221184 * (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-1} + 769/663552 * (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} - 23/20736 * (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 23/20736 * (\text{mass}(5)) * \ln(4)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} + 109/221184 * (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-1} - 3659/3317760 * (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 61/20736 * (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 157/221184 * (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-1} + 157/221184 * (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-1} - 3419/3317760 * (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 61/20736 * (\text{mass}(7)) * \ln(6)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 23/51840 * (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-1} + 91/207360 * (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-1} + 251/58320 * (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-1} - 2/729 * (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-1}) \\
& + \text{mud}^3 * \text{mkp}2^2 * (+ 5/5184 * (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-2} - 49/31104 * (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} + 5/2916 * (\text{mass}(3)) * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} + 1/3456 * (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-2} - 1/3456 * (\text{mass}(4)) * \ln(4)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} + 5/3456 * (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-2} - 11/3456 * (\text{mass}(6)) * \ln(6)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} + 1/5184 * (\text{mass}(8)) * \ln(8)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-2})
\end{aligned}$$

$$\begin{aligned}
& 4^*m83^{-2} - 11/31104/(mass(8))^*ln(8)^2 * F^{-3} * sinx * sqrt3 * pi^{-4} * m83^{-2} - \\
& 5/2916/(mass(8))^*ln(8)^2 * F^{-3} * sinx^2 * cosx * pi^{-4} * m83^{-2}) \\
& + mud^3 * mpp2 * (- 5/3456 * F^{-3} * cosx * pi^{-4} * m83^{-2} - 5/20736 * F^{-3} * \\
& cosx * pi^{-2} * m83^{-2} + 10240/27 * F^{-3} * cosx * L8r^2 * m83^{-2} + 5632/3 * F^{-3} * \\
& cosx * L7r * L8r * m83^{-2} + 6656/3 * F^{-3} * cosx * L7r^2 * m83^{-2} + 512/9 * F^{-3} * \\
& cosx * L6r * L8r * m83^{-2} + 512/3 * F^{-3} * cosx * L6r * L7r * m83^{-2} + 1280/27 * F^{-3} * \\
& cosx * L5r * L8r * m83^{-2} + 1280/9 * F^{-3} * cosx * L5r * L7r * m83^{-2} - 256/9 * F^{-3} * \\
& cosx * L4r * L8r * m83^{-2} - 256/3 * F^{-3} * cosx * L4r * L7r * m83^{-2} + 5/3456 * F^{-3} * \\
& sinx * sqrt3 * pi^{-4} * m83^{-2} + 5/20736 * F^{-3} * sinx * sqrt3 * pi^{-2} * m83^{-2} + \\
& 1024/27 * F^{-3} * sinx * sqrt3 * L8r^2 * m83^{-2} + 5120/9 * F^{-3} * sinx * sqrt3 * L7r * L8r * m83^{-2} - \\
& 2 + 4096/3 * F^{-3} * sinx * sqrt3 * L7r^2 * m83^{-2} - 1024/9 * F^{-3} * sinx * sqrt3 * L6r * L8r * m83^{-2} - \\
& 1024/3 * F^{-3} * sinx * sqrt3 * L6r * L7r * m83^{-2} - 512/27 * F^{-3} * sinx * sqrt3 * L5r * L8r * m83^{-2} - \\
& 512/9 * F^{-3} * sinx * sqrt3 * L5r * L7r * m83^{-2} - 512/9 * F^{-3} * sinx * sqrt3 * L4r * L8r * m83^{-2} - \\
& 512/3 * F^{-3} * sinx * sqrt3 * L4r * L7r * m83^{-2} - 126976/81 * F^{-3} * sinx^2 * cosx * L8r^2 * m83^{-2} - \\
& 28672/3 * F^{-3} * sinx^2 * cosx * L7r * L8r * m83^{-2} - 131072/9 * F^{-3} * sinx^2 * cosx * L7r^2 * m83^{-2} - \\
& 2 + 4096/27 * F^{-3} * sinx^2 * cosx * L6r * L8r * m83^{-2} + 4096/9 * F^{-3} * sinx^2 * cosx * L6r * L7r * m83^{-2} - \\
& 2048/81 * F^{-3} * sinx^2 * cosx * L5r * L8r * m83^{-2} - 2048/27 * F^{-3} * sinx^2 * cosx * L5r * L7r * m83^{-2} - \\
& 2048/27 * F^{-3} * sinx^2 * cosx * L4r * L8r * m83^{-2} - 2048/9 * F^{-3} * sinx^2 * cosx * L4r * L7r * m83^{-2} - \\
& 2 + 65536/27 * F^{-3} * sinx^4 * cosx * L8r^2 * m83^{-2} + 131072/9 * F^{-3} * sinx^4 * cosx * L7r * L8r * m83^{-2} - \\
& 2 + 65536/3 * F^{-3} * sinx^4 * cosx * L7r^2 * m83^{-2} - 8/9 * C * F^{-3} * cosx * pi^{-2} * L8r * m83^{-2} - \\
& 8/3 * C * F^{-3} * cosx * pi^{-2} * L7r * m83^{-2} + 8/9 * C * F^{-3} * sinx * sqrt3 * pi^{-2} * L8r * m83^{-2} + \\
& 8/3 * C * F^{-3} * sinx * sqrt3 * pi^{-2} * L7r * m83^{-2} + 1/1728 * C * ln(1) * F^{-3} * cosx * pi^{-4} * m83^{-2} - \\
& 1/1728 * C * ln(1) * F^{-3} * sinx * sqrt3 * pi^{-4} * m83^{-2} + 1/1296 * C * ln(3) * F^{-3} * cosx * pi^{-4} * m83^{-2} - \\
& 1/1296 * C * ln(3) * F^{-3} * sinx * sqrt3 * pi^{-4} * m83^{-2} + 1/1944 * C * ln(3) * F^{-3} * sinx^2 * cosx * pi^{-4} * m83^{-2} + \\
& 1/864 * C * ln(6) * F^{-3} * cosx * pi^{-4} * m83^{-2} - 1/864 * C * ln(6) * F^{-3} * sinx * sqrt3 * pi^{-4} * m83^{-2} + \\
& 1/2592 * C * ln(8) * F^{-3} * cosx * pi^{-4} * m83^{-2} - 1/2592 * C * ln(8) * F^{-3} * sinx * sqrt3 * pi^{-4} * m83^{-2} - \\
& 1/1944 * C * ln(8) * F^{-3} * sinx^2 * cosx * pi^{-4} * m83^{-2} + 4/27 * ln(1) * F^{-3} * cosx * pi^{-2} * L8r * m83^{-2} + \\
& 2/3 * ln(1) * F^{-3} * cosx * pi^{-2} * L7r * m83^{-2} - 1/9 * ln(1) * F^{-3} * cosx * pi^{-2} * L6r * m83^{-2} - \\
& 1/18 * ln(1) * F^{-3} * cosx * pi^{-2} * L4r * m83^{-2} + 5/81 * ln(1) * F^{-3} * sinx * sqrt3 * pi^{-2} * L8r * m83^{-2} - \\
& 2/27 * ln(1) * F^{-3} * sinx * sqrt3 * pi^{-2} * L7r * m83^{-2} + 2/27 * ln(1) * F^{-3} * sinx * sqrt3 * pi^{-2} * L6r * m83^{-2} - \\
& 1/54 * ln(1) * F^{-3} * sinx * sqrt3 * pi^{-2} * L5r * m83^{-2} - 32/81 * ln(1) * F^{-3} * sinx^2 * cosx * pi^{-2} * L8r * m83^{-2} - \\
& 32/27 * ln(1) * F^{-3} * sinx^2 * cosx * pi^{-2} * L7r * m83^{-2} + 1/10368 * ln(1) * ln(3) * F^{-3} * cosx * pi^{-4} * m83^{-2} - \\
& 17/124416 * ln(1) * ln(3) * F^{-3} * sinx * sqrt3 * pi^{-4} * m83^{-2} - 1/5184 * ln(1) * ln(3) * F^{-3} * sinx^2 * cosx * pi^{-4} * m83^{-2} + \\
& 1/1944 * ln(1) * ln(3) * F^{-3} * sinx^4 * cosx * pi^{-4} * m83^{-2} - 1/5184 * ln(1) * ln(4) * F^{-3} * sinx * sqrt3 * pi^{-4} * m83^{-2} + \\
& 1/2592 * ln(1) * ln(4) * F^{-3} * sinx^2 * cosx * pi^{-4} * m83^{-2} + 1/2592 * ln(1) * ln(4) * F^{-3} * sinx^3 * sqrt3 * pi^{-4} * m83^{-2} - \\
& 1/2304 * ln(1) * ln(6) * F^{-3} * cosx * pi^{-4} * m83^{-2} + 1/3456 * ln(1) * ln(6) * F^{-3} * sinx * sqrt3 * pi^{-4} * m83^{-2} + \\
& 1/2592 * ln(1) * ln(6) * F^{-3} * sinx^2 * cosx * pi^{-4} * m83^{-2} - 1/2592 * ln(1) * ln(6) * F^{-3} * sinx^3 * sqrt3 * pi^{-4} * m83^{-2} - \\
& 5/20736 * ln(1) * ln(8) * F^{-3} * cosx * pi^{-4} * m83^{-2} + 1/41472 * ln(1) * ln(8) * F^{-3} * sinx * sqrt3 * pi^{-4} * m83^{-2} + \\
& 11/15552 * ln(1) * ln(8) * F^{-3} * sinx^2 * cosx * pi^{-4} * m83^{-2} - 1/1944 * ln(1) * ln(8) * F^{-3} * sinx^4 * cosx * pi^{-4} * m83^{-2} - \\
& 119/162 * ln(3) * F^{-3} * cosx * pi^{-2} * L8r * m83^{-2} - 101/54 * ln(3) * F^{-3} *
\end{aligned}$$

$$\begin{aligned}
& 3^*\cos x^*\pi^{-2}*L7r^*m83^{-2} - 2/27*\ln(3)*F^{-3}*\cos x^*\pi^{-2}*L6r^*m83^{-2} - \\
& 5/162*\ln(3)*F^{-3}*\cos x^*\pi^{-2}*L5r^*m83^{-2} + 22/81*\ln(3)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2} \\
& 2^*L8r^*m83^{-2} + 1/2*\ln(3)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L7r^*m83^{-2} + 5/54*\ln(3)*F^{-3} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{-2}*L6r^*m83^{-2} + 7/324*\ln(3)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L5r^*m83^{-2} \\
& 2 + 1/36*\ln(3)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L4r^*m83^{-2} + 340/243*\ln(3)*F^{-3} \\
& 3^*\sin x^2*\cos x^*\pi^{-2}*L8r^*m83^{-2} + 368/81*\ln(3)*F^{-3}*\sin x^2*\cos x^*\pi^{-2} \\
& 2^*L7r^*m83^{-2} - 20/81*\ln(3)*F^{-3}*\sin x^2*\cos x^*\pi^{-2}*L6r^*m83^{-2} + 2/81*\ln(3)*F^{-3} \\
& 3^*\sin x^2*\cos x^*\pi^{-2}*L5r^*m83^{-2} + 2/81*\ln(3)*F^{-3}*\sin x^2*\cos x^*\pi^{-2} \\
& 2^*L4r^*m83^{-2} + 40/27*\ln(3)*F^{-3}*\sin x^4*\cos x^*\pi^{-2}*L8r^*m83^{-2} + \\
& 352/81*\ln(3)*F^{-3}*\sin x^4*\cos x^*\pi^{-2}*L7r^*m83^{-2} + 8/81*\ln(3)*F^{-3}*\sin x^4*\cos x^*\pi^{-2} \\
& 2^*L6r^*m83^{-2} - 4/243*\ln(3)*F^{-3}*\sin x^4*\cos x^*\pi^{-2}*L5r^*m83^{-2} - 4/81*\ln(3)*F^{-3} \\
& 3^*\sin x^4*\cos x^*\pi^{-2}*L4r^*m83^{-2} - 320/81*\ln(3)*F^{-3}*\sin x^6*\cos x^*\pi^{-2} \\
& 2^*L8r^*m83^{-2} - 320/27*\ln(3)*F^{-3}*\sin x^6*\cos x^*\pi^{-2}*L7r^*m83^{-2} + \\
& 5/13824*\ln(3)^2*F^{-3}*\cos x^*\pi^{-4}*m83^{-2} - 29/124416*\ln(3)^2*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4} \\
& 4^*m83^{-2} - 5/31104*\ln(3)^2*F^{-3}*\sin x^2*\cos x^*\pi^{-4}*m83^{-2} - 61/46656*\ln(3)^2*F^{-3} \\
& 3^*\sin x^4*\cos x^*\pi^{-4}*m83^{-2} + 5/5832*\ln(3)^2*F^{-3}*\sin x^6*\cos x^*\pi^{-4}*m83^{-2} \\
& 2 + 1/972*\ln(3)^2*F^{-3}*\sin x^8*\cos x^*\pi^{-4}*m83^{-2} - 1/41472*\ln(3)*\ln(4)*F^{-3} \\
& 3^*\cos x^*\pi^{-4}*m83^{-2} + 61/93312*\ln(3)*\ln(4)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4}*m83^{-2} - \\
& 23/15552*\ln(3)*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-4}*m83^{-2} - 119/93312*\ln(3)*\ln(4)*F^{-3} \\
& 3^*\sin x^3*\sqrt{3}^*\pi^{-4}*m83^{-2} - 25/15552*\ln(3)*\ln(4)*F^{-3}*\sin x^4*\cos x^*\pi^{-4} \\
& 4^*m83^{-2} - 7/46656*\ln(3)*\ln(4)*F^{-3}*\sin x^5*\sqrt{3}^*\pi^{-4}*m83^{-2} + 5/1296*\ln(3)*\ln(4)*F^{-3} \\
& 3^*\sin x^6*\cos x^*\pi^{-4}*m83^{-2} + 1/1296*\ln(3)*\ln(4)*F^{-3}*\sin x^7*\sqrt{3}^*\pi^{-4} \\
& 4^*m83^{-2} + 91/82944*\ln(3)*\ln(6)*F^{-3}*\cos x^*\pi^{-4}*m83^{-2} - 611/746496*\ln(3)*\ln(6)*F^{-3} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{-4}*m83^{-2} - 23/15552*\ln(3)*\ln(6)*F^{-3}*\sin x^2*\cos x^*\pi^{-4} \\
& 4^*m83^{-2} - 119/93312*\ln(3)*\ln(6)*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-4}*m83^{-2} - \\
& 25/15552*\ln(3)*\ln(6)*F^{-3}*\sin x^4*\cos x^*\pi^{-4}*m83^{-2} + 7/46656*\ln(3)*\ln(6)*F^{-3} \\
& 3^*\sin x^5*\sqrt{3}^*\pi^{-4}*m83^{-2} + 5/1296*\ln(3)*\ln(6)*F^{-3}*\sin x^6*\cos x^*\pi^{-4} \\
& 4^*m83^{-2} - 1/1296*\ln(3)*\ln(6)*F^{-3}*\sin x^7*\sqrt{3}^*\pi^{-4}*m83^{-2} + 11/41472*\ln(3)*\ln(8)*F^{-3} \\
& 3^*\cos x^*\pi^{-4}*m83^{-2} + 1/13824*\ln(3)*\ln(8)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-4}*m83^{-2} - \\
& 65/46656*\ln(3)*\ln(8)*F^{-3}*\sin x^2*\cos x^*\pi^{-4}*m83^{-2} + 5/7776*\ln(3)*\ln(8)*F^{-3} \\
& 3^*\sin x^4*\cos x^*\pi^{-4}*m83^{-2} + 5/1458*\ln(3)*\ln(8)*F^{-3}*\sin x^6*\cos x^*\pi^{-4} \\
& 4^*m83^{-2} - 1/486*\ln(3)*\ln(8)*F^{-3}*\sin x^8*\cos x^*\pi^{-4}*m83^{-2} + 5/54*\ln(4)*F^{-3} \\
& 3^*\cos x^*\pi^{-2}*L8r^*m83^{-2} + 2/9*\ln(4)*F^{-3}*\cos x^*\pi^{-2}*L7r^*m83^{-2} + \\
& 1/18*\ln(4)*F^{-3}*\cos x^*\pi^{-2}*L6r^*m83^{-2} - 1/108*\ln(4)*F^{-3}*\cos x^*\pi^{-2} \\
& 2^*L5r^*m83^{-2} - 1/36*\ln(4)*F^{-3}*\cos x^*\pi^{-2}*L4r^*m83^{-2} - 587/486*\ln(4)*F^{-3} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{-2}*L8r^*m83^{-2} - 286/81*\ln(4)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L7r^*m83^{-2} \\
& 2 - 5/54*\ln(4)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L6r^*m83^{-2} + 5/324*\ln(4)*F^{-3} \\
& 3^*\sin x^*\sqrt{3}^*\pi^{-2}*L5r^*m83^{-2} + 5/108*\ln(4)*F^{-3}*\sin x^*\sqrt{3}^*\pi^{-2}*L4r^*m83^{-2} \\
& 2 + 92/27*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-2}*L8r^*m83^{-2} + 280/27*\ln(4)*F^{-3} \\
& 3^*\sin x^2*\cos x^*\pi^{-2}*L7r^*m83^{-2} - 4/27*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-2} \\
& 2^*L6r^*m83^{-2} + 2/81*\ln(4)*F^{-3}*\sin x^2*\cos x^*\pi^{-2}*L5r^*m83^{-2} + 2/27*\ln(4)*F^{-3} \\
& 3^*\sin x^2*\cos x^*\pi^{-2}*L4r^*m83^{-2} + 820/243*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-2} \\
& 2^*L8r^*m83^{-2} + 808/81*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-2}*L7r^*m83^{-2} + \\
& 4/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-2}*L6r^*m83^{-2} - 2/81*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-2} \\
& 2^*L5r^*m83^{-2} - 2/27*\ln(4)*F^{-3}*\sin x^3*\sqrt{3}^*\pi^{-2}*L4r^*m83^{-2} - 128/27*\ln(4)*F^{-3} \\
& 3^*\sin x^4*\cos x^*\pi^{-2}*L8r^*m83^{-2} - 128/9*\ln(4)*F^{-3}*\sin x^4*\cos x^*\pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2^*L7r^*m83^{-2} - 64/27*\ln(4)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-2}*L8r^*m83^{-2} - 64/9*\ln(4)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-2}*L7r^*m83^{-2} - 5/13824*\ln(4)^2*F^{-3}*\cosx*\pi^{-4}*m83^{-2} \\
& + 149/124416*\ln(4)^2*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/864*\ln(4)^2*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-2} - 13/3888*\ln(4)^2*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 1/432*\ln(4)^2*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-2} + 1/432*\ln(4)^2*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/1536*\ln(4)*\ln(6)*F^{-3}*\cosx*\pi^{-4}*m83^{-2} - \\
& 1/41472*\ln(4)*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-2} - 13/2592*\ln(4)*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-2} + 1/216*\ln(4)*\ln(6)*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-2} \\
& - 5/41472*\ln(4)*\ln(8)*F^{-3}*\cosx*\pi^{-4}*m83^{-2} + 179/186624*\ln(4)*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/1728*\ln(4)*\ln(8)*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-2} \\
& - 11/3456*\ln(4)*\ln(8)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 121/15552*\ln(4)*\ln(8)*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-2} + 151/46656*\ln(4)*\ln(8)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& - 5/1296*\ln(4)*\ln(8)*F^{-3}*\sinx^6*\cosx*\pi^{-4}*m83^{-2} - 1/1296*\ln(4)*\ln(8)*F^{-3}*\sinx^7*\sqrt{3}*\pi^{-4}*m83^{-2} - 25/18*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L8r^*m83^{-2} \\
& - 32/9*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L7r^*m83^{-2} - 1/18*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L6r^*m83^{-2} - 1/12*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L5r^*m83^{-2} + 5/36*\ln(6)*F^{-3}*\cosx*\pi^{-2}*L4r^*m83^{-2} \\
& + 377/486*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L8r^*m83^{-2} + 148/81*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L7r^*m83^{-2} + 13/54*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L6r^*m83^{-2} \\
& + 1/324*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L5r^*m83^{-2} + 7/108*\ln(6)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L4r^*m83^{-2} + 92/27*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L8r^*m83^{-2} + 280/27*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L7r^*m83^{-2} \\
& - 4/27*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L6r^*m83^{-2} + 2/81*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L5r^*m83^{-2} + 2/27*\ln(6)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L4r^*m83^{-2} - 820/243*\ln(6)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L8r^*m83^{-2} \\
& - 808/81*\ln(6)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L7r^*m83^{-2} - 4/27*\ln(6)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L6r^*m83^{-2} + 2/81*\ln(6)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L5r^*m83^{-2} + 2/27*\ln(6)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-2}*L4r^*m83^{-2} - 128/27*\ln(6)*F^{-3}*\sinx^4*\cosx*\pi^{-2}*L8r^*m83^{-2} \\
& + 64/27*\ln(6)*F^{-3}*\sinx^4*\cosx*\pi^{-2}*L7r^*m83^{-2} + 64/9*\ln(6)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-2}*L8r^*m83^{-2} + 13/13824*\ln(6)^2*F^{-3}*\cosx*\pi^{-4}*m83^{-2} - 43/62208*\ln(6)^2*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/864*\ln(6)^2*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-2} + 13/3888*\ln(6)^2*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 1/432*\ln(6)^2*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-2} - 1/432*\ln(6)^2*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}*m83^{-2} + 61/82944*\ln(6)*\ln(8)*F^{-3}*\cosx*\pi^{-4}*m83^{-2} - 221/746496*\ln(6)*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/1728*\ln(6)*\ln(8)*F^{-3}*\sinx^2*\cosx*\pi^{-4}*m83^{-2} + 11/3456*\ln(6)*\ln(8)*F^{-3}*\sinx^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 121/15552*\ln(6)*\ln(8)*F^{-3}*\sinx^4*\cosx*\pi^{-4}*m83^{-2} - 151/46656*\ln(6)*\ln(8)*F^{-3}*\sinx^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/1296*\ln(6)*\ln(8)*F^{-3}*\sinx^6*\cosx*\pi^{-4}*m83^{-2} + 1/1296*\ln(6)*\ln(8)*F^{-3}*\sinx^7*\sqrt{3}*\pi^{-4}*m83^{-2} - 5/18*\ln(8)*F^{-3}*\cosx*\pi^{-2}*L8r^*m83^{-2} - 35/54*\ln(8)*F^{-3}*\cosx*\pi^{-2}*L7r^*m83^{-2} - 5/162*\ln(8)*F^{-3}*\cosx*\pi^{-2}*L6r^*m83^{-2} + 1/27*\ln(8)*F^{-3}*\cosx*\pi^{-2}*L5r^*m83^{-2} - 26/81*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L8r^*m83^{-2} - 59/54*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L7r^*m83^{-2} + 1/18*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L6r^*m83^{-2} + 1/324*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L5r^*m83^{-2} + 5/108*\ln(8)*F^{-3}*\sinx*\sqrt{3}*\pi^{-2}*L4r^*m83^{-2} + 212/81*\ln(8)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L8r^*m83^{-2} + 208/27*\ln(8)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L7r^*m83^{-2} + 168/27*\ln(8)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L6r^*m83^{-2} + 168/27*\ln(8)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L5r^*m83^{-2} + 168/27*\ln(8)*F^{-3}*\sinx^2*\cosx*\pi^{-2}*L4r^*m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 3^{\text{sinx}^2 \text{cosx} \pi^{-2} L7r m83^{-2}} + 4/81 \ln(8) F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L6r m83^{-2}} \\
& + 2/243 \ln(8) F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L5r m83^{-2}} + 2/27 \ln(8) F^{-3 \text{sinx}^2 \text{cosx} \pi^{-2} L4r m83^{-2}} - 632/81 \ln(8) F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L8r m83^{-2}} \\
& - 1888/81 \ln(8) F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L7r m83^{-2}} - 8/81 \ln(8) F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L6r m83^{-2}} + 4/243 \ln(8) F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L5r m83^{-2}} \\
& + 4/81 \ln(8) F^{-3 \text{sinx}^4 \text{cosx} \pi^{-2} L4r m83^{-2}} + 320/81 \ln(8) F^{-3 \text{sinx}^6 \text{cosx} \pi^{-2} L8r m83^{-2}} \\
& + 320/27 \ln(8) F^{-3 \text{sinx}^6 \text{cosx} \pi^{-2} L7r m83^{-2}} + 1/20736 \ln(8)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-2}} + 5/31104 \ln(8)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-2}} \\
& - 95/93312 \ln(8)^2 F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-2}} - 25/5832 \ln(8)^2 F^{-3 \text{sinx}^4 \text{cosx} \pi^{-4} m83^{-2}} \\
& + 1/972 \ln(8)^2 F^{-3 \text{sinx}^8 \text{cosx} \pi^{-4} m83^{-2}} - 2 - 29/23040 / (\text{mass}(3)) \ln(3)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-1}} + 367/311040 / (\text{mass}(3)) \ln(3)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-1}} \\
& - 289/233280 / (\text{mass}(3)) \ln(3)^2 F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} + 1/2916 / (\text{mass}(3)) \ln(3)^2 F^{-3 \text{sinx}^4 \text{cosx} \pi^{-4} m83^{-1}} \\
& + 47/73728 / (\text{mass}(4)) \ln(4)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-1}} - 23/24576 / (\text{mass}(4)) \ln(4)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-1}} \\
& - 61/82944 / (\text{mass}(4)) \ln(4)^2 F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} + 11/9216 / (\text{mass}(4)) \ln(4)^2 F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-4} m83^{-1}} \\
& + 47/73728 / (\text{mass}(5)) \ln(4)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-1}} - 23/24576 / (\text{mass}(5)) \ln(4)^2 F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} \\
& + 11/9216 / (\text{mass}(5)) \ln(4)^2 F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-4} m83^{-1}} - 299/221184 / (\text{mass}(6)) \ln(6)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-1}} + 1583/1105920 / (\text{mass}(6)) \ln(6)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-1}} \\
& - 61/82944 / (\text{mass}(6)) \ln(6)^2 F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} - 11/9216 / (\text{mass}(6)) \ln(6)^2 F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-4} m83^{-1}} \\
& - 347/221184 / (\text{mass}(7)) \ln(6)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-1}} + 167/122880 / (\text{mass}(7)) \ln(6)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-1}} \\
& - 61/82944 / (\text{mass}(7)) \ln(6)^2 F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} - 11/9216 / (\text{mass}(7)) \ln(6)^2 F^{-3 \text{sinx}^3 \sqrt{3} \pi^{-4} m83^{-1}} \\
& - 79/207360 / (\text{mass}(8)) \ln(8)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-1}} - 37/103680 / (\text{mass}(8)) \ln(8)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-1}} \\
& - 131/233280 / (\text{mass}(8)) \ln(8)^2 F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-1}} - 1/2916 / (\text{mass}(8)) \ln(8)^2 F^{-3 \text{sinx}^4 \text{cosx} \pi^{-4} m83^{-1}} \\
& + \text{mud}^3 \text{mpp}2^{\text{mkp}2} * (- 7/5184 / (\text{mass}(3)) \ln(3)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-2}} + 65/31104 / (\text{mass}(3)) \ln(3)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-2}} \\
& - 1/2916 / (\text{mass}(3)) \ln(3)^2 F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-2}} - 1/576 / (\text{mass}(6)) \ln(6)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-2}} \\
& + 5/1728 / (\text{mass}(6)) \ln(6)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-2}} + 1/5184 / (\text{mass}(8)) \ln(8)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-2}} \\
& - 5/31104 / (\text{mass}(8)) \ln(8)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-2}} + 1/2916 / (\text{mass}(8)) \ln(8)^2 F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-2}} \\
& + \text{mud}^3 \text{mpp}2^2 * (- 1/3456 / (\text{mass}(1)) \ln(1)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-2}} + 1/3456 / (\text{mass}(1)) \ln(1)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-2}} \\
& - 1/20736 / (\text{mass}(3)) \ln(3)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-2}} - 23/62208 / (\text{mass}(3)) \ln(3)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-2}} \\
& - 5/23328 / (\text{mass}(3)) \ln(3)^2 F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-2}} + 1/3456 / (\text{mass}(6)) \ln(6)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-2}} \\
& + 1/3456 / (\text{mass}(6)) \ln(6)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-2}} + 1/20736 / (\text{mass}(8)) \ln(8)^2 F^{-3 \text{cosx} \pi^{-4} m83^{-2}} \\
& + 23/62208 / (\text{mass}(8)) \ln(8)^2 F^{-3 \text{sinx} \sqrt{3} \pi^{-4} m83^{-2}} + 5/23328 / (\text{mass}(8)) \ln(8)^2 F^{-3 \text{sinx}^2 \text{cosx} \pi^{-4} m83^{-2}} \\
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}^4 * (+ 256/27 * F^{-3} * \cos x * L8r^2 * m83^{-2} + 256/3 * F^{-3} * \cos x * L7r * L8r * m83^{-2} - \\
& - 2 + 512/3 * F^{-3} * \cos x * L7r^2 * m83^{-2} - 256/9 * F^{-3} * \cos x * L6r * L8r * m83^{-2} - \\
& - 256/3 * F^{-3} * \cos x * L6r * L7r * m83^{-2} + 128/27 * F^{-3} * \cos x * L5r * L8r * m83^{-2} + \\
& + 128/9 * F^{-3} * \cos x * L5r * L7r * m83^{-2} + 128/9 * F^{-3} * \cos x * L4r * L8r * m83^{-2} + \\
& + 128/3 * F^{-3} * \cos x * L4r * L7r * m83^{-2} + 1280/81 * F^{-3} * \sin x * \sqrt{3} * L8r^2 * m83^{-2} - \\
& + 256/3 * F^{-3} * \sin x * \sqrt{3} * L7r * L8r * m83^{-2} + 1024/9 * F^{-3} * \sin x * \sqrt{3} * L7r^2 * m83^{-2} \\
& + 256/27 * F^{-3} * \sin x * \sqrt{3} * L6r * L8r * m83^{-2} + 256/9 * F^{-3} * \sin x * \sqrt{3} * L6r * L7r * m83^{-2} \\
& - 128/81 * F^{-3} * \sin x * \sqrt{3} * L5r * L8r * m83^{-2} - 128/27 * F^{-3} * \sin x * \sqrt{3} * L5r * L7r * m83^{-2} \\
& - 128/27 * F^{-3} * \sin x * \sqrt{3} * L4r * L8r * m83^{-2} - 128/9 * F^{-3} * \sin x * \sqrt{3} * L4r * L7r * m83^{-2} \\
& - 14336/81 * F^{-3} * \sin x^2 * \cos x * L8r^2 * m83^{-2} - 10240/9 * F^{-3} * \sin x^2 * \cos x * L7r * L8r * m83^{-2} \\
& - 16384/9 * F^{-3} * \sin x^2 * \cos x * L7r^2 * m83^{-2} + 2048/27 * F^{-3} * \sin x^2 * \cos x * L6r * L8r * m83^{-2} \\
& + 2048/9 * F^{-3} * \sin x^2 * \cos x * L6r * L7r * m83^{-2} - 1024/81 * F^{-3} * \sin x^2 * \cos x * L5r * L8r * m83^{-2} \\
& - 1024/27 * F^{-3} * \sin x^2 * \cos x * L5r * L7r * m83^{-2} - 1024/27 * F^{-3} * \sin x^2 * \cos x * L4r * L8r * m83^{-2} \\
& - 1024/9 * F^{-3} * \sin x^2 * \cos x * L4r * L7r * m83^{-2} + 8192/27 * F^{-3} * \sin x^4 * \cos x * L8r^2 * m83^{-2} \\
& + 16384/9 * F^{-3} * \sin x^4 * \cos x * L7r * L8r * m83^{-2} + 8192/3 * F^{-3} * \sin x^4 * \cos x * L7r^2 * m83^{-2} \\
& - 1/10368 * C * \ln(3) * F^{-3} * \cos x * \pi^{-4} * m83^{-2} + 1/31104 * C * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} \\
& + 1/3888 * C * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} - 1/31104 * C * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& - 1/10368 * C * \ln(8) * F^{-3} * \cos x * \pi^{-4} * m83^{-2} - 1/3888 * C * \ln(8) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& - 5/162 * \ln(3) * F^{-3} * \cos x * \pi^{-2} * L8r * m83^{-2} - 4/27 * \ln(3) * F^{-3} * \cos x * \pi^{-2} * L7r * m83^{-2} \\
& + 1/27 * \ln(3) * F^{-3} * \cos x * \pi^{-2} * L6r * m83^{-2} - 1/324 * \ln(3) * F^{-3} * \cos x * \pi^{-2} * L5r * m83^{-2} \\
& - 2/243 * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L8r * m83^{-2} - 1/54 * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L6r * m83^{-2} \\
& + 1/486 * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L5r * m83^{-2} + 1/324 * \ln(3) * F^{-3} * \sin x * \sqrt{3} * \pi^{-2} * L4r * m83^{-2} \\
& + 20/243 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L8r * m83^{-2} + 28/81 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L7r * m83^{-2} \\
& - 4/81 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L6r * m83^{-2} - 2/81 * \ln(3) * F^{-3} * \sin x^2 * \cos x * \pi^{-2} * L5r * m83^{-2} \\
& + 128/81 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L8r * m83^{-2} + 4/243 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L7r * m83^{-2} \\
& - 8/81 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L6r * m83^{-2} + 4/243 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L5r * m83^{-2} \\
& + 4/81 * \ln(3) * F^{-3} * \sin x^4 * \cos x * \pi^{-2} * L4r * m83^{-2} - 64/81 * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L8r * m83^{-2} \\
& - 64/27 * \ln(3) * F^{-3} * \sin x^6 * \cos x * \pi^{-2} * L7r * m83^{-2} - 1/165888 * \ln(3)^2 * F^{-3} * \cos x * \pi^{-4} * m83^{-2} \\
& + 1/248832 * \ln(3)^2 * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} + 1/31104 * \ln(3)^2 * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& - 1/23328 * \ln(3)^2 * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} - 1/2916 * \ln(3)^2 * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} \\
& + 1/1944 * \ln(3)^2 * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-2} - 1/124416 * \ln(3) * \ln(4) * F^{-3} * \cos x * \pi^{-4} * m83^{-2} \\
& + 23/373248 * \ln(3) * \ln(4) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} - 7/62208 * \ln(3) * \ln(4) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& + 37/186624 * \ln(3) * \ln(4) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/1728 * \ln(3) * \ln(4) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} \\
& - 47/46656 * \ln(3) * \ln(4) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} + 1/1296 * \ln(3) * \ln(4) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} \\
& + 1/1296 * \ln(3) * \ln(4) * F^{-3} * \sin x^7 * \sqrt{3} * \pi^{-4} * m83^{-2} + 1/7776 * \ln(3) * \ln(6) * F^{-3} * \cos x * \pi^{-4} * m83^{-2} \\
& - 29/373248 * \ln(3) * \ln(6) * F^{-3} * \sin x * \sqrt{3} * \pi^{-4} * m83^{-2} - 7/62208 * \ln(3) * \ln(6) * F^{-3} * \sin x^2 * \cos x * \pi^{-4} * m83^{-2} \\
& - 37/186624 * \ln(3) * \ln(6) * F^{-3} * \sin x^3 * \sqrt{3} * \pi^{-4} * m83^{-2} - 1/1728 * \ln(3) * \ln(6) * F^{-3} * \sin x^4 * \cos x * \pi^{-4} * m83^{-2} \\
& + 47/46656 * \ln(3) * \ln(6) * F^{-3} * \sin x^5 * \sqrt{3} * \pi^{-4} * m83^{-2} + 1/1296 * \ln(3) * \ln(6) * F^{-3} * \sin x^6 * \cos x * \pi^{-4} * m83^{-2} \\
& - 1/1296 * \ln(3) * \ln(6) * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-2} - 1/1296 * \ln(3) * \ln(6) * F^{-3} * \sin x^8 * \cos x * \pi^{-4} * m83^{-2}
\end{aligned}$$

$$\begin{aligned}
& 3^*\sin x^{\wedge}7^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/27648^*\ln(3)^*\ln(8)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 \\
& + 1/93312^*\ln(3)^*\ln(8)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 7/46656^*\ln(3)^*\ln(8)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 1/1944^*\ln(3)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 + 5/2916^*\ln(3)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}6^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 1/972^*\ln(3)^*\ln(8)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}8^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/81^*\ln(4)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 + \\
& 1/27^*\ln(4)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 - 56/243^*\ln(4)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}- \\
& 2^*L8r^*m83^{\wedge}-2 - 59/81^*\ln(4)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 + 1/27^*\ln(4)^*F^{\wedge}- \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 - 1/162^*\ln(4)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L5r^*m83^{\wedge}- \\
& 2 - 1/54^*\ln(4)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L4r^*m83^{\wedge}-2 + 34/81^*\ln(4)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 + 4/3^*\ln(4)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}- \\
& 2^*L7r^*m83^{\wedge}-2 - 2/27^*\ln(4)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 + 1/81^*\ln(4)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L5r^*m83^{\wedge}-2 + 1/27^*\ln(4)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}- \\
& 2^*L4r^*m83^{\wedge}-2 + 182/243^*\ln(4)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 \\
& + 188/81^*\ln(4)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 - 2/27^*\ln(4)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 + 1/81^*\ln(4)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}- \\
& 2^*L5r^*m83^{\wedge}-2 + 1/27^*\ln(4)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-2^*L4r^*m83^{\wedge}-2 - 16/27^*\ln(4)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 - 16/9^*\ln(4)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}- \\
& 2^*L7r^*m83^{\wedge}-2 - 16/27^*\ln(4)^*F^{\wedge}-3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 - 16/9^*\ln(4)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 - 1/5184^*\ln(4)^{\wedge}2^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 \\
& + 31/124416^*\ln(4)^{\wedge}2^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/1728^*\ln(4)^{\wedge}2^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 25/31104^*\ln(4)^{\wedge}2^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 - 1/1728^*\ln(4)^{\wedge}2^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/1728^*\ln(4)^{\wedge}2^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 5/13824^*\ln(4)^*\ln(6)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 \\
& + 1/41472^*\ln(4)^*\ln(6)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 11/5184^*\ln(4)^*\ln(6)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 1/432^*\ln(4)^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 - 1/124416^*\ln(4)^*\ln(8)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 83/373248^*\ln(4)^*\ln(8)^*F^{\wedge}- \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 25/62208^*\ln(4)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 - 71/62208^*\ln(4)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 + \\
& 7/5184^*\ln(4)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-4^*m83^{\wedge}-2 + 83/46656^*\ln(4)^*\ln(8)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 1/1296^*\ln(4)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}6^*\cos x^*\pi^{\wedge}- \\
& 4^*m83^{\wedge}-2 - 1/1296^*\ln(4)^*\ln(8)^*F^{\wedge}-3^*\sin x^{\wedge}7^*\sqrt{3}^*\pi^{\wedge}-4^*m83^{\wedge}-2 - 17/162^*\ln(6)^*F^{\wedge}- \\
& 3^*\cos x^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 - 10/27^*\ln(6)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 \\
& + 1/18^*\ln(6)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 - 1/108^*\ln(6)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}- \\
& 2^*L5r^*m83^{\wedge}-2 - 1/36^*\ln(6)^*F^{\wedge}-3^*\cos x^*\pi^{\wedge}-2^*L4r^*m83^{\wedge}-2 + 91/486^*\ln(6)^*F^{\wedge}- \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 + 50/81^*\ln(6)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}- \\
& 2 - 1/18^*\ln(6)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 + 1/108^*\ln(6)^*F^{\wedge}- \\
& 3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L5r^*m83^{\wedge}-2 + 1/36^*\ln(6)^*F^{\wedge}-3^*\sin x^*\sqrt{3}^*\pi^{\wedge}-2^*L4r^*m83^{\wedge}- \\
& 2 + 34/81^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 + 4/3^*\ln(6)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 - 2/27^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}- \\
& 2^*L6r^*m83^{\wedge}-2 + 1/81^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L5r^*m83^{\wedge}-2 + 1/27^*\ln(6)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}2^*\cos x^*\pi^{\wedge}-2^*L4r^*m83^{\wedge}-2 - 182/243^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}- \\
& 2^*L8r^*m83^{\wedge}-2 - 188/81^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-2^*L7r^*m83^{\wedge}-2 + \\
& 2/27^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-2^*L6r^*m83^{\wedge}-2 - 1/81^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}- \\
& 2^*L5r^*m83^{\wedge}-2 - 1/27^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}3^*\sqrt{3}^*\pi^{\wedge}-2^*L4r^*m83^{\wedge}-2 - 16/27^*\ln(6)^*F^{\wedge}- \\
& 3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 - 16/9^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}4^*\cos x^*\pi^{\wedge}- \\
& 2^*L7r^*m83^{\wedge}-2 + 16/27^*\ln(6)^*F^{\wedge}-3^*\sin x^{\wedge}5^*\sqrt{3}^*\pi^{\wedge}-2^*L8r^*m83^{\wedge}-2 +
\end{aligned}$$

$$\begin{aligned}
& 16/9*\ln(6)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} - 1/41472*\ln(6)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 31/124416*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 1/1728*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 25/31104*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/1728*\ln(6)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} \\
& - 1/1728*\ln(6)^2*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/62208*\ln(6)*\ln(8)*F^{-3}*\cos x*\pi^{-4}*m83^{-2} - 53/373248*\ln(6)*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& - 25/62208*\ln(6)*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 71/62208*\ln(6)*\ln(8)*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-2} + 7/5184*\ln(6)*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} \\
& - 83/46656*\ln(6)*\ln(8)*F^{-3}*\sin x^5*\sqrt{3}*\pi^{-4}*m83^{-2} - 1/1296*\ln(6)*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 1/1296*\ln(6)*\ln(8)*F^{-3}*\sin x^7*\sqrt{3}*\pi^{-4}*m83^{-2} \\
& + 1/54*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L8r*m83^{-2} + 2/27*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L7r*m83^{-2} - 1/324*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L5r*m83^{-2} - 1/54*\ln(8)*F^{-3}*\cos x*\pi^{-2}*L4r*m83^{-2} - 1/27*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L8r*m83^{-2} - 10/81*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L7r*m83^{-2} + 1/162*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L6r*m83^{-2} + 1/324*\ln(8)*F^{-3}*\sin x*\sqrt{3}*\pi^{-2}*L4r*m83^{-2} + 28/81*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L8r*m83^{-2} + 28/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L7r*m83^{-2} - 4/81*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L6r*m83^{-2} + 4/243*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L5r*m83^{-2} + 2/27*\ln(8)*F^{-3}*\sin x^2*\cos x*\pi^{-2}*L4r*m83^{-2} - 104/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L8r*m83^{-2} - 320/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L7r*m83^{-2} + 8/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L6r*m83^{-2} - 4/243*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L5r*m83^{-2} - 4/81*\ln(8)*F^{-3}*\sin x^4*\cos x*\pi^{-2}*L4r*m83^{-2} + 64/81*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L8r*m83^{-2} + 64/27*\ln(8)*F^{-3}*\sin x^6*\cos x*\pi^{-2}*L7r*m83^{-2} - 5/165888*\ln(8)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-2} + 13/746496*\ln(8)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-2} - 13/93312*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-2} + 25/23328*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-2} - 1/729*\ln(8)^2*F^{-3}*\sin x^6*\cos x*\pi^{-4}*m83^{-2} + 1/1944*\ln(8)^2*F^{-3}*\sin x^8*\cos x*\pi^{-4}*m83^{-2} + 83/414720/(mass(3))*\ln(3)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} - 329/3732480/(mass(3))*\ln(3)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 169/466560/(mass(3))*\ln(3)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 1/2916/(mass(3))*\ln(3)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1} + 7/36864/(mass(4))*\ln(4)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} - 11/82944/(mass(4))*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 61/165888/(mass(4))*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 23/165888/(mass(4))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 7/36864/(mass(5))*\ln(4)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} - 11/82944/(mass(5))*\ln(4)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 61/165888/(mass(5))*\ln(4)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 23/165888/(mass(5))*\ln(4)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 19/221184/(mass(6))*\ln(6)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} + 1/24576/(mass(6))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 61/165888/(mass(6))*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 23/165888/(mass(6))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 19/221184/(mass(7))*\ln(6)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} + 1/24576/(mass(7))*\ln(6)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 61/165888/(mass(7))*\ln(6)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} - 23/165888/(mass(7))*\ln(6)^2*F^{-3}*\sin x^3*\sqrt{3}*\pi^{-4}*m83^{-1} + 19/138240/(mass(8))*\ln(8)^2*F^{-3}*\cos x*\pi^{-4}*m83^{-1} - 91/3732480/(mass(8))*\ln(8)^2*F^{-3}*\sin x*\sqrt{3}*\pi^{-4}*m83^{-1} - 251/466560/(mass(8))*\ln(8)^2*F^{-3}*\sin x^2*\cos x*\pi^{-4}*m83^{-1} + 1/2916/(mass(8))*\ln(8)^2*F^{-3}*\sin x^4*\cos x*\pi^{-4}*m83^{-1})
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}^4 \text{mkp}^2 * (- 1/3456/(\text{mass}(3)) \ln(3)^2 F^{-3} \cos x \pi^{-4} m_{83}^{-2} + \\
& 35/93312/(\text{mass}(3)) \ln(3)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-2} - 5/11664/(\text{mass}(3)) \ln(3)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m_{83}^{-2} \\
& - 1/1728/(\text{mass}(6)) \ln(6)^2 F^{-3} \cos x \pi^{-4} m_{83}^{-2} + 1/1728/(\text{mass}(6)) \ln(6)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-2} - \\
& 1/10368/(\text{mass}(8)) \ln(8)^2 F^{-3} \cos x \pi^{-4} m_{83}^{-2} + 1/93312/(\text{mass}(8)) \ln(8)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-2} \\
& + 5/11664/(\text{mass}(8)) \ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m_{83}^{-2}) \\
& + \text{mud}^4 \text{mpp}^2 * (+ 1/2304/(\text{mass}(3)) \ln(3)^2 F^{-3} \cos x \pi^{-4} m_{83}^{-2} - \\
& 79/186624/(\text{mass}(3)) \ln(3)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-2} + 1/23328/(\text{mass}(3)) \ln(3)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m_{83}^{-2} \\
& + 1/1728/(\text{mass}(6)) \ln(6)^2 F^{-3} \cos x \pi^{-4} m_{83}^{-2} - 1/1728/(\text{mass}(6)) \ln(6)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-2} - \\
& 1/20736/(\text{mass}(8)) \ln(8)^2 F^{-3} \cos x \pi^{-4} m_{83}^{-2} + 7/186624/(\text{mass}(8)) \ln(8)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-2} \\
& - 1/23328/(\text{mass}(8)) \ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m_{83}^{-2}) \\
& + \text{mud}^5 * (- 1/62208/(\text{mass}(3)) \ln(3)^2 F^{-3} \cos x \pi^{-4} m_{83}^{-2} + \\
& 1/186624/(\text{mass}(3)) \ln(3)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-2} + 1/23328/(\text{mass}(3)) \ln(3)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m_{83}^{-2} \\
& + 1/62208/(\text{mass}(8)) \ln(8)^2 F^{-3} \cos x \pi^{-4} m_{83}^{-2} - 1/186624/(\text{mass}(8)) \ln(8)^2 F^{-3} \sin x \sqrt{3} \pi^{-4} m_{83}^{-2} - \\
& 1/23328/(\text{mass}(8)) \ln(8)^2 F^{-3} \sin x^2 \cos x \pi^{-4} m_{83}^{-2});
\end{aligned}$$

Mass:

one-loop(both quark mass and EM corrections):

Neutral pion: Mass433 =

$$\begin{aligned}
& + F^{-4} C_0 e^2 * (+ 1/8 \ln(1) \pi^{-2} \text{mpp}^2 - 1/6 \ln(1) \sin x^2 \pi^{-2} \text{mpp}^2 + 1/3 \ln(4) \sqrt{3}^{-1} \sin x \cos x \pi^{-2} \text{mkp}^2 - 1/12 \ln(4) \sqrt{3}^{-1} \sin x^2 \cos x \pi^{-2} \text{mpp}^2 \\
& + 1/12 \ln(4) \sin x^2 \pi^{-2} \text{mkp}^2 - 1/24 \ln(4) \text{mud} \sqrt{3}^{-1} \sin x \cos x \pi^{-2} + 1/48 \ln(4) \text{mud} \pi^{-2} - 1/24 \ln(4) \text{mud} \sin x^2 \pi^{-2}) \\
& + F^{-2} * (+ 32 \text{mpp}^2 \text{mkp}^2 L_{6r} - 16 \text{mpp}^2 \text{mkp}^2 L_{4r} + 16 \text{mpp}^2 L_{8r} + 16 \text{mpp}^2 L_{6r} - 8 \text{mpp}^2 L_{5r} - 8 \text{mpp}^2 L_{4r} + 128/3 \sin x^2 \text{mkp}^2 L_{8r} \\
& + 128/3 \sin x^2 \text{mkp}^2 L_{7r} + 128/3 \sin x^2 \text{mkp}^2 L_{6r} - 128/9 \sin x^2 \text{mkp}^2 L_{5r} - 64/3 \sin x^2 \text{mkp}^2 L_{4r} - 128/3 \sin x^2 \text{mpp}^2 \text{mkp}^2 L_{8r} - 256/3 \sin x^2 \text{mpp}^2 \text{mkp}^2 L_{7r} \\
& - 64/3 \sin x^2 \text{mpp}^2 \text{mkp}^2 L_{6r} + 64/9 \sin x^2 \text{mpp}^2 \text{mkp}^2 L_{5r} + 32/3 \sin x^2 \text{mpp}^2 \text{mkp}^2 L_{4r} + 128/3 \sin x^2 \text{mpp}^2 L_{7r} - 64/3 \sin x^2 \text{mpp}^2 L_{6r} + 64/9 \sin x^2 \text{mpp}^2 L_{5r} \\
& + 32/3 \sin x^2 \text{mpp}^2 L_{4r} - 64/3 \text{mud} \sqrt{3}^{-1} \sin x \cos x \text{mkp}^2 L_{8r} - 192 \text{mud} \sqrt{3}^{-1} \sin x \cos x \text{mkp}^2 L_{7r} + 64 \text{mud} \sqrt{3}^{-1} \sin x \cos x \text{mkp}^2 L_{6r} \\
& - 64/3 \text{mud} \sqrt{3}^{-1} \sin x \cos x \text{mkp}^2 L_{5r} - 32 \text{mud} \sqrt{3}^{-1} \sin x \cos x \text{mkp}^2 L_{4r} + 256/3 \text{mud} \sqrt{3}^{-1} \sin x \cos x \text{mpp}^2 L_{8r} + 192 \text{mud} \sqrt{3}^{-1} \sin x \cos x \text{mpp}^2 L_{7r} \\
& + 32 \text{mud} \sqrt{3}^{-1} \sin x \cos x \text{mpp}^2 L_{6r} - 32/3 \text{mud} \sqrt{3}^{-1} \sin x \cos x \text{mpp}^2 L_{5r} - 16 \text{mud} \sqrt{3}^{-1} \sin x \cos x \text{mpp}^2 L_{4r} - 16 \text{mud} \text{mpp}^2 L_{6r} + 8 \text{mud} \text{mpp}^2 L_{4r} \\
& - 128/3 \text{mud} \sin x^2 \text{mkp}^2 L_{8r} - 128/3 \text{mud} \sin x^2 \text{mkp}^2 L_{7r} - 128/3 \text{mud} \sin x^2 \text{mkp}^2 L_{6r} + 128/9 \text{mud} \sin x^2 \text{mkp}^2 L_{5r} + 64/3 \text{mud} \sin x^2 \text{mkp}^2 L_{4r} + 64/3 \text{mud} \sin x^2 \text{mpp}^2 L_{8r} \\
& + 128/3 \text{mud} \sin x^2 \text{mpp}^2 L_{7r} + 32/3 \text{mud} \sin x^2 \text{mpp}^2 L_{6r} - 32/9 \text{mud} \sin x^2 \text{mpp}^2 L_{5r}
\end{aligned}$$

$$\begin{aligned}
& - 16/3*\text{mud}*\text{sinx}^2*\text{mpp2}*L4r + 32/3*\text{mud}^2*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*L8r + \\
& 96*\text{mud}^2*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*L7r - 32*\text{mud}^2*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*L6r + \\
& 32/3*\text{mud}^2*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*L5r + 16*\text{mud}^2*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*L4r + \\
& 32/3*\text{mud}^2*L8r + 16*\text{mud}^2*L7r - 8/3*\text{mud}^2*L5r + 32/3*\text{mud}^2*\text{sinx}^2*L8r \\
& + 32/3*\text{mud}^2*\text{sinx}^2*L7r + 32/3*\text{mud}^2*\text{sinx}^2*L6r - 32/9*\text{mud}^2*\text{sinx}^2*L5r \\
& - 16/3*\text{mud}^2*\text{sinx}^2*L4r + 1/16*\ln(1)*\text{pi}^{-2}*\text{mpp2}^2 - 1/12*\ln(1)*\text{sinx}^2*\text{pi}^{-2} \\
& * \text{mpp2}^2 - 1/32*\ln(3)*\text{pi}^{-2}*\text{mpp2}^2 + 1/72*\ln(3)*\text{sinx}^2*\text{pi}^{-2}*\text{mpp2}^2*\text{mkp2} \\
& - 1/72*\ln(3)*\text{sinx}^2*\text{pi}^{-2}*\text{mpp2}^2 - 2/27*\ln(3)*\text{sinx}^4*\text{pi}^{-2}*\text{mkp2}^2 + \\
& 1/27*\ln(3)*\text{sinx}^4*\text{pi}^{-2}*\text{mpp2}^2*\text{mkp2} + 1/27*\ln(3)*\text{sinx}^4*\text{pi}^{-2}*\text{mpp2}^2 - \\
& 1/18*\ln(3)*\text{mud}*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mkp2} - 13/144*\ln(3)*\text{mud}*\text{sqrt3}^{-1} \\
& *\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mpp2} - 1/144*\ln(3)*\text{mud}*\text{sinx}^2*\text{pi}^{-2}*\text{mpp2} + 2/27*\ln(3)*\text{mud}*\text{sinx}^4*\text{pi}^{-2} \\
& *\text{mkp2} - 1/54*\ln(3)*\text{mud}*\text{sinx}^4*\text{pi}^{-2}*\text{mpp2} + 1/36*\ln(3)*\text{mud}^2*\text{sqrt3}^{-1} \\
& *\text{sinx}*\text{cosx}*\text{pi}^{-2} - 1/72*\ln(3)*\text{mud}^2*\text{pi}^{-2} - 1/54*\ln(3)*\text{mud}^2*\text{sinx}^4*\text{pi}^{-2} \\
& + 5/24*\ln(4)*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mkp2}^2 - 1/12*\ln(4)*\text{sqrt3}^{-1} \\
& *\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mpp2}*\text{mkp2} + 1/24*\ln(4)*\text{sinx}^2*\text{pi}^{-2}*\text{mkp2}^2 - \\
& 1/16*\ln(4)*\text{mud}*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mkp2} + 1/48*\ln(4)*\text{mud}*\text{sqrt3}^{-1} \\
& *\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mpp2} + 1/48*\ln(4)*\text{mud}*\text{pi}^{-2}*\text{mkp2} - 1/24*\ln(4)*\text{mud}*\text{sinx}^2*\text{pi}^{-2} \\
& *\text{mkp2} + 1/96*\ln(4)*\text{mud}^2*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2} - 1/192*\ln(4)*\text{mud}^2*\text{pi}^{-2} \\
& + 1/96*\ln(4)*\text{mud}^2*\text{sinx}^2*\text{pi}^{-2} - 5/24*\ln(6)*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2} \\
& *\text{mkp2}^2 + 1/12*\ln(6)*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mpp2}*\text{mkp2} + 1/24*\ln(6)*\text{sinx}^2*\text{pi}^{-2} \\
& *\text{mkp2}^2 + 17/48*\ln(6)*\text{mud}*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mkp2} - 1/16*\ln(6)*\text{mud}*\text{sqrt3}^{-1} \\
& *\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mpp2} - 1/48*\ln(6)*\text{mud}*\text{pi}^{-2}*\text{mkp2} - 1/24*\ln(6)*\text{mud}*\text{sinx}^2*\text{pi}^{-2} \\
& *\text{mkp2} - 5/32*\ln(6)*\text{mud}^2*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2} + 1/64*\ln(6)*\text{mud}^2*\text{pi}^{-2} \\
& + 1/96*\ln(6)*\text{mud}^2*\text{sinx}^2*\text{pi}^{-2} - 1/72*\ln(8)*\text{pi}^{-2}*\text{mpp2}*\text{mkp2} + \\
& 1/288*\ln(8)*\text{pi}^{-2}*\text{mpp2}^2 - 2/27*\ln(8)*\text{sinx}^2*\text{pi}^{-2}*\text{mkp2}^2 + 11/216*\ln(8)*\text{sinx}^2*\text{pi}^{-2} \\
& *\text{mpp2}*\text{mkp2} + 5/216*\ln(8)*\text{sinx}^2*\text{pi}^{-2}*\text{mpp2}^2 + 2/27*\ln(8)*\text{sinx}^4*\text{pi}^{-2} \\
& *\text{mkp2}^2 - 1/27*\ln(8)*\text{sinx}^4*\text{pi}^{-2}*\text{mpp2}*\text{mkp2} - 1/27*\ln(8)*\text{sinx}^4*\text{pi}^{-2} \\
& *\text{mpp2}^2 + 1/18*\ln(8)*\text{mud}*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mkp2} - 5/144*\ln(8)*\text{mud}*\text{sqrt3}^{-1} \\
& *\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mpp2} + 1/144*\ln(8)*\text{mud}*\text{pi}^{-2}*\text{mpp2} + 2/27*\ln(8)*\text{mud}*\text{sinx}^2*\text{pi}^{-2} \\
& *\text{mkp2} - 11/432*\ln(8)*\text{mud}*\text{sinx}^2*\text{pi}^{-2}*\text{mpp2} - 2/27*\ln(8)*\text{mud}*\text{sinx}^4*\text{pi}^{-2} \\
& *\text{mkp2} + 1/54*\ln(8)*\text{mud}*\text{sinx}^4*\text{pi}^{-2}*\text{mpp2} - 1/36*\ln(8)*\text{mud}^2*\text{sqrt3}^{-1} \\
& *\text{sinx}*\text{cosx}*\text{pi}^{-2} - 1/54*\ln(8)*\text{mud}^2*\text{sinx}^2*\text{pi}^{-2} + 1/54*\ln(8)*\text{mud}^2*\text{sinx}^4*\text{pi}^{-2} \\
& 2) \\
& + e^2 * (- 16/9*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mkp2}^2*K10r - 16/9*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mkp2}^2*K9r \\
& - 16/9*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mkp2}^2*K6r - 16/9*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mkp2}^2*K5r - \\
& 8/3*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mkp2}^2*K4r + 16/3*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mkp2}^2*K3r + \\
& 40/9*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mpp2}^2*K10r + 40/9*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mpp2}^2*K9r \\
& - 8/9*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mpp2}^2*K6r - 8/9*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mpp2}^2*K5r - \\
& 4/3*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mpp2}^2*K4r + 8/3*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mpp2}^2*K3r + \\
& 20/9*\text{mpp2}^2*K10r + 20/9*\text{mpp2}^2*K9r + 8/3*\text{mpp2}^2*K8r + 8/3*\text{mpp2}^2*K7r \\
& - 20/9*\text{mpp2}^2*K6r - 20/9*\text{mpp2}^2*K5r - 2*\text{mpp2}^2*K4r + 4*\text{mpp2}^2*K3r - \\
& 8/3*\text{mpp2}^2*K2r - 8/3*\text{mpp2}^2*K1r + 32/27*\text{sinx}^2*\text{mkp2}^2*K10r + 32/27*\text{sinx}^2*\text{mkp2}^2*K9r \\
& + 32/9*\text{sinx}^2*\text{mkp2}^2*K8r + 32/9*\text{sinx}^2*\text{mkp2}^2*K7r - 16/9*\text{sinx}^2*\text{mkp2}^2*K6r \\
& - 16/9*\text{sinx}^2*\text{mkp2}^2*K5r - 8/9*\text{sinx}^2*\text{mkp2}^2*K4r + 16/9*\text{sinx}^2*\text{mkp2}^2*K3r - \\
& 32/9*\text{sinx}^2*\text{mkp2}^2*K2r - 32/9*\text{sinx}^2*\text{mkp2}^2*K1r - 56/27*\text{sinx}^2*\text{mpp2}^2*K10r
\end{aligned}$$

$$\begin{aligned}
& - 56/27*\sin x^2*mpp2*K9r - 32/9*\sin x^2*mpp2*K8r - 32/9*\sin x^2*mpp2*K7r \\
& + 8/3*\sin x^2*mpp2*K6r + 8/3*\sin x^2*mpp2*K5r + 20/9*\sin x^2*mpp2*K4r - \\
& 40/9*\sin x^2*mpp2*K3r + 32/9*\sin x^2*mpp2*K2r + 32/9*\sin x^2*mpp2*K1r \\
& + 16/3*mud*\sqrt{3}^{-1}*\sin x*\cos x*K10r + 16/3*mud*\sqrt{3}^{-1}*\sin x*\cos x*K9r \\
& + 16/3*mud*\sqrt{3}^{-1}*\sin x*\cos x*K8r + 16/3*mud*\sqrt{3}^{-1}*\sin x*\cos x*K7r \\
& - 8/3*mud*\sqrt{3}^{-1}*\sin x*\cos x*K6r - 8/3*mud*\sqrt{3}^{-1}*\sin x*\cos x*K5r \\
& - 4/3*mud*\sqrt{3}^{-1}*\sin x*\cos x*K4r + 8/3*mud*\sqrt{3}^{-1}*\sin x*\cos x*K3r \\
& - 16/3*mud*\sqrt{3}^{-1}*\sin x*\cos x*K2r - 16/3*mud*\sqrt{3}^{-1}*\sin x*\cos x*K1r + \\
& 8/9*mud*K10r + 8/9*mud*K9r - 4/9*mud*K6r - 4/9*mud*K5r - 2/3*mud*K4r \\
& + 4/3*mud*K3r - 16/27*mud*\sin x^2*K10r - 16/27*mud*\sin x^2*K9r - \\
& 16/9*mud*\sin x^2*K8r - 16/9*mud*\sin x^2*K7r + 8/9*mud*\sin x^2*K6r + \\
& 8/9*mud*\sin x^2*K5r + 4/9*mud*\sin x^2*K4r - 8/9*mud*\sin x^2*K3r + \\
& 16/9*mud*\sin x^2*K2r + 16/9*mud*\sin x^2*K1r);
\end{aligned}$$

eta: Mass488 =

$$\begin{aligned}
& + F^{-4}*C0*e^2 * (- 1/24*\ln(1)*\pi^{-2}*mpp2 + 1/6*\ln(1)*\sin x^2*\pi^{-2}*mpp2 \\
& - 1/3*\ln(4)*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-2}*mkp2 + 1/12*\ln(4)*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-2}*mpp2 \\
& + 1/12*\ln(4)*\pi^{-2}*mkp2 - 1/12*\ln(4)*\sin x^2*\pi^{-2}*mkp2 + 1/24*\ln(4)*mud*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-2} \\
& - 1/48*\ln(4)*mud*\pi^{-2} + 1/24*\ln(4)*mud*\sin x^2*\pi^{-2}) \\
& + F^{-2} * (+ 128/3*mkp2^2*L8r + 128/3*mkp2^2*L7r + 128/3*mkp2^2*L6r \\
& - 128/9*mkp2^2*L5r - 64/3*mkp2^2*L4r - 128/3*mpp2*mkp2*L8r - \\
& 256/3*mpp2*mkp2*L7r + 32/3*mpp2*mkp2*L6r + 64/9*mpp2*mkp2*L5r - \\
& 16/3*mpp2*mkp2*L4r + 16*mpp2^2*L8r + 128/3*mpp2^2*L7r - 16/3*mpp2^2*L6r \\
& - 8/9*mpp2^2*L5r + 8/3*mpp2^2*L4r - 128/3*\sin x^2*mkp2^2*L8r - \\
& 128/3*\sin x^2*mkp2^2*L7r - 128/3*\sin x^2*mkp2^2*L6r + 128/9*\sin x^2*mkp2^2*L5r \\
& + 64/3*\sin x^2*mkp2^2*L4r + 128/3*\sin x^2*mpp2*mkp2*L8r + 256/3*\sin x^2*mpp2*mkp2*L7r \\
& + 64/3*\sin x^2*mpp2*mkp2*L6r - 64/9*\sin x^2*mpp2*mkp2*L5r - 32/3*\sin x^2*mpp2*mkp2*L4r \\
& - 128/3*\sin x^2*mpp2^2*L7r + 64/3*\sin x^2*mpp2^2*L6r - 64/9*\sin x^2*mpp2^2*L5r \\
& - 32/3*\sin x^2*mpp2^2*L4r + 64/3*mud*\sqrt{3}^{-1}*\sin x*\cos x*mkp2*L8r + \\
& 192*mud*\sqrt{3}^{-1}*\sin x*\cos x*mkp2*L7r - 64*mud*\sqrt{3}^{-1}*\sin x*\cos x*mkp2*L6r \\
& + 64/3*mud*\sqrt{3}^{-1}*\sin x*\cos x*mkp2*L5r + 32*mud*\sqrt{3}^{-1}*\sin x*\cos x*mkp2*L4r \\
& - 256/3*mud*\sqrt{3}^{-1}*\sin x*\cos x*mpp2*L8r - 192*mud*\sqrt{3}^{-1}*\sin x*\cos x*mpp2*L7r \\
& - 32*mud*\sqrt{3}^{-1}*\sin x*\cos x*mpp2*L6r + 32/3*mud*\sqrt{3}^{-1}*\sin x*\cos x*mpp2*L5r \\
& + 16*mud*\sqrt{3}^{-1}*\sin x*\cos x*mpp2*L4r - 128/3*mud*mkp2*L8r - 128/3*mud*mkp2*L7r \\
& - 128/3*mud*mkp2*L6r + 128/9*mud*mkp2*L5r + 64/3*mud*mkp2*L4r + \\
& 64/3*mud*mpp2*L8r + 128/3*mud*mpp2*L7r - 16/3*mud*mpp2*L6r - \\
& 32/9*mud*mpp2*L5r + 8/3*mud*mpp2*L4r + 128/3*mud*\sin x^2*mkp2*L8r \\
& + 128/3*mud*\sin x^2*mkp2*L7r + 128/3*mud*\sin x^2*mkp2*L6r - 128/9*mud*\sin x^2*mkp2*L5r \\
& - 64/3*mud*\sin x^2*mkp2*L4r - 64/3*mud*\sin x^2*mpp2*L8r - 128/3*mud*\sin x^2*mpp2*L7r \\
& - 32/3*mud*\sin x^2*mpp2*L6r + 32/9*mud*\sin x^2*mpp2*L5r + 16/3*mud*\sin x^2*mpp2*L4r \\
& - 32/3*mud^2*\sqrt{3}^{-1}*\sin x*\cos x*L8r - 96*mud^2*\sqrt{3}^{-1}*\sin x*\cos x*L7r \\
& + 32*mud^2*\sqrt{3}^{-1}*\sin x*\cos x*L6r - 32/3*mud^2*\sqrt{3}^{-1}*\sin x*\cos x*L5r - \\
& 16*mud^2*\sqrt{3}^{-1}*\sin x*\cos x*L4r + 64/3*mud^2*L8r + 80/3*mud^2*L7r + \\
& 32/3*mud^2*L6r - 56/9*mud^2*L5r - 16/3*mud^2*L4r - 32/3*mud^2*\sin x^2*L8r
\end{aligned}$$

$$\begin{aligned}
& -32/3*\text{mud}^2*\text{sinx}^2*L7r - 32/3*\text{mud}^2*\text{sinx}^2*L6r + 32/9*\text{mud}^2*\text{sinx}^2*L5r \\
& + 16/3*\text{mud}^2*\text{sinx}^2*L4r - 1/48*\ln(1)*\text{pi}^{-2}*\text{mpp2}^2 + 1/12*\ln(1)*\text{sinx}^2*\text{pi}^{-2}*\text{mpp2}^2 \\
& - 1/96*\ln(3)*\text{pi}^{-2}*\text{mpp2}^2 - 2/27*\ln(3)*\text{sinx}^2*\text{pi}^{-2}*\text{mkp2}^2 \\
& + 5/216*\ln(3)*\text{sinx}^2*\text{pi}^{-2}*\text{mpp2}^2*\text{mkp2} + 11/216*\ln(3)*\text{sinx}^2*\text{pi}^{-2}*\text{mpp2}^2 \\
& + 2/27*\ln(3)*\text{sinx}^4*\text{pi}^{-2}*\text{mkp2}^2 - 1/27*\ln(3)*\text{sinx}^4*\text{pi}^{-2}*\text{mpp2}^2*\text{mkp2} \\
& - 1/27*\ln(3)*\text{sinx}^4*\text{pi}^{-2}*\text{mpp2}^2 - 1/18*\ln(3)*\text{mud}*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mpp2} \\
& + 5/144*\ln(3)*\text{mud}*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mpp2} \\
& + 2/27*\ln(3)*\text{mud}*\text{sinx}^2*\text{pi}^{-2}*\text{mkp2} - 5/432*\ln(3)*\text{mud}*\text{sinx}^2*\text{pi}^{-2}*\text{mpp2} \\
& - 2/27*\ln(3)*\text{mud}*\text{sinx}^4*\text{pi}^{-2}*\text{mkp2} + 1/54*\ln(3)*\text{mud}*\text{sinx}^4*\text{pi}^{-2}*\text{mpp2} \\
& + 1/36*\ln(3)*\text{mud}^2*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2} - 1/54*\ln(3)*\text{mud}^2*\text{sinx}^2*\text{pi}^{-2} \\
& + 1/54*\ln(3)*\text{mud}^2*\text{sinx}^4*\text{pi}^{-2} - 5/24*\ln(4)*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2} \\
& *2*\text{mkp2}^2 + 1/12*\ln(4)*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mpp2}*\text{mkp2} + 1/24*\ln(4)*\text{pi}^{-2} \\
& *2*\text{mkp2}^2 - 1/24*\ln(4)*\text{sinx}^2*\text{pi}^{-2}*\text{mkp2}^2 + 1/16*\ln(4)*\text{mud}*\text{sqrt3}^{-1} \\
& *1*\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mkp2} - 1/48*\ln(4)*\text{mud}*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mpp2} \\
& - 1/48*\ln(4)*\text{mud}*\text{pi}^{-2}*\text{mkp2} + 1/24*\ln(4)*\text{mud}*\text{sinx}^2*\text{pi}^{-2}*\text{mkp2} - \\
& 1/96*\ln(4)*\text{mud}^2*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2} + 1/192*\ln(4)*\text{mud}^2*\text{pi}^{-2} \\
& - 1/96*\ln(4)*\text{mud}^2*\text{sinx}^2*\text{pi}^{-2} + 5/24*\ln(6)*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2} \\
& *2*\text{mkp2}^2 - 1/12*\ln(6)*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mpp2}*\text{mkp2} + 1/24*\ln(6)*\text{pi}^{-2} \\
& *2*\text{mkp2}^2 - 1/24*\ln(6)*\text{sinx}^2*\text{pi}^{-2}*\text{mkp2}^2 - 17/48*\ln(6)*\text{mud}*\text{sqrt3}^{-1} \\
& *1*\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mkp2} + 1/16*\ln(6)*\text{mud}*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mpp2} \\
& - 1/16*\ln(6)*\text{mud}*\text{pi}^{-2}*\text{mkp2} + 1/24*\ln(6)*\text{mud}*\text{sinx}^2*\text{pi}^{-2}*\text{mkp2} + \\
& 5/32*\ln(6)*\text{mud}^2*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2} + 5/192*\ln(6)*\text{mud}^2*\text{pi}^{-2} - \\
& 1/96*\ln(6)*\text{mud}^2*\text{sinx}^2*\text{pi}^{-2} - 2/27*\ln(8)*\text{pi}^{-2}*\text{mkp2}^2 + 11/216*\ln(8)*\text{pi}^{-2} \\
& *2*\text{mpp2}*\text{mkp2} - 7/864*\ln(8)*\text{pi}^{-2}*\text{mpp2}^2 + 4/27*\ln(8)*\text{sinx}^2*\text{pi}^{-2} \\
& *2*\text{mkp2}^2 - 19/216*\ln(8)*\text{sinx}^2*\text{pi}^{-2}*\text{mpp2}*\text{mkp2} - 13/216*\ln(8)*\text{sinx}^2*\text{pi}^{-2} \\
& *2*\text{mpp2}^2 - 2/27*\ln(8)*\text{sinx}^4*\text{pi}^{-2}*\text{mkp2}^2 + 1/27*\ln(8)*\text{sinx}^4*\text{pi}^{-2} \\
& *2*\text{mpp2}*\text{mkp2} + 1/27*\ln(8)*\text{sinx}^4*\text{pi}^{-2}*\text{mpp2}^2 + 1/18*\ln(8)*\text{mud}*\text{sqrt3}^{-1} \\
& *1*\text{sinx}*\text{cosx}*\text{pi}^{-2}*\text{mkp2} + 13/144*\ln(8)*\text{mud}*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2} \\
& *2*\text{mpp2} + 2/27*\ln(8)*\text{mud}*\text{pi}^{-2}*\text{mkp2} - 11/432*\ln(8)*\text{mud}*\text{pi}^{-2}*\text{mpp2} - \\
& 4/27*\ln(8)*\text{mud}*\text{sinx}^2*\text{pi}^{-2}*\text{mkp2} + 19/432*\ln(8)*\text{mud}*\text{sinx}^2*\text{pi}^{-2}*\text{mpp2} \\
& + 2/27*\ln(8)*\text{mud}*\text{sinx}^4*\text{pi}^{-2}*\text{mkp2} - 1/54*\ln(8)*\text{mud}*\text{sinx}^4*\text{pi}^{-2}*\text{mpp2} \\
& - 1/36*\ln(8)*\text{mud}^2*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{pi}^{-2} - 7/216*\ln(8)*\text{mud}^2*\text{pi}^{-2} + \\
& 1/27*\ln(8)*\text{mud}^2*\text{sinx}^2*\text{pi}^{-2} - 1/54*\ln(8)*\text{mud}^2*\text{sinx}^4*\text{pi}^{-2}) \\
& + e^2 * (+ 16/9*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mkp2}^2*K10r + 16/9*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mkp2}^2*K9r \\
& + 16/9*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mkp2}^2*K6r + 16/9*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mkp2}^2*K5r \\
& + 8/3*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mkp2}^2*K4r - 16/3*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mkp2}^2*K3r - \\
& 40/9*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mpp2}^2*K10r - 40/9*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mpp2}^2*K9r \\
& + 8/9*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mpp2}^2*K6r + 8/9*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mpp2}^2*K5r \\
& + 4/3*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mpp2}^2*K4r - 8/3*\text{sqrt3}^{-1}*\text{sinx}*\text{cosx}*\text{mpp2}^2*K3r + \\
& 32/27*\text{mkp2}^2*K10r + 32/27*\text{mkp2}^2*K9r + 32/9*\text{mkp2}^2*K8r + 32/9*\text{mkp2}^2*K7r \\
& - 16/9*\text{mkp2}^2*K6r - 16/9*\text{mkp2}^2*K5r - 8/9*\text{mkp2}^2*K4r + 16/9*\text{mkp2}^2*K3r - \\
& 32/9*\text{mkp2}^2*K2r - 32/9*\text{mkp2}^2*K1r + 4/27*\text{mpp2}^2*K10r + 4/27*\text{mpp2}^2*K9r \\
& - 8/9*\text{mpp2}^2*K8r - 8/9*\text{mpp2}^2*K7r + 4/9*\text{mpp2}^2*K6r + 4/9*\text{mpp2}^2*K5r \\
& + 2/9*\text{mpp2}^2*K4r - 4/9*\text{mpp2}^2*K3r + 8/9*\text{mpp2}^2*K2r + 8/9*\text{mpp2}^2*K1r - \\
& 32/27*\text{sinx}^2*\text{mkp2}^2*K10r - 32/27*\text{sinx}^2*\text{mkp2}^2*K9r - 32/9*\text{sinx}^2*\text{mkp2}^2*K8r
\end{aligned}$$

$$\begin{aligned}
& - 32/9*\sin x^2*mkp2*K7r + 16/9*\sin x^2*mkp2*K6r + 16/9*\sin x^2*mkp2*K5r \\
& + 8/9*\sin x^2*mkp2*K4r - 16/9*\sin x^2*mkp2*K3r + 32/9*\sin x^2*mkp2*K2r + \\
& 32/9*\sin x^2*mkp2*K1r + 56/27*\sin x^2*mpp2*K10r + 56/27*\sin x^2*mpp2*K9r \\
& + 32/9*\sin x^2*mpp2*K8r + 32/9*\sin x^2*mpp2*K7r - 8/3*\sin x^2*mpp2*K6r \\
& - 8/3*\sin x^2*mpp2*K5r - 20/9*\sin x^2*mpp2*K4r + 40/9*\sin x^2*mpp2*K3r \\
& - 32/9*\sin x^2*mpp2*K2r - 32/9*\sin x^2*mpp2*K1r - 16/3*\text{mud}*\sqrt{3}^{\wedge-1} \\
& * \sin x * \cos x * K10r - 16/3*\text{mud}*\sqrt{3}^{\wedge-1} * \sin x * \cos x * K9r - 16/3*\text{mud}*\sqrt{3}^{\wedge-1} \\
& * \sin x * \cos x * K8r - 16/3*\text{mud}*\sqrt{3}^{\wedge-1} * \sin x * \cos x * K7r + 8/3*\text{mud}*\sqrt{3}^{\wedge-1} \\
& * \sin x * \cos x * K6r + 8/3*\text{mud}*\sqrt{3}^{\wedge-1} * \sin x * \cos x * K5r + 4/3*\text{mud}*\sqrt{3}^{\wedge-1} \\
& * \sin x * \cos x * K4r - 8/3*\text{mud}*\sqrt{3}^{\wedge-1} * \sin x * \cos x * K3r + 16/3*\text{mud}*\sqrt{3}^{\wedge-1} \\
& * \sin x * \cos x * K2r + 16/3*\text{mud}*\sqrt{3}^{\wedge-1} * \sin x * \cos x * K1r + 8/27*\text{mud} * K10r \\
& + 8/27*\text{mud} * K9r - 16/9*\text{mud} * K8r - 16/9*\text{mud} * K7r + 4/9*\text{mud} * K6r \\
& + 4/9*\text{mud} * K5r - 2/9*\text{mud} * K4r + 4/9*\text{mud} * K3r + 16/9*\text{mud} * K2r + \\
& 16/9*\text{mud} * K1r + 16/27*\text{mud} * \sin x^2 * K10r + 16/27*\text{mud} * \sin x^2 * K9r + \\
& 16/9*\text{mud} * \sin x^2 * K8r + 16/9*\text{mud} * \sin x^2 * K7r - 8/9*\text{mud} * \sin x^2 * K6r \\
& - 8/9*\text{mud} * \sin x^2 * K5r - 4/9*\text{mud} * \sin x^2 * K4r + 8/9*\text{mud} * \sin x^2 * K3r - \\
& 16/9*\text{mud} * \sin x^2 * K2r - 16/9*\text{mud} * \sin x^2 * K1r);
\end{aligned}$$

two-loop(quark mass corrections):

Charged pion: Mass611 =

$$\begin{aligned}
& + mkp2^3 * (+ 1/972*\ln(3)*F^{\wedge-4}*\sin x^2*\pi^{\wedge-4} + 64/81*\ln(3)*F^{\wedge-4} \\
& * \sin x^2 * L8r * \pi^{\wedge-2} + 64/27*\ln(3)*F^{\wedge-4}*\sin x^2 * L7r * \pi^{\wedge-2} - 1/972*\ln(3)*F^{\wedge-4} \\
& * \sin x^4 * \pi^{\wedge-4} - 64/81*\ln(3)*F^{\wedge-4}*\sin x^4 * L8r * \pi^{\wedge-2} - 64/27*\ln(3)*F^{\wedge-4} \\
& * \sin x^4 * L7r * \pi^{\wedge-2} + 1/1944*\ln(3)^2 * F^{\wedge-4} * \sin x^2 * \pi^{\wedge-4} - 1/648*\ln(3)^2 * F^{\wedge-4} \\
& * \sin x^4 * \pi^{\wedge-4} + 1/972*\ln(3)^2 * F^{\wedge-4} * \sin x^6 * \pi^{\wedge-4} + 5/5184*\ln(3)*\ln(4)*F^{\wedge-4} \\
& * \sqrt{3}^{\wedge-1} * \sin x * \cos x * \pi^{\wedge-4} - 1/1296*\ln(3)*\ln(4)*F^{\wedge-4} * \sqrt{3}^{\wedge-1} * \sin x^3 * \cos x * \pi^{\wedge-4} \\
& - 1/1296*\ln(3)*\ln(4)*F^{\wedge-4} * \sin x^2 * \pi^{\wedge-4} + 1/1296*\ln(3)*\ln(4)*F^{\wedge-4} * \sin x^4 * \pi^{\wedge-4} \\
& - 5/5184*\ln(3)*\ln(6)*F^{\wedge-4} * \sqrt{3}^{\wedge-1} * \sin x * \cos x * \pi^{\wedge-4} + 1/1296*\ln(3)*\ln(6)*F^{\wedge-4} \\
& * \sqrt{3}^{\wedge-1} * \sin x^3 * \cos x * \pi^{\wedge-4} - 1/1296*\ln(3)*\ln(6)*F^{\wedge-4} * \sin x^2 * \pi^{\wedge-4} + \\
& 1/1296*\ln(3)*\ln(6)*F^{\wedge-4} * \sin x^4 * \pi^{\wedge-4} - 1/486*\ln(3)*\ln(8)*F^{\wedge-4} * \sin x^2 * \pi^{\wedge-4} \\
& + 1/243*\ln(3)*\ln(8)*F^{\wedge-4} * \sin x^4 * \pi^{\wedge-4} - 1/486*\ln(3)*\ln(8)*F^{\wedge-4} * \sin x^6 * \pi^{\wedge-4} \\
& + 1/1728*\ln(4)*F^{\wedge-4} * \sqrt{3}^{\wedge-1} * \sin x * \cos x * \pi^{\wedge-4} - 5/5184*\ln(4)*\ln(8)*F^{\wedge-4} \\
& * \sqrt{3}^{\wedge-1} * \sin x * \cos x * \pi^{\wedge-4} + 1/1296*\ln(4)*\ln(8)*F^{\wedge-4} * \sqrt{3}^{\wedge-1} * \sin x^3 * \cos x * \pi^{\wedge-4} \\
& + 1/1296*\ln(4)*\ln(8)*F^{\wedge-4} * \sin x^2 * \pi^{\wedge-4} - 1/1296*\ln(4)*\ln(8)*F^{\wedge-4} * \sin x^4 * \pi^{\wedge-4} \\
& - 1/1728*\ln(6)*F^{\wedge-4} * \sqrt{3}^{\wedge-1} * \sin x * \cos x * \pi^{\wedge-4} + 5/5184*\ln(6)*\ln(8)*F^{\wedge-4} \\
& * \sqrt{3}^{\wedge-1} * \sin x * \cos x * \pi^{\wedge-4} - 1/1296*\ln(6)*\ln(8)*F^{\wedge-4} * \sqrt{3}^{\wedge-1} * \sin x^3 * \cos x * \pi^{\wedge-4} \\
& + 1/1296*\ln(6)*\ln(8)*F^{\wedge-4} * \sin x^2 * \pi^{\wedge-4} - 1/1296*\ln(6)*\ln(8)*F^{\wedge-4} * \sin x^4 * \pi^{\wedge-4} \\
& - 1/972*\ln(8)*F^{\wedge-4} * \sin x^2 * \pi^{\wedge-4} - 64/81*\ln(8)*F^{\wedge-4} * \sin x^2 * L8r * \pi^{\wedge-2} \\
& - 64/27*\ln(8)*F^{\wedge-4} * \sin x^2 * L7r * \pi^{\wedge-2} + 1/972*\ln(8)*F^{\wedge-4} * \sin x^4 * \pi^{\wedge-4} + \\
& 64/81*\ln(8)*F^{\wedge-4} * \sin x^4 * L8r * \pi^{\wedge-2} + 64/27*\ln(8)*F^{\wedge-4} * \sin x^4 * L7r * \pi^{\wedge-2} \\
& + 1/648*\ln(8)^2 * F^{\wedge-4} * \sin x^2 * \pi^{\wedge-4} - 5/1944*\ln(8)^2 * F^{\wedge-4} * \sin x^4 * \pi^{\wedge-4} + \\
& 1/972*\ln(8)^2 * F^{\wedge-4} * \sin x^6 * \pi^{\wedge-4}) \\
& + mkp2^4 * (- 5/13824/(mass(4))*\ln(4)^2 * F^{\wedge-4} * \pi^{\wedge-4} + 5/13824/(mass(5))*\ln(4)^2 * F^{\wedge-4} \\
& * \pi^{\wedge-4} - 5/6912/(mass(6))*\ln(6)^2 * F^{\wedge-4} * \pi^{\wedge-4} + 5/6912/(mass(7))*\ln(6)^2 * F^{\wedge-4} \\
& * \pi^{\wedge-4})
\end{aligned}$$

$$\begin{aligned}
& + \text{mpp2} * \text{mkp2} * (+ 1/2 * \text{Hb}(3,4,7, \text{plext.plext}) * F^{-4} * \sin^2 + 1/2 * \text{Hb}(4,3,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos + 1/4 * \text{Hb}(4,3,7, \text{plext.plext}) * F^{-4} - 1/4 * \text{Hb}(4,3,7, \text{plext.plext}) * F^{-4} * \sin^2 - 1/2 * \text{Hb}(4,7,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos + 1/4 * \text{Hb}(4,7,8, \text{plext.plext}) * F^{-4} * \sin^2 + 1/4 * \text{Hb}(5,1,4, \text{plext.plext}) * F^{-4} + 1/4 * \text{Hb}(6,1,7, \text{plext.plext}) * F^{-4} \\
& - 1/2 * \text{Hb}(7,3,4, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos + 1/4 * \text{Hb}(7,3,4, \text{plext.plext}) * F^{-4} - 1/4 * \text{Hb}(7,3,4, \text{plext.plext}) * F^{-4} * \sin^2 + 1/2 * \text{Hb}(7,4,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos + 1/4 * \text{Hb}(7,4,8, \text{plext.plext}) * F^{-4} * \sin^2 + 1/2 * \text{Hb}(8,4,7, \text{plext.plext}) * F^{-4} - 1/2 * \text{Hb}(8,4,7, \text{plext.plext}) * F^{-4} * \sin^2) \\
& + \text{mpp2} * \text{mkp2}^2 * (- 15/4096 * F^{-4} * \pi^{-4} - 11/9216 * F^{-4} * \pi^{-2} - 4/9 * F^{-4} * L8r * \pi^{-2} - 4/9 * F^{-4} * L7r * \pi^{-2} - 4/9 * F^{-4} * L6r * \pi^{-2} + 4/27 * F^{-4} * L5r * \pi^{-2} + 2/9 * F^{-4} * L4r * \pi^{-2} - 512 * F^{-4} * L4r * L6r + 256 * F^{-4} * L4r^2 + 43/216 * F^{-4} * L3r * \pi^{-2} + 13/18 * F^{-4} * L2r * \pi^{-2} + 192 * F^{-4} * CC21 + 64 * F^{-4} * CC20 - 64 * F^{-4} * CC16 + 1/1296 * \ln(1) * \ln(3) * F^{-4} * \sin^2 * \pi^{-4} - 1/1296 * \ln(1) * \ln(3) * F^{-4} * \sin^4 * \pi^{-4} - 1/1296 * \ln(1) * \ln(8) * F^{-4} * \sin^2 * \pi^{-4} + 1/1296 * \ln(1) * \ln(8) * F^{-4} * \sin^4 * \pi^{-4} - 1/1296 * \ln(3) * F^{-4} * \sin^2 * \pi^{-4} - 4 * \ln(3) * F^{-4} * \sin^2 * L8r * \pi^{-2} - 28/3 * \ln(3) * F^{-4} * \sin^2 * L7r * \pi^{-2} - 8/3 * \ln(3) * F^{-4} * \sin^2 * L6r * \pi^{-2} + 4/9 * \ln(3) * F^{-4} * \sin^2 * L5r * \pi^{-2} + 22/9 * \ln(3) * F^{-4} * \sin^2 * L4r * \pi^{-2} - 4/9 * \ln(3) * F^{-4} * \sin^2 * L3r * \pi^{-2} - 4/9 * \ln(3) * F^{-4} * \sin^2 * L2r * \pi^{-2} - 16/9 * \ln(3) * F^{-4} * \sin^2 * L1r * \pi^{-2} + 1/648 * \ln(3) * F^{-4} * \sin^4 * \pi^{-4} + 32/9 * \ln(3) * F^{-4} * \sin^4 * L8r * \pi^{-2} + 32/3 * \ln(3) * F^{-4} * \sin^4 * L7r * \pi^{-2} + 1/648 * \ln(3)^2 * F^{-4} * \sin^2 * \pi^{-4} + 25/10368 * \ln(3)^2 * F^{-4} * \sin^4 * \pi^{-4} - 1/324 * \ln(3)^2 * F^{-4} * \sin^6 * \pi^{-4} - 11/4608 * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} + 1/216 * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos * \pi^{-4} + 7/5184 * \ln(3) * \ln(4) * F^{-4} * \sin^2 * \pi^{-4} - 1/324 * \ln(3) * \ln(4) * F^{-4} * \sin^4 * \pi^{-4} + 11/4608 * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} - 1/216 * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos * \pi^{-4} + 7/5184 * \ln(3) * \ln(6) * F^{-4} * \sin^2 * \pi^{-4} - 1/324 * \ln(3) * \ln(6) * F^{-4} * \sin^4 * \pi^{-4} + 17/5184 * \ln(3) * \ln(8) * F^{-4} * \sin^2 * \pi^{-4} - 49/5184 * \ln(3) * \ln(8) * F^{-4} * \sin^4 * \pi^{-4} + 1/162 * \ln(3) * \ln(8) * F^{-4} * \sin^6 * \pi^{-4} + 1/1728 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} - 11/4608 * \ln(4) * F^{-4} * \pi^{-4} - \ln(4) * F^{-4} * L8r * \pi^{-2} - 2 * \ln(4) * F^{-4} * L6r * \pi^{-2} + 1/2 * \ln(4) * F^{-4} * L5r * \pi^{-2} + 2 * \ln(4) * F^{-4} * L4r * \pi^{-2} - 5/8 * \ln(4) * F^{-4} * L3r * \pi^{-2} - 1/2 * \ln(4) * F^{-4} * L2r * \pi^{-2} - 2 * \ln(4) * F^{-4} * L1r * \pi^{-2} - 1/1024 * \ln(4) * \ln(6) * F^{-4} * \pi^{-4} + 11/4608 * \ln(4) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} - 1/216 * \ln(4) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos * \pi^{-4} - 1/576 * \ln(4) * \ln(8) * F^{-4} * \pi^{-4} - 7/5184 * \ln(4) * \ln(8) * F^{-4} * \sin^2 * \pi^{-4} + 1/324 * \ln(4) * \ln(8) * F^{-4} * \sin^4 * \pi^{-4} - 1/1728 * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} - 11/4608 * \ln(6) * F^{-4} * \pi^{-4} - \ln(6) * F^{-4} * L8r * \pi^{-2} - 2 * \ln(6) * F^{-4} * L6r * \pi^{-2} + 1/2 * \ln(6) * F^{-4} * L5r * \pi^{-2} + 2 * \ln(6) * F^{-4} * L4r * \pi^{-2} - 5/8 * \ln(6) * F^{-4} * L3r * \pi^{-2} - 1/2 * \ln(6) * F^{-4} * L2r * \pi^{-2} - 2 * \ln(6) * F^{-4} * L1r * \pi^{-2} - 11/4608 * \ln(6) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} + 1/216 * \ln(6) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos * \pi^{-4} - 1/576 * \ln(6) * \ln(8) * F^{-4} * \pi^{-4} - 7/5184 * \ln(6) * \ln(8) * F^{-4} * \sin^2 * \pi^{-4} + 1/324 * \ln(6) * \ln(8) * F^{-4} * \sin^4 * \pi^{-4} + 1/1296 * \ln(8) * F^{-4} * \pi^{-4} - 4/9 * \ln(8) * F^{-4} * L8r * \pi^{-2} + 4/3 * \ln(8) * F^{-4} * L7r * \pi^{-2} - 8/3 * \ln(8) * F^{-4} * L6r * \pi^{-2} + 4/9 * \ln(8) * F^{-4} * L5r * \pi^{-2} + 22/9 * \ln(8) * F^{-4} * L4r * \pi^{-2} - 4/9 * \ln(8) * F^{-4} * L3r * \pi^{-2} -
\end{aligned}$$

$$\begin{aligned}
& 4/9*\ln(8)*F^{-4}*L2r*\pi^{-2} - 16/9*\ln(8)*F^{-4}*L1r*\pi^{-2} + 1/1296*\ln(8)*F^{-4}* \sinx^2*\pi^{-4} + 4*\ln(8)*F^{-4}* \sinx^2*L8r*\pi^{-2} + 28/3*\ln(8)*F^{-4}* \sinx^2*L7r*\pi^{-2} \\
& + 8/3*\ln(8)*F^{-4}* \sinx^2*L6r*\pi^{-2} - 4/9*\ln(8)*F^{-4}* \sinx^2*L5r*\pi^{-2} - 22/9*\ln(8)*F^{-4}* \sinx^2*L4r*\pi^{-2} + 4/9*\ln(8)*F^{-4}* \sinx^2*L3r*\pi^{-2} \\
& + 4/9*\ln(8)*F^{-4}* \sinx^2*L2r*\pi^{-2} + 16/9*\ln(8)*F^{-4}* \sinx^2*L1r*\pi^{-2} - 1/648*\ln(8)*F^{-4}* \sinx^4*\pi^{-4} - 32/9*\ln(8)*F^{-4}* \sinx^4*L8r*\pi^{-2} \\
& - 32/3*\ln(8)*F^{-4}* \sinx^4*L7r*\pi^{-2} + 1/1152*\ln(8)^2*F^{-4}* \pi^{-4} - 25/5184*\ln(8)^2*F^{-4}* \sinx^2*\pi^{-4} + 73/10368*\ln(8)^2*F^{-4}* \sinx^4*\pi^{-4} \\
& - 1/324*\ln(8)^2*F^{-4}* \sinx^6*\pi^{-4}) \\
& + \text{mpp2*mkp2}^3 * (- 1/576/(\text{mass}(3))*\ln(3)^2*F^{-4}* \sinx^2*\pi^{-4} - 217/110592/(\text{mass}(4))*\ln(4)^2*F^{-4}* \pi^{-4} - 107/110592/(\text{mass}(5))*\ln(4)^2*F^{-4}* \pi^{-4} \\
& - 131/110592/(\text{mass}(6))*\ln(6)^2*F^{-4}* \pi^{-4} - 193/110592/(\text{mass}(7))*\ln(6)^2*F^{-4}* \pi^{-4} - 1/576/(\text{mass}(8))*\ln(8)^2*F^{-4}* \pi^{-4} + 1/576/(\text{mass}(8))*\ln(8)^2*F^{-4}* \sinx^2*\pi^{-4}) \\
& + \text{mpp2}^2 * (- 2*\text{HH1b}(1,3,3,\text{plext.plext})*F^{-4} + 10/3*\text{HH1b}(1,3,3,\text{plext.plext})*F^{-4}* \sinx^2 - 4/3*\text{HH1b}(1,3,3,\text{plext.plext})*F^{-4}* \sinx^4 - 8/3*\text{HH1b}(1,3,8,\text{plext.plext})*F^{-4}* \sinx^2 + 8/3*\text{HH1b}(1,3,8,\text{plext.plext})*F^{-4}* \sinx^4 - 2/3*\text{HH1b}(1,8,8,\text{plext.plext})*F^{-4}* \sinx^2 - 4/3*\text{HH1b}(1,8,8,\text{plext.plext})*F^{-4}* \sinx^4 - 2*\text{HH1b}(3,4,7,\text{plext.plext})*F^{-4}* \sqrt{3}^{-1}* \sinx*\cosx + \text{HH1b}(3,4,7,\text{plext.plext})*F^{-4} - 2*\text{HH1b}(3,4,7,\text{plext.plext})*F^{-4}* \sinx^2 - 4*\text{HH1b}(4,3,7,\text{plext.plext})*F^{-4}* \sqrt{3}^{-1}* \sinx*\cosx + 2*\text{HH1b}(4,7,8,\text{plext.plext})*F^{-4}* \sqrt{3}^{-1}* \sinx*\cosx + \text{HH1b}(4,7,8,\text{plext.plext})*F^{-4} - 2*\text{HH1b}(4,7,8,\text{plext.plext})*F^{-4}* \sinx^2 - 2*\text{HH1b}(7,4,8,\text{plext.plext})*F^{-4}* \sqrt{3}^{-1}* \sinx*\cosx + \text{HH1b}(7,4,8,\text{plext.plext})*F^{-4} - 2*\text{HH1b}(7,4,8,\text{plext.plext})*F^{-4}* \sinx^2 + \text{Hb}(1,3,3,\text{plext.plext})*F^{-4} - 5/3*\text{Hb}(1,3,3,\text{plext.plext})*F^{-4}* \sinx^2 + 13/18*\text{Hb}(1,3,3,\text{plext.plext})*F^{-4}* \sinx^4 + 13/9*\text{Hb}(1,3,8,\text{plext.plext})*F^{-4}* \sinx^2 - 13/9*\text{Hb}(1,3,8,\text{plext.plext})*F^{-4}* \sinx^4 + 1/18*\text{Hb}(1,8,8,\text{plext.plext})*F^{-4} + 2/9*\text{Hb}(1,8,8,\text{plext.plext})*F^{-4}* \sinx^2 + 13/18*\text{Hb}(1,8,8,\text{plext.plext})*F^{-4}* \sinx^4 + 1/2*\text{Hb}(2,1,1,\text{plext.plext})*F^{-4} + 2*\text{Hb}(3,4,7,\text{plext.plext})*F^{-4}* \sqrt{3}^{-1}* \sinx*\cosx - 5/8*\text{Hb}(3,4,7,\text{plext.plext})*F^{-4} + 2/3*\text{Hb}(3,4,7,\text{plext.plext})*F^{-4}* \sinx^2 + 1/4*\text{Hb}(4,3,7,\text{plext.plext})*F^{-4}* \sqrt{3}^{-1}* \sinx*\cosx - 1/4*\text{Hb}(4,7,8,\text{plext.plext})*F^{-4}* \sqrt{3}^{-1}* \sinx*\cosx - 5/6*\text{Hb}(4,7,8,\text{plext.plext})*F^{-4} + 4/3*\text{Hb}(4,7,8,\text{plext.plext})*F^{-4}* \sinx^2 - 1/4*\text{Hb}(7,3,4,\text{plext.plext})*F^{-4}* \sqrt{3}^{-1}* \sinx*\cosx + 1/4*\text{Hb}(7,4,8,\text{plext.plext})*F^{-4}* \sqrt{3}^{-1}* \sinx*\cosx - 1/8*\text{Hb}(8,4,7,\text{plext.plext})*F^{-4} + 3/2*\text{H21b}(1,3,3,\text{plext.plext})*F^{-4} - 3*\text{H21b}(1,3,3,\text{plext.plext})*F^{-4}* \sinx^2 + 3/2*\text{H21b}(1,3,3,\text{plext.plext})*F^{-4}* \sinx^4 + 3/2*\text{H21b}(1,8,8,\text{plext.plext})*F^{-4}* \sinx^2 - 3*\text{H21b}(1,3,8,\text{plext.plext})*F^{-4}* \sinx^4 + 3/2*\text{H21b}(3,4,7,\text{plext.plext})*F^{-4} + 3/2*\text{H21b}(3,4,7,\text{plext.plext})*F^{-4}* \sinx^2 + 9/4*\text{H21b}(4,3,7,\text{plext.plext})*F^{-4}* \sqrt{3}^{-1}* \sinx*\cosx + 3/4*\text{H21b}(4,3,7,\text{plext.plext})*F^{-4} - 3/4*\text{H21b}(4,3,7,\text{plext.plext})*F^{-4}* \sinx^2 - 9/4*\text{H21b}(4,7,8,\text{plext.plext})*F^{-4}* \sqrt{3}^{-1}* \sinx*\cosx + 3/4*\text{H21b}(4,7,8,\text{plext.plext})*F^{-4}* \sinx^2 + 3/4*\text{H21b}(5,1,4,\text{plext.plext})*F^{-4} + 3/4*\text{H21b}(6,1,7,\text{plext.plext})*F^{-4} - 9/4*\text{H21b}(7,3,4,\text{plext.plext})*F^{-4}* \sqrt{3}^{-1}* \sinx*\cosx + 3/4*\text{H21b}(7,3,4,\text{plext.plext})*F^{-4} - 3/4*\text{H21b}(7,3,4,\text{plext.plext})*F^{-4}* \sinx^2 + 9/4*\text{H21b}(7,4,8,\text{plext.plext})*F^{-4}* \sqrt{3}^{-1}* \sinx*\cosx + 3/4*\text{H21b}(7,4,8,\text{plext.plext})*F^{-4}* \sinx^2 + 9/8*\text{H21b}(8,4,7,\text{plext.plext})*F^{-4} - 3/2*\text{H21b}(8,4,7,\text{plext.plext})*F^{-4}* \sinx^2) \\
\end{aligned}$$

$$\begin{aligned}
& + \text{mpp2}^2 * \text{mkp2} * (- 139/55296 * F^{-4} * \pi^{-4} - 37/82944 * F^{-4} * \pi^{-2} + \\
& 4/9 * F^{-4} * L_{8r} * \pi^{-2} + 8/9 * F^{-4} * L_{7r} * \pi^{-2} + 8/9 * F^{-4} * L_{6r} * \pi^{-2} - 2/27 * F^{-4} * \\
& L_{5r} * \pi^{-2} - 256 * F^{-4} * L_{5r} * L_{6r} - 4/9 * F^{-4} * L_{4r} * \pi^{-2} - 256 * F^{-4} * L_{4r} * L_{8r} \\
& - 512 * F^{-4} * L_{4r} * L_{6r} + 256 * F^{-4} * L_{4r} * L_{5r} + 256 * F^{-4} * L_{4r}^2 - 1/27 * F^{-4} * \\
& L_{3r} * \pi^{-2} - 1/9 * F^{-4} * L_{2r} * \pi^{-2} + 64 * F^{-4} * CC32 + 192 * F^{-4} * CC21 + \\
& 64 * F^{-4} * CC16 - 32 * F^{-4} * CC15 - 64 * F^{-4} * CC13 - 1/512 * \ln(1) * F^{-4} * \pi^{-4} - \\
& 1/648 * \ln(1) * \ln(3) * F^{-4} * \sin^2 \pi^{-4} + 1/648 * \ln(1) * \ln(3) * F^{-4} * \sin^4 \pi^{-4} \\
& - 1/1024 * \ln(1) * \ln(4) * F^{-4} * \pi^{-4} - 1/1024 * \ln(1) * \ln(6) * F^{-4} * \pi^{-4} + \\
& 1/648 * \ln(1) * \ln(8) * F^{-4} * \sin^2 \pi^{-4} - 1/648 * \ln(1) * \ln(8) * F^{-4} * \sin^4 \pi^{-4} - \\
& 1/512 * \ln(3) * F^{-4} * \pi^{-4} + 2 * \ln(3) * F^{-4} * L_{6r} * \pi^{-2} - 3/2 * \ln(3) * F^{-4} * L_{4r} * \pi^{-2} \\
& + 41/41472 * \ln(3) * F^{-4} * \sin^2 \pi^{-4} + 116/27 * \ln(3) * F^{-4} * \sin^2 L_{8r} * \pi^{-2} \\
& + 116/9 * \ln(3) * F^{-4} * \sin^2 L_{7r} * \pi^{-2} - 4/3 * \ln(3) * F^{-4} * \sin^2 L_{6r} * \pi^{-2} \\
& + 7/9 * \ln(3) * F^{-4} * \sin^2 L_{4r} * \pi^{-2} + 2/9 * \ln(3) * F^{-4} * \sin^2 L_{3r} * \pi^{-2} \\
& + 2/9 * \ln(3) * F^{-4} * \sin^2 L_{2r} * \pi^{-2} + 8/9 * \ln(3) * F^{-4} * \sin^2 L_{1r} * \pi^{-2} - \\
& 128/27 * \ln(3) * F^{-4} * \sin^4 L_{8r} * \pi^{-2} - 128/9 * \ln(3) * F^{-4} * \sin^4 L_{7r} * \pi^{-2} - \\
& 13/3456 * \ln(3)^2 * F^{-4} * \sin^2 \pi^{-4} + 25/10368 * \ln(3)^2 * F^{-4} * \sin^4 \pi^{-4} \\
& + 1/1296 * \ln(3)^2 * F^{-4} * \sin^6 \pi^{-4} + 29/13824 * \ln(3) * \ln(4) * F^{-4} * \sqrt{3} * \\
& \sin^2 \pi^{-4} * \cos^2 \pi^{-4} - 293/82944 * \ln(3) * \ln(4) * F^{-4} * \sin^2 \pi^{-4} + 5/1296 * \ln(3) * \ln(4) * F^{-4} * \\
& \sin^4 \pi^{-4} - 29/13824 * \ln(3) * \ln(6) * F^{-4} * \sqrt{3} * \sin^2 \pi^{-4} * \cos^2 \pi^{-4} - \\
& 293/82944 * \ln(3) * \ln(6) * F^{-4} * \sin^2 \pi^{-4} + 5/1296 * \ln(3) * \ln(6) * F^{-4} * \\
& \sin^4 \pi^{-4} - 1/1152 * \ln(3) * \ln(8) * F^{-4} * \pi^{-4} + 1/5184 * \ln(3) * \ln(8) * F^{-4} * \\
& \sin^2 \pi^{-4} + 7/5184 * \ln(3) * \ln(8) * F^{-4} * \sin^4 \pi^{-4} - 1/648 * \ln(3) * \ln(8) * F^{-4} * \\
& \sin^6 \pi^{-4} - 1/864 * \ln(4) * F^{-4} * \sqrt{3} * \sin^2 \pi^{-4} * \cos^2 \pi^{-4} - 29/13824 * \ln(4) * \ln(8) * F^{-4} * \\
& \sqrt{3} * \sin^2 \pi^{-4} * \cos^2 \pi^{-4} + 1/3072 * \ln(4) * \ln(8) * F^{-4} * \pi^{-4} + 293/82944 * \ln(4) * \ln(8) * F^{-4} * \\
& \sin^2 \pi^{-4} - 5/1296 * \ln(4) * \ln(8) * F^{-4} * \sin^4 \pi^{-4} + 1/864 * \ln(6) * F^{-4} * \\
& \sqrt{3} * \sin^2 \pi^{-4} * \cos^2 \pi^{-4} + 29/13824 * \ln(6) * \ln(8) * F^{-4} * \sqrt{3} * \sin^2 \pi^{-4} * \cos^2 \pi^{-4} - \\
& 4 + 1/3072 * \ln(6) * \ln(8) * F^{-4} * \pi^{-4} + 293/82944 * \ln(6) * \ln(8) * F^{-4} * \sin^2 \pi^{-4} - \\
& 5/1296 * \ln(6) * \ln(8) * F^{-4} * \sin^4 \pi^{-4} - 5/5184 * \ln(8) * F^{-4} * \pi^{-4} - \\
& 4/9 * \ln(8) * F^{-4} * L_{8r} * \pi^{-2} - 4/3 * \ln(8) * F^{-4} * L_{7r} * \pi^{-2} + 2/3 * \ln(8) * F^{-4} * \\
& L_{6r} * \pi^{-2} - 13/18 * \ln(8) * F^{-4} * L_{4r} * \pi^{-2} + 2/9 * \ln(8) * F^{-4} * L_{3r} * \pi^{-2} + \\
& 2/9 * \ln(8) * F^{-4} * L_{2r} * \pi^{-2} + 8/9 * \ln(8) * F^{-4} * L_{1r} * \pi^{-2} - 41/41472 * \ln(8) * F^{-4} * \\
& \sin^2 \pi^{-4} - 116/27 * \ln(8) * F^{-4} * \sin^2 L_{8r} * \pi^{-2} - 116/9 * \ln(8) * F^{-4} * \\
& \sin^2 L_{7r} * \pi^{-2} + 4/3 * \ln(8) * F^{-4} * \sin^2 L_{6r} * \pi^{-2} - 7/9 * \ln(8) * F^{-4} * \\
& \sin^2 L_{4r} * \pi^{-2} - 2/9 * \ln(8) * F^{-4} * \sin^2 L_{3r} * \pi^{-2} - 2/9 * \ln(8) * F^{-4} * \\
& \sin^2 L_{2r} * \pi^{-2} - 8/9 * \ln(8) * F^{-4} * \sin^2 L_{1r} * \pi^{-2} + 128/27 * \ln(8) * F^{-4} * \\
& \sin^4 L_{8r} * \pi^{-2} + 128/9 * \ln(8) * F^{-4} * \sin^4 L_{7r} * \pi^{-2} - 1/1728 * \ln(8)^2 * F^{-4} * \\
& \pi^{-4} + 37/10368 * \ln(8)^2 * F^{-4} * \sin^2 \pi^{-4} - 13/3456 * \ln(8)^2 * F^{-4} * \\
& \sin^4 \pi^{-4} + 1/1296 * \ln(8)^2 * F^{-4} * \sin^6 \pi^{-4}) \\
& + \text{mpp2}^2 * \text{mkp2}^2 * (+ 7/20736 / (\text{mass}(3)) * \ln(3)^2 * F^{-4} * \sin^2 \pi^{-4} \\
& - 5/13824 / (\text{mass}(4)) * \ln(4)^2 * F^{-4} * \pi^{-4} + 1/27648 / (\text{mass}(5)) * \ln(4)^2 * F^{-4} * \\
& \pi^{-4} + 1/27648 / (\text{mass}(6)) * \ln(6)^2 * F^{-4} * \pi^{-4} - 5/13824 / (\text{mass}(7)) * \ln(6)^2 * F^{-4} * \\
& \pi^{-4} + 7/20736 / (\text{mass}(8)) * \ln(8)^2 * F^{-4} * \pi^{-4} - 7/20736 / (\text{mass}(8)) * \ln(8)^2 * F^{-4} * \\
& \sin^2 \pi^{-4}) \\
& + \text{mpp2}^3 * (- 3217/442368 * F^{-4} * \pi^{-4} - 527/331776 * F^{-4} * \pi^{-2} + 1/3 * F^{-4} * \\
& L_{8r} * \pi^{-2} - 4/9 * F^{-4} * L_{7r} * \pi^{-2} + 5/9 * F^{-4} * L_{6r} * \pi^{-2} - 13/54 * F^{-4} *
\end{aligned}$$

$$\begin{aligned}
& 4*L5r*pi^{-2} - 128*F^{-4}*L5r*L8r - 128*F^{-4}*L5r*L6r + 64*F^{-4}*L5r^2 - \\
& 5/18*F^{-4}*L4r*pi^{-2} - 128*F^{-4}*L4r*L8r - 128*F^{-4}*L4r*L6r + 128*F^{-4}*L4r*L5r \\
& + 64*F^{-4}*L4r^2 + 7/54*F^{-4}*L3r*pi^{-2} + 37/72*F^{-4}*L2r*pi^{-2} \\
& + 1/4*F^{-4}*L1r*pi^{-2} + 32*F^{-4}*CC32 + 32*F^{-4}*CC31 + 48*F^{-4}*CC21 \\
& + 80*F^{-4}*CC20 + 48*F^{-4}*CC19 - 16*F^{-4}*CC17 - 48*F^{-4}*CC16 \\
& - 16*F^{-4}*CC15 - 16*F^{-4}*CC14 - 32*F^{-4}*CC13 - 32*F^{-4}*CC12 + \\
& 1/4608*ln(1)*F^{-4}*pi^{-4} - 2*ln(1)*F^{-4}*L8r*pi^{-2} - 4*ln(1)*F^{-4}*L6r*pi^{-2} + \\
& ln(1)*F^{-4}*L5r*pi^{-2} + 2*ln(1)*F^{-4}*L4r*pi^{-2} - 5/4*ln(1)*F^{-4}*L3r*pi^{-2} \\
& - 7/4*ln(1)*F^{-4}*L2r*pi^{-2} - 5/2*ln(1)*F^{-4}*L1r*pi^{-2} - 1/512*ln(1)^2*F^{-4}*pi^{-4} \\
& + 1/512*ln(1)*ln(3)*F^{-4}*pi^{-4} + 1/1296*ln(1)*ln(3)*F^{-4}*sinx^2*pi^{-4} - \\
& 4 - 13/5184*ln(1)*ln(3)*F^{-4}*sinx^4*pi^{-4} + 1/4608*ln(1)*ln(8)*F^{-4}*pi^{-4} \\
& - 1/1296*ln(1)*ln(8)*F^{-4}*sinx^2*pi^{-4} + 13/5184*ln(1)*ln(8)*F^{-4}*sinx^4*pi^{-4} \\
& - 13/4608*ln(3)*F^{-4}*pi^{-4} + 1/2*ln(3)*F^{-4}*L8r*pi^{-2} - 1/4*ln(3)*F^{-4}*L5r*pi^{-2} \\
& + 1/4*ln(3)*F^{-4}*L4r*pi^{-2} - 1/2*ln(3)*F^{-4}*L3r*pi^{-2} - 1/4*ln(3)*F^{-4}*L2r*pi^{-2} \\
& - ln(3)*F^{-4}*L1r*pi^{-2} + 439/124416*ln(3)*F^{-4}*sinx^2*pi^{-4} - 196/81*ln(3)*F^{-4}*sinx^2*L8r*pi^{-2} \\
& - 160/27*ln(3)*F^{-4}*sinx^2*L7r*pi^{-2} + 2/9*ln(3)*F^{-4}*sinx^2*L5r*pi^{-2} - 2/9*ln(3)*F^{-4}*sinx^2*L4r*pi^{-2} \\
& + 17/36*ln(3)*F^{-4}*sinx^2*L3r*pi^{-2} + 2/9*ln(3)*F^{-4}*sinx^2*L2r*pi^{-2} + 8/9*ln(3)*F^{-4}*sinx^2*L1r*pi^{-2} \\
& - 1/1944*ln(3)*F^{-4}*sinx^4*pi^{-4} + 160/81*ln(3)*F^{-4}*sinx^4*L8r*pi^{-2} + 160/27*ln(3)*F^{-4}*sinx^4*L7r*pi^{-2} \\
& - 1/2048*ln(3)^2*F^{-4}*pi^{-4} + 293/124416*ln(3)^2*F^{-4}*sinx^2*pi^{-4} - 127/41472*ln(3)^2*F^{-4}*sinx^4*pi^{-4} \\
& + 5/3888*ln(3)^2*F^{-4}*sinx^6*pi^{-4} + 25/82944*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - \\
& 13/10368*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} + 7/10368*ln(3)*ln(4)*F^{-4}*sinx^2*pi^{-4} \\
& - 7/10368*ln(3)*ln(4)*F^{-4}*sinx^4*pi^{-4} - 25/82944*ln(3)*ln(6)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} \\
& + 13/10368*ln(3)*ln(6)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} + 7/10368*ln(3)*ln(6)*F^{-4}*sinx^2*pi^{-4} \\
& - 7/10368*ln(3)*ln(6)*F^{-4}*sinx^4*pi^{-4} + 1/3072*ln(3)*ln(8)*F^{-4}*pi^{-4} - 61/62208*ln(3)*ln(8)*F^{-4}*sinx^2*pi^{-4} \\
& + 221/62208*ln(3)*ln(8)*F^{-4}*sinx^4*pi^{-4} - 5/1944*ln(3)*ln(8)*F^{-4}*sinx^6*pi^{-4} - 25/82944*ln(4)*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} \\
& + 13/10368*ln(4)*ln(8)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} - 7/10368*ln(4)*ln(8)*F^{-4}*sinx^2*pi^{-4} \\
& + 7/10368*ln(4)*ln(8)*F^{-4}*sinx^4*pi^{-4} + 25/82944*ln(6)*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} \\
& - 13/10368*ln(6)*ln(8)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} - 7/10368*ln(6)*ln(8)*F^{-4}*sinx^2*pi^{-4} \\
& + 7/10368*ln(6)*ln(8)*F^{-4}*sinx^4*pi^{-4} + 1/5184*ln(8)*F^{-4}*pi^{-4} + 1/18*ln(8)*F^{-4}*L8r*pi^{-2} \\
& - 1/36*ln(8)*F^{-4}*L5r*pi^{-2} + 1/36*ln(8)*F^{-4}*L4r*pi^{-2} - 1/36*ln(8)*F^{-4}*L3r*pi^{-2} \\
& - 1/36*ln(8)*F^{-4}*L2r*pi^{-2} - 1/9*ln(8)*F^{-4}*L1r*pi^{-2} - 439/124416*ln(8)*F^{-4}*sinx^2*pi^{-4} \\
& + 196/81*ln(8)*F^{-4}*sinx^2*L8r*pi^{-2} + 160/27*ln(8)*F^{-4}*sinx^2*L7r*pi^{-2} - 2/9*ln(8)*F^{-4}*sinx^2*L5r*pi^{-2} \\
& + 2/9*ln(8)*F^{-4}*sinx^2*L4r*pi^{-2} - 17/36*ln(8)*F^{-4}*sinx^2*L3r*pi^{-2} - 2/9*ln(8)*F^{-4}*sinx^2*L2r*pi^{-2} \\
& - 8/9*ln(8)*F^{-4}*sinx^2*L1r*pi^{-2} + 1/1944*ln(8)*F^{-4}*sinx^4*pi^{-4} - 160/81*ln(8)*F^{-4}*sinx^4*L8r*pi^{-2} \\
& - 160/27*ln(8)*F^{-4}*sinx^4*L7r*pi^{-2} + 5/55296*ln(8)^2*F^{-4}*pi^{-4} - 19/13824*ln(8)^2*F^{-4}*sinx^2*pi^{-4} \\
& - 61/124416*ln(8)^2*F^{-4}*sinx^4*pi^{-4} + 5/3888*ln(8)^2*F^{-4}*sinx^6*pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& + \text{mpp}2^3 \text{mkp}2 * (- 11/9216/(\text{mass}(1))^{\ln(1)^2} F^{-4} \pi^{-4} + 1/4608/(\text{mass}(2))^{\ln(1)^2} F^{-4} \pi^{-4} - 1/1024/(\text{mass}(3))^{\ln(3)^2} F^{-4} \pi^{-4} + 47/41472/(\text{mass}(3))^{\ln(3)^2} F^{-4} \sin x^2 \pi^{-4} + 13/82944/(\text{mass}(8))^{\ln(8)^2} F^{-4} \pi^{-4} - 47/41472/(\text{mass}(8))^{\ln(8)^2} F^{-4} \sin x^2 \pi^{-4}) \\
& + \text{mpp}2^4 * (- 37/6144/(\text{mass}(1))^{\ln(1)^2} F^{-4} \pi^{-4} - 35/18432/(\text{mass}(2))^{\ln(1)^2} F^{-4} \pi^{-4} - 7/4096/(\text{mass}(3))^{\ln(3)^2} F^{-4} \pi^{-4} + 139/82944/(\text{mass}(3))^{\ln(3)^2} F^{-4} \sin x^2 \pi^{-4} - 11/331776/(\text{mass}(8))^{\ln(8)^2} F^{-4} \pi^{-4} - 139/82944/(\text{mass}(8))^{\ln(8)^2} F^{-4} \sin x^2 \pi^{-4}) \\
& + \text{mud} * \text{mkp}2^2 * (- 8/9 F^{-4} \sqrt{3}^{-1} \sin x \cos x L8r \pi^{-2} - 8/3 F^{-4} \sqrt{3}^{-1} \sin x \cos x L7r \pi^{-2} + 1/1728 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 4/9 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L8r \pi^{-2} - 4/3 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L7r \pi^{-2} - 1/648 \ln(3) F^{-4} \sin^2 \pi^{-4} - 32/27 \ln(3) F^{-4} \sin^2 L8r \pi^{-2} - 32/9 \ln(3) F^{-4} \sin^2 L7r \pi^{-2} + 1/648 \ln(3) F^{-4} \sin^4 \pi^{-4} + 32/27 \ln(3) F^{-4} \sin^4 L8r \pi^{-2} + 32/9 \ln(3) F^{-4} \sin^4 L7r \pi^{-2} + 1/2592 \ln(3)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 1/1296 \ln(3)^2 F^{-4} \sin^2 \pi^{-4} + 1/432 \ln(3)^2 F^{-4} \sin^4 \pi^{-4} - 1/648 \ln(3)^2 F^{-4} \sin^6 \pi^{-4} - 7/6912 \ln(3) \ln(4) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 1/864 \ln(3) \ln(4) F^{-4} \sqrt{3}^{-1} \sin^3 \cos x \pi^{-4} - 1/20736 \ln(3) \ln(4) F^{-4} \pi^{-4} + 1/864 \ln(3) \ln(4) F^{-4} \sin^2 \pi^{-4} - 1/864 \ln(3) \ln(4) F^{-4} \sin^4 \pi^{-4} + 13/6912 \ln(3) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 1/864 \ln(3) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^3 \cos x \pi^{-4} + 1/20736 \ln(3) \ln(6) F^{-4} \pi^{-4} + 1/864 \ln(3) \ln(6) F^{-4} \sin^2 \pi^{-4} - 1/864 \ln(3) \ln(6) F^{-4} \sin^4 \pi^{-4} - 1/5184 \ln(3) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 1/324 \ln(3) \ln(8) F^{-4} \sin^2 \pi^{-4} - 1/162 \ln(3) \ln(8) F^{-4} \sin^4 \pi^{-4} + 1/324 \ln(3) \ln(8) F^{-4} \sin^6 \pi^{-4} - 1/6912 \ln(4) F^{-4} \pi^{-4} + 7/6912 \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 1/864 \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^3 \cos x \pi^{-4} + 1/20736 \ln(4) \ln(8) F^{-4} \pi^{-4} - 1/864 \ln(4) \ln(8) F^{-4} \sin^2 \pi^{-4} + 1/576 \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 1/6912 \ln(6) F^{-4} \pi^{-4} - 13/6912 \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 1/864 \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^3 \cos x \pi^{-4} - 1/20736 \ln(6) \ln(8) F^{-4} \pi^{-4} - 1/864 \ln(6) \ln(8) F^{-4} \sin^2 \pi^{-4} + 1/864 \ln(6) \ln(8) F^{-4} \sin^4 \pi^{-4} + 1/1728 \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 4/9 \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x L8r \pi^{-2} + 4/3 \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x L7r \pi^{-2} + 1/648 \ln(8) F^{-4} \sin^2 \pi^{-4} + 32/27 \ln(8) F^{-4} \sin^2 L8r \pi^{-2} + 32/9 \ln(8) F^{-4} \sin^2 L7r \pi^{-2} - 1/648 \ln(8) F^{-4} \sin^4 \pi^{-4} - 32/27 \ln(8) F^{-4} \sin^4 L8r \pi^{-2} - 32/9 \ln(8) F^{-4} \sin^4 L7r \pi^{-2} - 1/5184 \ln(8)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 1/432 \ln(8)^2 F^{-4} \sin^2 \pi^{-4} + 5/1296 \ln(8)^2 F^{-4} \sin^4 \pi^{-4} - 1/648 \ln(8)^2 F^{-4} \sin^6 \pi^{-4}) \\
& + \text{mud} * \text{mkp}2^3 * (- 5/27648/(\text{mass}(4))^{\ln(4)^2} F^{-4} \pi^{-4} + 5/27648/(\text{mass}(5))^{\ln(4)^2} F^{-4} \pi^{-4} + 23/9216/(\text{mass}(6))^{\ln(6)^2} F^{-4} \pi^{-4} - 23/9216/(\text{mass}(7))^{\ln(6)^2} F^{-4} \pi^{-4}) \\
& + \text{mud} * \text{mpp}2 * (+ 1/4 \text{Hb}(3,4,7, \text{plext}, \text{plext}) F^{-4} \sqrt{3}^{-1} \sin x \cos x - 1/4 \text{Hb}(3,4,7, \text{plext}, \text{plext}) F^{-4} \sin^2 + 1/8 \text{Hb}(4,3,7, \text{plext}, \text{plext}) F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}}^{-1} \sin x \cos x - 1/16 \text{Hb}(4,3,7, \text{plext.plext}) F^{-4} + 1/8 \text{Hb}(4,3,7, \text{plext.plext}) F^{-4} \sin^2 x - 1/8 \text{Hb}(4,7,8, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin x \cos x + 1/16 \text{Hb}(4,7,8, \text{plext.plext}) F^{-4} \\
& - 1/8 \text{Hb}(4,7,8, \text{plext.plext}) F^{-4} \sin^2 x - 1/4 \text{Hb}(6,1,7, \text{plext.plext}) F^{-4} + 5/8 \text{Hb}(7,3,4, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin x \cos x - 3/16 \text{Hb}(7,3,4, \text{plext.plext}) F^{-4} \\
& + 1/8 \text{Hb}(7,3,4, \text{plext.plext}) F^{-4} \sin^2 x - 5/8 \text{Hb}(7,4,8, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin x \cos x - 1/16 \text{Hb}(7,4,8, \text{plext.plext}) F^{-4} - 1/8 \text{Hb}(7,4,8, \text{plext.plext}) F^{-4} \sin^2 x - 1/4 \text{Hb}(8,4,7, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin x \cos x - 1/4 \text{Hb}(8,4,7, \text{plext.plext}) F^{-4} \\
& + 1/4 \text{Hb}(8,4,7, \text{plext.plext}) F^{-4} \sin^2 x \\
& + \text{mud} * \text{mpp2} * \text{mkp2} * (+ 16/9 F^{-4} \sqrt{3}^{-1} \sin x \cos x L8r \pi^{-2} + 16/3 F^{-4} \sqrt{3}^{-1} \sin x \cos x L7r \pi^{-2} + 15/4096 F^{-4} \pi^{-4} + 11/9216 F^{-4} \pi^{-2} + 4/9 F^{-4} L8r \pi^{-2} + 4/9 F^{-4} L7r \pi^{-2} + 4/9 F^{-4} L6r \pi^{-2} - 4/27 F^{-4} L5r \pi^{-2} - 2/9 F^{-4} L4r \pi^{-2} + 512 F^{-4} L4r L6r - 256 F^{-4} L4r^2 - 43/216 F^{-4} L3r \pi^{-2} - 13/18 F^{-4} L2r \pi^{-2} - 192 F^{-4} \text{CC21} - 64 F^{-4} \text{CC20} + 64 F^{-4} \text{CC16} - 1/864 \ln(1) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 1/3456 \ln(1) \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 1/1296 \ln(1) \ln(3) F^{-4} \sin^2 \pi^{-4} + 1/1296 \ln(1) \ln(3) F^{-4} \sin^4 \pi^{-4} + 1/3456 \ln(1) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 1/1296 \ln(1) \ln(8) F^{-4} \sin^2 \pi^{-4} - 1/1296 \ln(1) \ln(8) F^{-4} \sin^4 \pi^{-4} - 7/2304 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 14/9 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L8r \pi^{-2} - 2/3 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L7r \pi^{-2} - 4/3 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L6r \pi^{-2} + 2/3 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L5r \pi^{-2} + 5/3 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L4r \pi^{-2} - 5/6 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L3r \pi^{-2} - 2/3 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L2r \pi^{-2} - 8/3 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L1r \pi^{-2} + 1/1296 \ln(3) F^{-4} \sin^2 \pi^{-4} + 4 \ln(3) F^{-4} \sin^2 L8r \pi^{-2} + 28/3 \ln(3) F^{-4} \sin^2 L7r \pi^{-2} + 8/3 \ln(3) F^{-4} \sin^2 L6r \pi^{-2} - 4/9 \ln(3) F^{-4} \sin^2 L5r \pi^{-2} - 22/9 \ln(3) F^{-4} \sin^2 L4r \pi^{-2} + 4/9 \ln(3) F^{-4} \sin^2 L3r \pi^{-2} + 4/9 \ln(3) F^{-4} \sin^2 L2r \pi^{-2} + 16/9 \ln(3) F^{-4} \sin^2 L1r \pi^{-2} - 1/648 \ln(3) F^{-4} \sin^4 \pi^{-4} - 32/9 \ln(3) F^{-4} \sin^4 L8r \pi^{-2} - 32/3 \ln(3) F^{-4} \sin^4 L7r \pi^{-2} - 1/5184 \ln(3)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 1/648 \ln(3)^2 F^{-4} \sin^2 \pi^{-4} - 25/10368 \ln(3)^2 F^{-4} \sin^4 \pi^{-4} + 1/324 \ln(3)^2 F^{-4} \sin^6 \pi^{-4} + 29/13824 \ln(3) \ln(4) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 1/216 \ln(3) \ln(4) F^{-4} \sqrt{3}^{-1} \sin^3 \cos x \pi^{-4} - 4 - 65/165888 \ln(3) \ln(4) F^{-4} \pi^{-4} - 7/5184 \ln(3) \ln(4) F^{-4} \sin^2 \pi^{-4} + 1/324 \ln(3) \ln(4) F^{-4} \sin^4 \pi^{-4} - 37/13824 \ln(3) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 1/216 \ln(3) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^3 \cos x \pi^{-4} + 65/165888 \ln(3) \ln(6) F^{-4} \pi^{-4} - 7/5184 \ln(3) \ln(6) F^{-4} \sin^2 \pi^{-4} + 1/324 \ln(3) \ln(6) F^{-4} \sin^4 \pi^{-4} + 1/2592 \ln(3) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 17/5184 \ln(3) \ln(8) F^{-4} \sin^2 \pi^{-4} + 49/5184 \ln(3) \ln(8) F^{-4} \sin^4 \pi^{-4} - 1/162 \ln(3) \ln(8) F^{-4} \sin^6 \pi^{-4} - 1/576 \ln(4) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 29/13824 \ln(4) F^{-4} \pi^{-4} + 1/1024 \ln(4) \ln(6) F^{-4} \pi^{-4} - 29/13824 \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 1/216 \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^3 \cos x \pi^{-4} + 227/165888 \ln(4) \ln(8) F^{-4} \pi^{-4} + 7/5184 \ln(4) \ln(8) F^{-4} \sin^2 \pi^{-4} - 1/324 \ln(4) \ln(8) F^{-4} \sin^4 \pi^{-4} - 1/1728 \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 37/13824 \ln(6) F^{-4} \pi^{-4} +
\end{aligned}$$

$$\begin{aligned}
& 2*\ln(6)*F^{-4}*L8r*\pi^{-2} + 4*\ln(6)*F^{-4}*L6r*\pi^{-2} - \ln(6)*F^{-4}*L5r*\pi^{-2} \\
& - 4*\ln(6)*F^{-4}*L4r*\pi^{-2} + 5/4*\ln(6)*F^{-4}*L3r*\pi^{-2} + \ln(6)*F^{-4} \\
& *L2r*\pi^{-2} + 4*\ln(6)*F^{-4}*L1r*\pi^{-2} + 37/13824*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& *s\sin x*\cos x*\pi^{-4} - 1/216*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*s\sin x^3*\cos x*\pi^{-4} + \\
& 349/165888*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} + 7/5184*\ln(6)*\ln(8)*F^{-4}*s\sin x^2*\pi^{-4} \\
& - 1/324*\ln(6)*\ln(8)*F^{-4}*s\sin x^4*\pi^{-4} + 5/6912*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& *s\sin x*\cos x*\pi^{-4} + 14/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*s\sin x*\cos x*L8r*\pi^{-2} + \\
& 2/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*s\sin x*\cos x*L7r*\pi^{-2} + 4/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& *s\sin x*\cos x*L6r*\pi^{-2} - 2/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*s\sin x*\cos x*L5r*\pi^{-2} - \\
& 5/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*s\sin x*\cos x*L4r*\pi^{-2} + 5/6*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& *s\sin x*\cos x*L3r*\pi^{-2} + 2/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*s\sin x*\cos x*L2r*\pi^{-2} + \\
& 8/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*s\sin x*\cos x*L1r*\pi^{-2} - 1/1296*\ln(8)*F^{-4}*\pi^{-4} \\
& + 4/9*\ln(8)*F^{-4}*L8r*\pi^{-2} - 4/3*\ln(8)*F^{-4}*L7r*\pi^{-2} + 8/3*\ln(8)*F^{-4} \\
& *L6r*\pi^{-2} - 4/9*\ln(8)*F^{-4}*L5r*\pi^{-2} - 22/9*\ln(8)*F^{-4}*L4r*\pi^{-2} + \\
& 4/9*\ln(8)*F^{-4}*L3r*\pi^{-2} + 4/9*\ln(8)*F^{-4}*L2r*\pi^{-2} + 16/9*\ln(8)*F^{-4} \\
& *L1r*\pi^{-2} - 1/1296*\ln(8)*F^{-4}*s\sin x^2*\pi^{-4} - 4*\ln(8)*F^{-4}*s\sin x^2*L8r*\pi^{-2} \\
& - 28/3*\ln(8)*F^{-4}*s\sin x^2*L7r*\pi^{-2} - 8/3*\ln(8)*F^{-4}*s\sin x^2*L6r*\pi^{-2} \\
& + 4/9*\ln(8)*F^{-4}*s\sin x^2*L5r*\pi^{-2} + 22/9*\ln(8)*F^{-4}*s\sin x^2*L4r*\pi^{-2} \\
& - 4/9*\ln(8)*F^{-4}*s\sin x^2*L3r*\pi^{-2} - 4/9*\ln(8)*F^{-4}*s\sin x^2*L2r*\pi^{-2} \\
& - 16/9*\ln(8)*F^{-4}*s\sin x^2*L1r*\pi^{-2} + 1/648*\ln(8)*F^{-4}*s\sin x^4*\pi^{-4} + \\
& 32/9*\ln(8)*F^{-4}*s\sin x^4*L8r*\pi^{-2} + 32/3*\ln(8)*F^{-4}*s\sin x^4*L7r*\pi^{-2} - \\
& 1/5184*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*s\sin x*\cos x*\pi^{-4} - 1/1152*\ln(8)^2*F^{-4}*\pi^{-4} + \\
& 25/5184*\ln(8)^2*F^{-4}*s\sin x^2*\pi^{-4} - 73/10368*\ln(8)^2*F^{-4}*s\sin x^4*\pi^{-4} + \\
& 1/324*\ln(8)^2*F^{-4}*s\sin x^6*\pi^{-4}) \\
& + \text{mud}*\text{mpp}2^2*\text{mkp}2^2 * (- 5/1152/(\text{mass}(3))^*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*s\sin x*\cos x*\pi^{-4} \\
& + 1/384/(\text{mass}(3))^*\ln(3)^2*F^{-4}*s\sin x^2*\pi^{-4} + 23/27648/(\text{mass}(4))^*\ln(4)^2*F^{-4} \\
& *s\sin x^2*\pi^{-4} + 1/6912/(\text{mass}(5))^*\ln(4)^2*F^{-4}*\pi^{-4} + 377/110592/(\text{mass}(6))^*\ln(6)^2*F^{-4} \\
& *s\sin x^2*\pi^{-4} + 487/110592/(\text{mass}(7))^*\ln(6)^2*F^{-4}*\pi^{-4} + 5/1152/(\text{mass}(8))^*\ln(8)^2*F^{-4} \\
& *s\sin x^2*\pi^{-4} + 1/384/(\text{mass}(8))^*\ln(8)^2*F^{-4}*\pi^{-4} - 1/384/(\text{mass}(8))^*\ln(8)^2*F^{-4} \\
& *s\sin x^2*\pi^{-4}) \\
& + \text{mud}*\text{mpp}2^2 * (- 8/9*F^{-4}*\sqrt{3}^{-1}*s\sin x*\cos x*L8r*\pi^{-2} - 8/3*F^{-4} \\
& *\sqrt{3}^{-1}*s\sin x*\cos x*L7r*\pi^{-2} + 139/110592*F^{-4}*\pi^{-4} + 37/165888*F^{-4} \\
& *\pi^{-2} - 2/9*F^{-4}*L8r*\pi^{-2} - 4/9*F^{-4}*L7r*\pi^{-2} - 4/9*F^{-4}*L6r*\pi^{-2} \\
& + 1/27*F^{-4}*L5r*\pi^{-2} + 128*F^{-4}*L5r*L6r + 2/9*F^{-4}*L4r*\pi^{-2} + \\
& 128*F^{-4}*L4r*L8r + 256*F^{-4}*L4r*L6r - 128*F^{-4}*L4r*L5r - 128*F^{-4} \\
& *L4r^2 + 1/54*F^{-4}*L3r*\pi^{-2} + 1/18*F^{-4}*L2r*\pi^{-2} - 32*F^{-4}*CC32 \\
& - 96*F^{-4}*CC21 - 32*F^{-4}*CC16 + 16*F^{-4}*CC15 + 32*F^{-4}*CC13 + \\
& 5/1728*\ln(1)*F^{-4}*\sqrt{3}^{-1}*s\sin x*\cos x*\pi^{-4} + 1/1024*\ln(1)*F^{-4}*\pi^{-4} + \\
& 11/6912*\ln(1)*\ln(3)*F^{-4}*\sqrt{3}^{-1}*s\sin x*\cos x*\pi^{-4} + 1/1296*\ln(1)*\ln(3)*F^{-4} \\
& *s\sin x^2*\pi^{-4} - 1/1296*\ln(1)*\ln(3)*F^{-4}*s\sin x^4*\pi^{-4} + 1/1024*\ln(1)*\ln(6)*F^{-4} \\
& *s\sin x^2*\pi^{-4} - 11/6912*\ln(1)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*s\sin x*\cos x*\pi^{-4} - 1/1296*\ln(1)*\ln(8)*F^{-4} \\
& *s\sin x^2*\pi^{-4} + 1/1296*\ln(1)*\ln(8)*F^{-4}*s\sin x^4*\pi^{-4} - 85/27648*\ln(3)*F^{-4} \\
& *\sqrt{3}^{-1}*s\sin x*\cos x*\pi^{-4} - 2/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*s\sin x*\cos x*L6r*\pi^{-2} \\
& + 5/6*\ln(3)*F^{-4}*\sqrt{3}^{-1}*s\sin x*\cos x*L4r*\pi^{-2} - 2/3*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& *s\sin x*\cos x*L3r*\pi^{-2} - 1/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*s\sin x*\cos x*L2r*\pi^{-2} -
\end{aligned}$$

$$\begin{aligned}
& 4/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + 1/1024*\ln(3)*F^{-4}*\pi^{-4} \\
& - \ln(3)*F^{-4}*L6r*\pi^{-2} + 3/4*\ln(3)*F^{-4}*L4r*\pi^{-2} - 41/82944*\ln(3)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 58/27*\ln(3)*F^{-4}*\sin x^2*L8r*\pi^{-2} - 58/9*\ln(3)*F^{-4} \\
& * \sin x^2*L7r*\pi^{-2} + 2/3*\ln(3)*F^{-4}*\sin x^2*L6r*\pi^{-2} - 7/18*\ln(3)*F^{-4} \\
& * \sin x^2*L4r*\pi^{-2} - 1/9*\ln(3)*F^{-4}*\sin x^2*L3r*\pi^{-2} - 1/9*\ln(3)*F^{-4} \\
& * \sin x^2*L2r*\pi^{-2} - 4/9*\ln(3)*F^{-4}*\sin x^2*L1r*\pi^{-2} + 64/27*\ln(3)*F^{-4} \\
& * \sin x^4*L8r*\pi^{-2} + 64/9*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 31/20736*\ln(3)^2*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 13/6912*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 25/20736*\ln(3)^2*F^{-4} \\
& * \sin x^4*\pi^{-4} - 1/2592*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} - 19/18432*\ln(3)*\ln(4)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 25/331776*\ln(3)*\ln(4)*F^{-4}*\pi^{-4} + 293/165888*\ln(3)*\ln(4)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 5/2592*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + 59/55296*\ln(3)*\ln(6)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 25/331776*\ln(3)*\ln(6)*F^{-4}*\pi^{-4} + 293/165888*\ln(3)*\ln(6)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 5/2592*\ln(3)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + 5/20736*\ln(3)*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/2304*\ln(3)*\ln(8)*F^{-4}*\pi^{-4} - 1/10368*\ln(3)*\ln(8)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 7/10368*\ln(3)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 1/1296*\ln(3)*\ln(8)*F^{-4} \\
& * \sin x^6*\pi^{-4} + 19/18432*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 25/331776*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} - 293/165888*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} \\
& + 5/2592*\ln(4)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 1/864*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} - 59/55296*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& - 133/331776*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} - 293/165888*\ln(6)*\ln(8)*F^{-4} \\
& * \sin x^2*\pi^{-4} + 5/2592*\ln(6)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 13/3072*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 2/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} \\
& - 5/6*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + 2/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L3r*\pi^{-2} + 1/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} + \\
& 4/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + 5/10368*\ln(8)*F^{-4}*\pi^{-4} \\
& + 2/9*\ln(8)*F^{-4}*L8r*\pi^{-2} + 2/3*\ln(8)*F^{-4}*L7r*\pi^{-2} - 1/3*\ln(8)*F^{-4} \\
& * L6r*\pi^{-2} + 13/36*\ln(8)*F^{-4}*L4r*\pi^{-2} - 1/9*\ln(8)*F^{-4}*L3r*\pi^{-2} - \\
& 1/9*\ln(8)*F^{-4}*L2r*\pi^{-2} - 4/9*\ln(8)*F^{-4}*L1r*\pi^{-2} + 41/82944*\ln(8)*F^{-4} \\
& * \sin x^2*\pi^{-4} + 58/27*\ln(8)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 58/9*\ln(8)*F^{-4} \\
& * \sin x^2*L7r*\pi^{-2} - 2/3*\ln(8)*F^{-4}*\sin x^2*L6r*\pi^{-2} + 7/18*\ln(8)*F^{-4} \\
& * \sin x^2*L4r*\pi^{-2} + 1/9*\ln(8)*F^{-4}*\sin x^2*L3r*\pi^{-2} + 1/9*\ln(8)*F^{-4} \\
& * \sin x^2*L2r*\pi^{-2} + 4/9*\ln(8)*F^{-4}*\sin x^2*L1r*\pi^{-2} - 64/27*\ln(8)*F^{-4} \\
& * \sin x^4*L8r*\pi^{-2} - 64/9*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 13/10368*\ln(8)^2*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/3456*\ln(8)^2*F^{-4}*\pi^{-4} - 37/20736*\ln(8)^2*F^{-4} \\
& * \sin x^2*\pi^{-4} + 13/6912*\ln(8)^2*F^{-4}*\sin x^4*\pi^{-4} - 1/2592*\ln(8)^2*F^{-4} \\
& * \sin x^6*\pi^{-4}) \\
& + \text{mud}*\text{mpp}2^2*\text{mkp}2 * (- 5/2304/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& - 7/20736/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 1/13824/(\text{mass}(6))*\ln(6)^2*F^{-4} \\
& * \pi^{-4} + 5/6912/(\text{mass}(7))*\ln(6)^2*F^{-4}*\pi^{-4} + 5/2304/(\text{mass}(8))*\ln(8)^2*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 7/20736/(\text{mass}(8))*\ln(8)^2*F^{-4}*\pi^{-4} + \\
& 7/20736/(\text{mass}(8))*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4}) \\
& + \text{mud}*\text{mpp}2^3 * (+ 11/18432/(\text{mass}(1))*\ln(1)^2*F^{-4}*\pi^{-4} - 1/9216/(\text{mass}(2))*\ln(1)^2*F^{-4} \\
& * \pi^{-4} - 31/9216/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 1/2048/(\text{mass}(3))*\ln(3)^2*F^{-4}*\pi^{-4} - 47/82944/(\text{mass}(3))*\ln(3)^2*F^{-4} \\
& * \sin x^2*\pi^{-4} + 31/9216/(\text{mass}(8))*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} -
\end{aligned}$$

$$\begin{aligned}
& 13/165888/(\text{mass}(8))^{\wedge}2 * F^{\wedge}4 * \pi^{\wedge}4 + 47/82944/(\text{mass}(8))^{\wedge}2 * F^{\wedge}4 * \sin x^2 * \pi^{\wedge}4) \\
& + \text{mud}^{\wedge}2 * \text{mkp}2 * (+ 8/9 * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * L8r * \pi^{\wedge}2 + 8/3 * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * L7r * \pi^{\wedge}2 - 1/1728 * \ln(3) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * \pi^{\wedge}4 \\
& + 4/9 * \ln(3) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * L8r * \pi^{\wedge}2 + 4/3 * \ln(3) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * L7r * \pi^{\wedge}2 - 1/20736 * \ln(3) * F^{\wedge}4 * \pi^{\wedge}4 - 1/27 * \ln(3) * F^{\wedge}4 * L8r * \pi^{\wedge}2 \\
& - 1/9 * \ln(3) * F^{\wedge}4 * L7r * \pi^{\wedge}2 + 1/1296 * \ln(3) * F^{\wedge}4 * \sin x^2 * \pi^{\wedge}4 + 16/27 * \ln(3) * F^{\wedge}4 * \sin x^2 * L8r * \pi^{\wedge}2 + 16/9 * \ln(3) * F^{\wedge}4 * \sin x^2 * L7r * \pi^{\wedge}2 - 1/1296 * \ln(3) * F^{\wedge}4 * \sin x^4 * \pi^{\wedge}4 \\
& - 16/27 * \ln(3) * F^{\wedge}4 * \sin x^4 * L8r * \pi^{\wedge}2 - 16/9 * \ln(3) * F^{\wedge}4 * \sin x^4 * L7r * \pi^{\wedge}2 - 1/2592 * \ln(3)^{\wedge}2 * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * \pi^{\wedge}4 + 1/2592 * \ln(3)^{\wedge}2 * F^{\wedge}4 * \sin x^2 * \pi^{\wedge}4 \\
& - 1/864 * \ln(3)^{\wedge}2 * F^{\wedge}4 * \sin x^4 * \pi^{\wedge}4 + 1/1296 * \ln(3)^{\wedge}2 * F^{\wedge}4 * \sin x^6 * \pi^{\wedge}4 + 1/6912 * \ln(3) * \ln(4) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * \pi^{\wedge}4 \\
& - 1/1728 * \ln(3) * \ln(4) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x^3 * \cos x * \pi^{\wedge}4 + 7/82944 * \ln(3) * \ln(4) * F^{\wedge}4 * \pi^{\wedge}4 - 1/1728 * \ln(3) * \ln(4) * F^{\wedge}4 * \sin x^2 * \pi^{\wedge}4 \\
& + 1/1728 * \ln(3) * \ln(4) * F^{\wedge}4 * \sin x^4 * \pi^{\wedge}4 - 7/6912 * \ln(3) * \ln(6) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * \pi^{\wedge}4 + 1/1728 * \ln(3) * \ln(6) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x^3 * \cos x * \pi^{\wedge}4 \\
& - 1/82944 * \ln(3) * \ln(6) * F^{\wedge}4 * \pi^{\wedge}4 - 1/1728 * \ln(3) * \ln(6) * F^{\wedge}4 * \sin x^2 * \pi^{\wedge}4 + 1/1728 * \ln(3) * \ln(6) * F^{\wedge}4 * \sin x^4 * \pi^{\wedge}4 + 1/5184 * \ln(3) * \ln(8) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * \pi^{\wedge}4 \\
& + 1/20736 * \ln(3) * \ln(8) * F^{\wedge}4 * \pi^{\wedge}4 - 1/648 * \ln(3) * \ln(8) * F^{\wedge}4 * \sin x^2 * \pi^{\wedge}4 + 1/324 * \ln(3) * \ln(8) * F^{\wedge}4 * \sin x^4 * \pi^{\wedge}4 - 1/648 * \ln(3) * \ln(8) * F^{\wedge}4 * \sin x^6 * \pi^{\wedge}4 \\
& - 1/1728 * \ln(4) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * \pi^{\wedge}4 + 1/6912 * \ln(4) * F^{\wedge}4 * \pi^{\wedge}4 - 1/6912 * \ln(4) * \ln(8) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * \pi^{\wedge}4 + 1/1728 * \ln(4) * \ln(8) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x^3 * \cos x * \pi^{\wedge}4 \\
& - 7/82944 * \ln(4) * \ln(8) * F^{\wedge}4 * \pi^{\wedge}4 + 1/1728 * \ln(4) * \ln(8) * F^{\wedge}4 * \sin x^2 * \pi^{\wedge}4 - 1/1728 * \ln(4) * \ln(8) * F^{\wedge}4 * \sin x^4 * \pi^{\wedge}4 - 1/864 * \ln(6) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * \pi^{\wedge}4 \\
& - 1/6912 * \ln(6) * F^{\wedge}4 * \pi^{\wedge}4 + 7/6912 * \ln(6) * \ln(8) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * \pi^{\wedge}4 - 1/1728 * \ln(6) * \ln(8) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x^3 * \cos x * \pi^{\wedge}4 \\
& + 1/82944 * \ln(6) * \ln(8) * F^{\wedge}4 * \pi^{\wedge}4 + 1/1728 * \ln(6) * \ln(8) * F^{\wedge}4 * \sin x^2 * \pi^{\wedge}4 - 1/1728 * \ln(6) * \ln(8) * F^{\wedge}4 * \sin x^4 * \pi^{\wedge}4 - 1/1728 * \ln(8) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * \pi^{\wedge}4 \\
& - 4/9 * \ln(8) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * L8r * \pi^{\wedge}2 - 4/3 * \ln(8) * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * L7r * \pi^{\wedge}2 + 1/20736 * \ln(8) * F^{\wedge}4 * \pi^{\wedge}4 + 1/27 * \ln(8) * F^{\wedge}4 * L8r * \pi^{\wedge}2 \\
& + 1/9 * \ln(8) * F^{\wedge}4 * L7r * \pi^{\wedge}2 - 1/1296 * \ln(8) * F^{\wedge}4 * \sin x^2 * \pi^{\wedge}4 - 16/27 * \ln(8) * F^{\wedge}4 * \sin x^2 * L8r * \pi^{\wedge}2 - 16/9 * \ln(8) * F^{\wedge}4 * \sin x^2 * L7r * \pi^{\wedge}2 \\
& + 1/1296 * \ln(8) * F^{\wedge}4 * \sin x^4 * \pi^{\wedge}4 + 16/27 * \ln(8) * F^{\wedge}4 * \sin x^4 * L8r * \pi^{\wedge}2 + 16/9 * \ln(8) * F^{\wedge}4 * \sin x^4 * L7r * \pi^{\wedge}2 + 1/5184 * \ln(8)^{\wedge}2 * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * \pi^{\wedge}4 \\
& - 1/20736 * \ln(8)^{\wedge}2 * F^{\wedge}4 * \pi^{\wedge}4 + 1/864 * \ln(8)^{\wedge}2 * F^{\wedge}4 * \sin x^2 * \pi^{\wedge}4 - 5/2592 * \ln(8)^{\wedge}2 * F^{\wedge}4 * \sin x^4 * \pi^{\wedge}4 + 1/1296 * \ln(8)^{\wedge}2 * F^{\wedge}4 * \sin x^6 * \pi^{\wedge}4) \\
& + \text{mud}^{\wedge}2 * \text{mkp}2^2 * (+ 1/13824/(\text{mass}(4))^{\wedge}2 * F^{\wedge}4 * \pi^{\wedge}4 - 1/13824/(\text{mass}(5))^{\wedge}2 * \ln(4)^{\wedge}2 * F^{\wedge}4 * \pi^{\wedge}4 - 89/27648/(\text{mass}(6))^{\wedge}2 * F^{\wedge}4 * \pi^{\wedge}4 + 89/27648/(\text{mass}(7))^{\wedge}2 * \ln(6)^{\wedge}2 * F^{\wedge}4 * \pi^{\wedge}4) \\
& + \text{mud}^{\wedge}2 * \text{mpp}2 * (- 8/9 * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * L8r * \pi^{\wedge}2 - 8/3 * F^{\wedge}4 * \sqrt{3}^{\wedge}1 * \sin x * \cos x * L7r * \pi^{\wedge}2 - 13/6144 * F^{\wedge}4 * \pi^{\wedge}4 - 1/2048 * F^{\wedge}4 * \pi^{\wedge}2 \\
& + 1/3 * F^{\wedge}4 * L8r * \pi^{\wedge}2 + 8/9 * F^{\wedge}4 * L7r * \pi^{\wedge}2 - 1/9 * F^{\wedge}4 * L6r * \pi^{\wedge}2 - 1/54 * F^{\wedge}4 * L5r * \pi^{\wedge}2 + 1/18 * F^{\wedge}4 * L4r * \pi^{\wedge}2 - 128 * F^{\wedge}4 * L4r * L6r +
\end{aligned}$$

$$\begin{aligned}
& 64F^{-4}L4r^2 + 41/432F^{-4}L3r^*pi^{-2} + 7/18F^{-4}L2r^*pi^{-2} + 48F^{-4}CC21 + 48F^{-4}CC20 + 48F^{-4}CC19 + 16F^{-4}CC17 - 48F^{-4}CC16 - 16F^{-4}CC14 + 1/1728\ln(1)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*pi^{-4} - \\
& 1/6912\ln(1)F^{-4}pi^{-4} + 1/6912\ln(1)\ln(3)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*pi^{-4} - \\
& 1/13824\ln(1)\ln(3)F^{-4}pi^{-4} + 1/5184\ln(1)\ln(3)F^{-4}\sin x^2pi^{-4} - \\
& 1/5184\ln(1)\ln(3)F^{-4}\sin x^4pi^{-4} - 1/6912\ln(1)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*pi^{-4} + 1/13824\ln(1)\ln(8)F^{-4}pi^{-4} - 1/5184\ln(1)\ln(8)F^{-4}\sin x^2pi^{-4} + 1/5184\ln(1)\ln(8)F^{-4}\sin x^4pi^{-4} + 7/4608\ln(3)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*pi^{-4} + 7/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*L8r^*pi^{-2} + 1/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*L7r^*pi^{-2} + 2/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*L6r^*pi^{-2} - 1/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*L5r^*pi^{-2} - 5/6\ln(3)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*L4r^*pi^{-2} + 5/12\ln(3)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*L3r^*pi^{-2} + 1/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*L2r^*pi^{-2} + 4/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*L1r^*pi^{-2} - 25/165888\ln(3)F^{-4}pi^{-4} - 1/54\ln(3)F^{-4}L8r^*pi^{-2} + 4/9\ln(3)F^{-4}L7r^*pi^{-2} - 1/3\ln(3)F^{-4}L6r^*pi^{-2} + 1/12\ln(3)F^{-4}L5r^*pi^{-2} + 1/3\ln(3)F^{-4}L4r^*pi^{-2} - 1/8\ln(3)F^{-4}L3r^*pi^{-2} - 1/12\ln(3)F^{-4}L2r^*pi^{-2} - 1/3\ln(3)F^{-4}L1r^*pi^{-2} - 1/5184\ln(3)F^{-4}\sin x^2pi^{-4} - \ln(3)F^{-4}\sin x^2L8r^*pi^{-2} - 7/3\ln(3)F^{-4}\sin x^2L7r^*pi^{-2} - 2/3\ln(3)F^{-4}\sin x^2L6r^*pi^{-2} + 1/9\ln(3)F^{-4}\sin x^2L5r^*pi^{-2} + 11/18\ln(3)F^{-4}\sin x^2L4r^*pi^{-2} - 1/9\ln(3)F^{-4}\sin x^2L3r^*pi^{-2} - 1/9\ln(3)F^{-4}\sin x^2L2r^*pi^{-2} - 4/9\ln(3)F^{-4}\sin x^2L1r^*pi^{-2} + 1/2592\ln(3)F^{-4}\sin x^4pi^{-4} + 8/9\ln(3)F^{-4}\sin x^4L8r^*pi^{-2} + 8/3\ln(3)F^{-4}\sin x^4L7r^*pi^{-2} + 1/10368\ln(3)^2F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*pi^{-4} - 1/4608\ln(3)^2F^{-4}pi^{-4} + 1/2592\ln(3)^2F^{-4}\sin x^2pi^{-4} + 25/41472\ln(3)^2F^{-4}\sin x^4pi^{-4} - 1/1296\ln(3)^2F^{-4}\sin x^6pi^{-4} - 7/6912\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*pi^{-4} + 1/864\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x^*pi^{-4} + 7/41472\ln(3)\ln(4)F^{-4}pi^{-4} + 7/20736\ln(3)\ln(4)F^{-4}\sin x^2pi^{-4} - 1/1296\ln(3)\ln(4)F^{-4}\sin x^4pi^{-4} + 1/768\ln(3)\ln(6)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*pi^{-4} - 1/864\ln(3)\ln(6)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x^*pi^{-4} - 37/165888\ln(3)\ln(6)F^{-4}pi^{-4} + 7/20736\ln(3)\ln(6)F^{-4}\sin x^2pi^{-4} - 1/1296\ln(3)\ln(6)F^{-4}\sin x^4pi^{-4} - 1/5184\ln(3)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*pi^{-4} - 1/20736\ln(3)\ln(8)F^{-4}pi^{-4} + 17/20736\ln(3)\ln(8)F^{-4}\sin x^2pi^{-4} - 49/20736\ln(3)\ln(8)F^{-4}\sin x^4pi^{-4} + 1/648\ln(3)\ln(8)F^{-4}\sin x^6pi^{-4} + 7/6912\ln(4)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*pi^{-4} - 1/864\ln(4)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x^*pi^{-4} - 7/41472\ln(4)\ln(8)F^{-4}pi^{-4} - 7/20736\ln(4)\ln(8)F^{-4}\sin x^2pi^{-4} + 1/1296\ln(4)\ln(8)F^{-4}\sin x^4pi^{-4} + 1/864\ln(6)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*pi^{-4} - 1/3456\ln(6)F^{-4}pi^{-4} - \ln(6)F^{-4}L8r^*pi^{-2} - 2\ln(6)F^{-4}L6r^*pi^{-2} + 1/2\ln(6)F^{-4}L5r^*pi^{-2} + 2\ln(6)F^{-4}L4r^*pi^{-2} - 5/8\ln(6)F^{-4}L3r^*pi^{-2} - 1/2\ln(6)F^{-4}L2r^*pi^{-2} - 2\ln(6)F^{-4}L1r^*pi^{-2} - 1/768\ln(6)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*pi^{-4} + 1/864\ln(6)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x^*pi^{-4} - 89/165888\ln(6)\ln(8)F^{-4}pi^{-4} - 7/20736\ln(6)\ln(8)F^{-4}\sin x^2pi^{-4} + 1/1296\ln(6)\ln(8)F^{-4}\sin x^4pi^{-4} - 5/13824\ln(8)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*pi^{-4} - 7/9\ln(8)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*L8r^*pi^{-2} - 1/3\ln(8)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*L7r^*pi^{-2} - 2/3\ln(8)F^{-4}\sqrt{3}^{-1}\sin x^*\cos x^*L6r^*pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2 + 1/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} + 5/6*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L4r*\pi^{-2} - 5/12*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} \\
& - 1/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} - 4/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L1r*\pi^{-2} + 5/55296*\ln(8)*F^{-4}*\pi^{-4} - 17/54*\ln(8)*F^{-4} \\
& * L8r*\pi^{-2} + 2/9*\ln(8)*F^{-4}*L7r*\pi^{-2} - \ln(8)*F^{-4}*L6r*\pi^{-2} + 7/36*\ln(8)*F^{-4} \\
& * L5r*\pi^{-2} + 17/18*\ln(8)*F^{-4}*L4r*\pi^{-2} - 17/72*\ln(8)*F^{-4}*L3r*\pi^{-2} - \\
& 7/36*\ln(8)*F^{-4}*L2r*\pi^{-2} - 7/9*\ln(8)*F^{-4}*L1r*\pi^{-2} + 1/5184*\ln(8)*F^{-4} \\
& * \sin x^2*\pi^{-4} + \ln(8)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 7/3*\ln(8)*F^{-4}*\sin x^2*L7r*\pi^{-2} \\
& + 2/3*\ln(8)*F^{-4}*\sin x^2*L6r*\pi^{-2} - 1/9*\ln(8)*F^{-4}*\sin x^2*L5r*\pi^{-2} - \\
& 11/18*\ln(8)*F^{-4}*\sin x^2*L4r*\pi^{-2} + 1/9*\ln(8)*F^{-4}*\sin x^2*L3r*\pi^{-2} \\
& + 1/9*\ln(8)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 4/9*\ln(8)*F^{-4}*\sin x^2*L1r*\pi^{-2} \\
& - 1/2592*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 8/9*\ln(8)*F^{-4}*\sin x^4*L8r*\pi^{-2} \\
& - 8/3*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 1/10368*\ln(8)^2*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} + 5/41472*\ln(8)^2*F^{-4}*\pi^{-4} - 25/20736*\ln(8)^2*F^{-4} \\
& * \sin x^2*\pi^{-4} + 73/41472*\ln(8)^2*F^{-4}*\sin x^4*\pi^{-4} - 1/1296*\ln(8)^2*F^{-4} \\
& * \sin x^6*\pi^{-4}) \\
& + \text{mud}^2*\text{mpp}2*\text{mkp}2 * (+ 5/1152/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} - 7/9216/(\text{mass}(3))*\ln(3)^2*F^{-4}*\pi^{-4} - 1/768/(\text{mass}(3))*\ln(3)^2*F^{-4} \\
& * \sin x^2*\pi^{-4} - 361/110592/(\text{mass}(6))*\ln(6)^2*F^{-4}*\pi^{-4} - 395/110592/(\text{mass}(7))*\ln(6)^2*F^{-4} \\
& * \pi^{-4} - 5/1152/(\text{mass}(8))*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 19/9216/(\text{mass}(8))*\ln(8)^2*F^{-4} \\
& * \pi^{-4} + 1/768/(\text{mass}(8))*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4}) \\
& + \text{mud}^2*\text{mpp}2^2 * (+ 1/27648/(\text{mass}(1))*\ln(1)^2*F^{-4}*\pi^{-4} - 1/27648/(\text{mass}(2))*\ln(1)^2*F^{-4} \\
& * \pi^{-4} + 5/4608/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 61/110592/(\text{mass}(3))*\ln(3)^2*F^{-4}*\pi^{-4} + 7/82944/(\text{mass}(3))*\ln(3)^2*F^{-4} \\
& * \sin x^2*\pi^{-4} + 1/27648/(\text{mass}(6))*\ln(6)^2*F^{-4}*\pi^{-4} - 5/13824/(\text{mass}(7))*\ln(6)^2*F^{-4} \\
& * \pi^{-4} - 5/4608/(\text{mass}(8))*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 155/331776/(\text{mass}(8))*\ln(8)^2*F^{-4} \\
& * \pi^{-4} - 7/82944/(\text{mass}(8))*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4}) \\
& + \text{mud}^3 * (+ 1/41472*\ln(3)*F^{-4}*\pi^{-4} + 1/54*\ln(3)*F^{-4}*L8r*\pi^{-2} + \\
& 1/18*\ln(3)*F^{-4}*L7r*\pi^{-2} - 1/7776*\ln(3)*F^{-4}*\sin x^2*\pi^{-4} - 8/81*\ln(3)*F^{-4} \\
& * \sin x^2*L8r*\pi^{-2} - 8/27*\ln(3)*F^{-4}*\sin x^2*L7r*\pi^{-2} + 1/7776*\ln(3)*F^{-4} \\
& * \sin x^4*\pi^{-4} + 8/81*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} + 8/27*\ln(3)*F^{-4} \\
& * \sin x^4*L7r*\pi^{-2} + 1/41472*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 1/15552*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} + 1/5184*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} \\
& - 1/7776*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} - 1/20736*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} + 1/10368*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/82944*\ln(3)*\ln(4)*F^{-4}*\pi^{-4} + 1/10368*\ln(3)*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} - \\
& 1/10368*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + 1/20736*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} - 1/10368*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/41472*\ln(3)*\ln(6)*F^{-4}*\pi^{-4} + 1/10368*\ln(3)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} - \\
& 1/10368*\ln(3)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} - 1/20736*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} - 1/41472*\ln(3)*\ln(8)*F^{-4}*\pi^{-4} + 1/3888*\ln(3)*\ln(8)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 1/1944*\ln(3)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 1/3888*\ln(3)*\ln(8)*F^{-4} \\
& * \sin x^6*\pi^{-4} + 1/20736*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 1/10368*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/82944*\ln(4)*\ln(8)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4\pi^{-4} - 1/10368\ln(4)\ln(8)F^{-4}\sin^2\pi^{-4} + 1/10368\ln(4)\ln(8)F^{-4}\sin^4\pi^{-4} - 1/20736\ln(6)\ln(8)F^{-4}\sqrt{3}^{-1}\sin^2\pi^{-4} + 1/10368\ln(6)\ln(8)F^{-4}\sqrt{3}^{-1}\sin^4\pi^{-4} + 1/41472\ln(6)\ln(8)F^{-4}\sqrt{3}^{-1}\sin^2\pi^{-4} + 1/10368\ln(6)\ln(8)F^{-4}\sqrt{3}^{-1}\sin^4\pi^{-4} - 1/10368\ln(6)\ln(8)F^{-4}\sin^2\pi^{-4} + 1/10368\ln(6)\ln(8)F^{-4}\sin^4\pi^{-4} - 1/41472\ln(8)F^{-4}\pi^{-4} - 1/54\ln(8)F^{-4}L8r\pi^{-2} - 1/18\ln(8)F^{-4}L7r\pi^{-2} + 1/7776\ln(8)F^{-4}\sin^2\pi^{-4} + 8/81\ln(8)F^{-4}\sin^2L8r\pi^{-2} + 8/27\ln(8)F^{-4}\sin^2L7r\pi^{-2} - 1/7776\ln(8)F^{-4}\sin^4\pi^{-4} - 8/81\ln(8)F^{-4}\sin^4L8r\pi^{-2} - 8/27\ln(8)F^{-4}\sin^4L7r\pi^{-2} + 1/41472\ln(8)^2F^{-4}\sqrt{3}^{-1}\sin^2\pi^{-4} + 1/41472\ln(8)^2F^{-4}\pi^{-4} - 1/5184\ln(8)^2F^{-4}\sin^2\pi^{-4} + 5/15552\ln(8)^2F^{-4}\sin^4\pi^{-4} - 1/7776\ln(8)^2F^{-4}\sin^6\pi^{-4}) \\
& + \text{mud}^3\text{mkp}2 * (+ 17/9216/(\text{mass}(6))^{\ln(6)^2}F^{-4}\pi^{-4} - 17/9216/(\text{mass}(7))^{\ln(6)^2}F^{-4}\pi^{-4}) \\
& + \text{mud}^3\text{mpp}2 * (- 1/576/(\text{mass}(3))^{\ln(3)^2}F^{-4}\sqrt{3}^{-1}\sin^2\pi^{-4} + 7/18432/(\text{mass}(3))^{\ln(3)^2}F^{-4}\pi^{-4} + 1/4608/(\text{mass}(3))^{\ln(3)^2}F^{-4}\sin^2\pi^{-4} + 115/110592/(\text{mass}(6))^{\ln(6)^2}F^{-4}\pi^{-4} + 101/110592/(\text{mass}(7))^{\ln(6)^2}F^{-4}\pi^{-4} + 1/576/(\text{mass}(8))^{\ln(8)^2}F^{-4}\sqrt{3}^{-1}\sin^2\pi^{-4} + 11/18432/(\text{mass}(8))^{\ln(8)^2}F^{-4}\pi^{-4} - 1/4608/(\text{mass}(8))^{\ln(8)^2}F^{-4}\sin^2\pi^{-4}) \\
& + \text{mud}^4 * (- 11/27648/(\text{mass}(6))^{\ln(6)^2}F^{-4}\pi^{-4} + 11/27648/(\text{mass}(7))^{\ln(6)^2}F^{-4}\pi^{-4});
\end{aligned}$$

Neutral pion: Mass633 =

$$\begin{aligned}
& + \text{mkp}2^2 * (- 32/9\text{HH}1\text{b}(1,2,3,\text{plext.plext})F^{-4}\sin^2 + 32/9\text{HH}1\text{b}(1,2,3,\text{plext.plext})F^{-4}\sin^4 + 32/9\text{HH}1\text{b}(1,2,8,\text{plext.plext})F^{-4}\sin^2 - 32/9\text{HH}1\text{b}(1,2,8,\text{plext.plext})F^{-4}\sin^4 + 8/3\text{HH}1\text{b}(1,5,6,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^2\cos - 32/9\text{HH}1\text{b}(2,1,3,\text{plext.plext})F^{-4}\sin^2 + 32/9\text{HH}1\text{b}(2,1,3,\text{plext.plext})F^{-4}\sin^4 + 32/9\text{HH}1\text{b}(2,1,8,\text{plext.plext})F^{-4}\sin^2 - 32/9\text{HH}1\text{b}(2,1,8,\text{plext.plext})F^{-4}\sin^4 + 8/3\text{HH}1\text{b}(2,4,7,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^2\cos - 52/9\text{HH}1\text{b}(3,4,5,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^2\cos - 16/9\text{HH}1\text{b}(3,4,5,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^3\cos - 32/9\text{HH}1\text{b}(3,4,5,\text{plext.plext})F^{-4}\sin^2 - 16/9\text{HH}1\text{b}(3,4,5,\text{plext.plext})F^{-4}\sin^4 + 52/9\text{HH}1\text{b}(3,6,7,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^2\cos + 16/9\text{HH}1\text{b}(3,6,7,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^3\cos - 32/9\text{HH}1\text{b}(3,6,7,\text{plext.plext})F^{-4}\sin^2 - 16/9\text{HH}1\text{b}(3,6,7,\text{plext.plext})F^{-4}\sin^4 + 16/3\text{HH}1\text{b}(4,2,7,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^2\cos - 4/9\text{HH}1\text{b}(4,5,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^2\cos - 16/9\text{HH}1\text{b}(4,5,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^3\cos + 16/9\text{HH}1\text{b}(4,5,8,\text{plext.plext})F^{-4}\sin^2 - 16/9\text{HH}1\text{b}(4,5,8,\text{plext.plext})F^{-4}\sin^4 + 16/3\text{HH}1\text{b}(5,1,6,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^2\cos - 4/9\text{HH}1\text{b}(5,4,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^2\cos - 16/9\text{HH}1\text{b}(5,4,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^3\cos + 16/9\text{HH}1\text{b}(5,4,8,\text{plext.plext})F^{-4}\sin^2 - 16/9\text{HH}1\text{b}(5,4,8,\text{plext.plext})F^{-4}\sin^4 + 4/9\text{HH}1\text{b}(6,7,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^2\cos + 16/9\text{HH}1\text{b}(6,7,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^3\cos + 16/9\text{HH}1\text{b}(6,7,8,\text{plext.plext})F^{-4}\sin^2 - 16/9\text{HH}1\text{b}(6,7,8,\text{plext.plext})F^{-4}\sin^4 + 4/9\text{HH}1\text{b}(7,6,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^2\cos +
\end{aligned}$$

$$\begin{aligned}
& 16/9*HH1b(7,6,8,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x^{\wedge}3*\cos x} + 16/9*HH1b(7,6,8,plext.plext)*F^{-4*\sin x^{\wedge}2} - 16/9*HH1b(7,6,8,plext.plext)*F^{-4*\sin x^{\wedge}4} + 16/9*Hb(1,2,3,plext.plext)*F^{-4*\sin x^{\wedge}2} - 16/9*Hb(1,2,3,plext.plext)*F^{-4*\sin x^{\wedge}4} - 16/9*Hb(1,2,8,plext.plext)*F^{-4*\sin x^{\wedge}2} + 16/9*Hb(1,2,8,plext.plext)*F^{-4*\sin x^{\wedge}4} - 8/3*Hb(1,5,6,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} - 8/3*Hb(2,4,7,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} - 4/9*Hb(3,1,2,plext.plext)*F^{-4*\sin x^{\wedge}2} + 4/9*Hb(3,1,2,plext.plext)*F^{-4*\sin x^{\wedge}4} - 128/243*Hb(3,3,3,plext.plext)*F^{-4*\sin x^{\wedge}2} + 256/81*Hb(3,3,3,plext.plext)*F^{-4*\sin x^{\wedge}4} - 1024/243*Hb(3,3,3,plext.plext)*F^{-4*\sin x^{\wedge}6} + 512/243*Hb(3,3,3,plext.plext)*F^{-4*\sin x^{\wedge}8} + 64/81*Hb(3,3,8,plext.plext)*F^{-4*\sin x^{\wedge}2} - 64/9*Hb(3,3,8,plext.plext)*F^{-4*\sin x^{\wedge}4} + 1024/81*Hb(3,3,8,plext.plext)*F^{-4*\sin x^{\wedge}6} - 512/81*Hb(3,3,8,plext.plext)*F^{-4*\sin x^{\wedge}8} + 3*Hb(3,4,5,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} - 2/9*Hb(3,4,5,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x^{\wedge}3*\cos x} + 73/27*Hb(3,4,5,plext.plext)*F^{-4*\sin x^{\wedge}2} + 2/27*Hb(3,4,5,plext.plext)*F^{-4*\sin x^{\wedge}4} - 3*Hb(3,6,7,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} + 2/9*Hb(3,6,7,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x^{\wedge}3*\cos x} + 73/27*Hb(3,6,7,plext.plext)*F^{-4*\sin x^{\wedge}2} + 2/27*Hb(3,6,7,plext.plext)*F^{-4*\sin x^{\wedge}4} + 512/81*Hb(3,8,8,plext.plext)*F^{-4*\sin x^{\wedge}4} - 1024/81*Hb(3,8,8,plext.plext)*F^{-4*\sin x^{\wedge}6} + 512/81*Hb(3,8,8,plext.plext)*F^{-4*\sin x^{\wedge}8} - 1/2*Hb(4,2,7,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} + 8/3*Hb(4,5,8,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x^{\wedge}3*\cos x} - 40/27*Hb(4,5,8,plext.plext)*F^{-4*\sin x^{\wedge}2} + 40/27*Hb(4,5,8,plext.plext)*F^{-4*\sin x^{\wedge}4} - 1/2*Hb(5,1,6,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} + 1/2*Hb(6,1,5,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} - 8/3*Hb(6,7,8,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x^{\wedge}3*\cos x} - 40/27*Hb(6,7,8,plext.plext)*F^{-4*\sin x^{\wedge}2} + 40/27*Hb(6,7,8,plext.plext)*F^{-4*\sin x^{\wedge}4} + 1/2*Hb(7,2,4,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} + 4/9*Hb(8,1,2,plext.plext)*F^{-4*\sin x^{\wedge}2} - 4/9*Hb(8,1,2,plext.plext)*F^{-4*\sin x^{\wedge}4} + 1/3*Hb(8,4,5,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} - 2/3*Hb(8,4,5,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x^{\wedge}3*\cos x} - 2/9*Hb(8,4,5,plext.plext)*F^{-4*\sin x^{\wedge}2} + 2/9*Hb(8,4,5,plext.plext)*F^{-4*\sin x^{\wedge}4} - 1/3*Hb(8,6,7,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} + 2/3*Hb(8,6,7,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x^{\wedge}3*\cos x} - 2/9*Hb(8,6,7,plext.plext)*F^{-4*\sin x^{\wedge}2} + 2/9*Hb(8,6,7,plext.plext)*F^{-4*\sin x^{\wedge}4} + 64/243*Hb(8,8,8,plext.plext)*F^{-4*\sin x^{\wedge}2} - 64/27*Hb(8,8,8,plext.plext)*F^{-4*\sin x^{\wedge}4} + 1024/243*Hb(8,8,8,plext.plext)*F^{-4*\sin x^{\wedge}6} - 512/243*Hb(8,8,8,plext.plext)*F^{-4*\sin x^{\wedge}8} + 2*H21b(1,5,6,plext.plext)*F^{-4*\sin x^{\wedge}2} + 2*H21b(2,4,7,plext.plext)*F^{-4*\sin x^{\wedge}2} - 4/3*H21b(3,1,2,plext.plext)*F^{-4*\sin x^{\wedge}2} + 4/3*H21b(3,1,2,plext.plext)*F^{-4*\sin x^{\wedge}4} + 5*H21b(3,4,5,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} + 2*H21b(3,4,5,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x^{\wedge}3*\cos x} + 11/3*H21b(3,4,5,plext.plext)*F^{-4*\sin x^{\wedge}2} - 2/3*H21b(3,4,5,plext.plext)*F^{-4*\sin x^{\wedge}4} - 5*H21b(3,6,7,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} - 2*H21b(3,6,7,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x^{\wedge}3*\cos x} + 11/3*H21b(3,6,7,plext.plext)*F^{-4*\sin x^{\wedge}2} - 2/3*H21b(3,6,7,plext.plext)*F^{-4*\sin x^{\wedge}4} - 2*H21b(4,2,7,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} - 2*H21b(5,1,6,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} + 2*H21b(6,1,5,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} + 2*H21b(7,2,4,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} + 4/3*H21b(8,1,2,plext.plext)*F^{-4*\sin x^{\wedge}2} - 4/3*H21b(8,1,2,plext.plext)*F^{-4*\sin x^{\wedge}4} - H21b(8,4,5,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} - 2*H21b(8,4,5,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x^{\wedge}3*\cos x} + 1/3*H21b(8,4,5,plext.plext)*F^{-4*\sin x^{\wedge}2} + 2/3*H21b(8,4,5,plext.plext)*F^{-4*\sin x^{\wedge}4} + H21b(8,6,7,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x*\cos x} + 2*H21b(8,6,7,plext.plext)*F^{-4*\sqrt{3}^{\wedge}-1*\sin x^{\wedge}3*\cos x} + 1/3*H21b(8,6,7,plext.plext)*F^{-4*\sin x^{\wedge}2} + 2/3*H21b(8,6,7,plext.plext)*F^{-4*\sin x^{\wedge}4}
\end{aligned}$$

$$\begin{aligned}
& + \text{mkp}2^3 * (- 7567/248832 * F^{-4} * \sin x^2 * \pi^{-4} - 1091/186624 * F^{-4} * \sin x^2 * \pi^{-2} - 28/27 * F^{-4} * \sin x^2 * L8r * \pi^{-2} - 64/27 * F^{-4} * \sin x^2 * L7r * \pi^{-2} \\
& + 8/27 * F^{-4} * \sin x^2 * L6r * \pi^{-2} + 10/81 * F^{-4} * \sin x^2 * L5r * \pi^{-2} - 4096/9 * F^{-4} * \sin x^2 * L5r * L8r - 4096/9 * F^{-4} * \sin x^2 * L5r * L7r - 4096/9 * F^{-4} * \sin x^2 * L5r * L6r \\
& + 4096/27 * F^{-4} * \sin x^2 * L5r^2 - 4/27 * F^{-4} * \sin x^2 * L4r * \pi^{-2} - 2048/3 * F^{-4} * \sin x^2 * L4r * L8r - 2048/3 * F^{-4} * \sin x^2 * L4r * L7r - 2048/3 * F^{-4} * \sin x^2 * L4r * L6r \\
& + 4096/9 * F^{-4} * \sin x^2 * L4r * L5r + 1024/3 * F^{-4} * \sin x^2 * L4r^2 + 19/54 * F^{-4} * \sin x^2 * L3r * \pi^{-2} + 34/27 * F^{-4} * \sin x^2 * L2r * \pi^{-2} + 16/27 * F^{-4} * \sin x^2 * L1r * \pi^{-2} \\
& - 2 + 512/3 * F^{-4} * \sin x^2 * CC33 + 512/3 * F^{-4} * \sin x^2 * CC32 + 512/3 * F^{-4} * \sin x^2 * CC31 + 256 * F^{-4} * \sin x^2 * CC21 + 256 * F^{-4} * \sin x^2 * CC20 + 256 * F^{-4} * \sin x^2 * CC19 \\
& - 512/9 * F^{-4} * \sin x^2 * CC18 - 512/9 * F^{-4} * \sin x^2 * CC17 - 256/3 * F^{-4} * \sin x^2 * CC16 - 512/9 * F^{-4} * \sin x^2 * CC15 - 512/9 * F^{-4} * \sin x^2 * CC14 \\
& - 1024/9 * F^{-4} * \sin x^2 * CC13 - 2048/27 * F^{-4} * \sin x^2 * CC12 + 41/3888 * \ln(3) * F^{-4} * \sin x^2 * \pi^{-4} - 128/81 * \ln(3) * F^{-4} * \sin x^2 * L8r * \pi^{-2} + 64/9 * \ln(3) * F^{-4} * \sin x^2 * L7r * \pi^{-2} \\
& - 64/9 * \ln(3) * F^{-4} * \sin x^2 * L6r * \pi^{-2} + 160/81 * \ln(3) * F^{-4} * \sin x^2 * L5r * \pi^{-2} + 64/27 * \ln(3) * F^{-4} * \sin x^2 * L4r * \pi^{-2} - 16/9 * \ln(3) * F^{-4} * \sin x^2 * L3r * \pi^{-2} \\
& - 32/9 * \ln(3) * F^{-4} * \sin x^2 * L2r * \pi^{-2} - 32/9 * \ln(3) * F^{-4} * \sin x^2 * L1r * \pi^{-2} - 1/243 * \ln(3) * F^{-4} * \sin x^4 * \pi^{-4} - 448/27 * \ln(3) * F^{-4} * \sin x^4 * L8r * \pi^{-2} \\
& - 1024/27 * \ln(3) * F^{-4} * \sin x^4 * L7r * \pi^{-2} - 128/27 * \ln(3) * F^{-4} * \sin x^4 * L6r * \pi^{-2} + 160/81 * \ln(3) * F^{-4} * \sin x^4 * L5r * \pi^{-2} + 32/9 * \ln(3) * F^{-4} * \sin x^4 * L4r * \pi^{-2} \\
& + 512/81 * \ln(3) * F^{-4} * \sin x^6 * L8r * \pi^{-2} + 512/27 * \ln(3) * F^{-4} * \sin x^6 * L7r * \pi^{-2} + 1/3888 * \ln(3)^2 * F^{-4} * \sin x^2 * \pi^{-4} + 5/3888 * \ln(3)^2 * F^{-4} * \sin x^4 * \pi^{-4} \\
& + 25/1944 * \ln(3)^2 * F^{-4} * \sin x^6 * \pi^{-4} - 2/243 * \ln(3)^2 * F^{-4} * \sin x^8 * \pi^{-4} - 37/3456 * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - 23/1296 * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} + 1/162 * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^5 * \cos x * \pi^{-4} \\
& - 1/288 * \ln(3) * \ln(4) * F^{-4} * \sin x^2 * \pi^{-4} - 1/1296 * \ln(3) * \ln(4) * F^{-4} * \sin x^4 * \pi^{-4} - 1/162 * \ln(3) * \ln(4) * F^{-4} * \sin x^6 * \pi^{-4} \\
& + 37/3456 * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 23/1296 * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} - 1/1296 * \ln(3) * \ln(6) * F^{-4} * \sin x^5 * \cos x * \pi^{-4} \\
& - 1/288 * \ln(3) * \ln(6) * F^{-4} * \sin x^2 * \pi^{-4} - 1/1296 * \ln(3) * \ln(6) * F^{-4} * \sin x^4 * \pi^{-4} - 1/162 * \ln(3) * \ln(6) * F^{-4} * \sin x^6 * \pi^{-4} + 1/1944 * \ln(3) * \ln(8) * F^{-4} * \sin x^2 * \pi^{-4} \\
& + 11/648 * \ln(3) * \ln(8) * F^{-4} * \sin x^4 * \pi^{-4} - 11/324 * \ln(3) * \ln(8) * F^{-4} * \sin x^6 * \pi^{-4} + 4/243 * \ln(3) * \ln(8) * F^{-4} * \sin x^8 * \pi^{-4} - 421/20736 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& + 152/27 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L8r * \pi^{-2} - 16/9 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L7r * \pi^{-2} + 8 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L6r * \pi^{-2} - 28/9 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L5r * \pi^{-2} \\
& - 14/3 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L4r * \pi^{-2} - 17/6 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L3r * \pi^{-2} - 4/3 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L2r * \pi^{-2} - 16/3 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L1r * \pi^{-2} + 1/162 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} + 128/27 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * L8r * \pi^{-2} \\
& + 128/9 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * L7r * \pi^{-2} - 13/1728 * \ln(4) * F^{-4} * \sin x^2 * \pi^{-4} - 2/3 * \ln(4) * F^{-4} * \sin x^2 * L8r * \pi^{-2} - 4/3 * \ln(4) * F^{-4} * \sin x^2 * L7r * \pi^{-2} \\
& + 1/9 * \ln(4) * F^{-4} * \sin x^2 * L5r * \pi^{-2} + 2/3 * \ln(4) * F^{-4} * \sin x^2 * L4r * \pi^{-2} - 7/6 * \ln(4) * F^{-4} * \sin x^2 * L3r * \pi^{-2} - 2/3 * \ln(4) * F^{-4} * \sin x^2 * L2r * \pi^{-2} - 8/3 * \ln(4) * F^{-4} * \sin x^2 * L1r * \pi^{-2} + 97/6912 * \ln(4)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - 1/216 * \ln(4)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} +
\end{aligned}$$

$$\begin{aligned}
& 1/2304*\ln(4)^2F^{-4}\pi^{-4} + 11/1728*\ln(4)^2F^{-4}\sin x^2\pi^{-4} - 1/216*\ln(4)^2F^{-4}\sin x^4\pi^{-4} - 1/1152*\ln(4)*\ln(6)*F^{-4}\pi^{-4} - 61/6912*\ln(4)*\ln(6)*F^{-4}\sin x^2\pi^{-4} + 1/108*\ln(4)*\ln(6)*F^{-4}\sin x^4\pi^{-4} - 1/10368*\ln(4)*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin x*\cos x*\pi^{-4} + 5/432*\ln(4)*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin x^3*\cos x*\pi^{-4} - 1/162*\ln(4)*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin x^5*\cos x*\pi^{-4} - 1/144*\ln(4)*\ln(8)*F^{-4}\sin x^2\pi^{-4} + 1/1296*\ln(4)*\ln(8)*F^{-4}\sin x^4\pi^{-4} + 1/162*\ln(4)*\ln(8)*F^{-4}\sin x^6\pi^{-4} + 421/20736*\ln(6)*F^{-4}\sqrt{3}^{-1}\sin x*\cos x*\pi^{-4} - 152/27*\ln(6)*F^{-4}\sqrt{3}^{-1}\sin x*\cos x*L8r*\pi^{-2} + 16/9*\ln(6)*F^{-4}\sqrt{3}^{-1}\sin x*\cos x*L7r*\pi^{-2} - 8*\ln(6)*F^{-4}\sqrt{3}^{-1}\sin x*\cos x*L6r*\pi^{-2} + 28/9*\ln(6)*F^{-4}\sqrt{3}^{-1}\sin x*\cos x*L5r*\pi^{-2} + 14/3*\ln(6)*F^{-4}\sqrt{3}^{-1}\sin x*\cos x*L4r*\pi^{-2} + 17/6*\ln(6)*F^{-4}\sqrt{3}^{-1}\sin x*\cos x*L3r*\pi^{-2} + 4/3*\ln(6)*F^{-4}\sqrt{3}^{-1}\sin x*\cos x*L2r*\pi^{-2} + 16/3*\ln(6)*F^{-4}\sqrt{3}^{-1}\sin x*\cos x*L1r*\pi^{-2} - 1/162*\ln(6)*F^{-4}\sqrt{3}^{-1}\sin x^3*\cos x*\pi^{-4} - 128/27*\ln(6)*F^{-4}\sqrt{3}^{-1}\sin x^3*\cos x*L8r*\pi^{-2} - 128/9*\ln(6)*F^{-4}\sqrt{3}^{-1}\sin x^3*\cos x*L7r*\pi^{-2} - 13/1728*\ln(6)*F^{-4}\sin x^2*\pi^{-4} - 2/3*\ln(6)*F^{-4}\sin x^2*L8r*\pi^{-2} - 4/3*\ln(6)*F^{-4}\sin x^2*L7r*\pi^{-2} + 1/9*\ln(6)*F^{-4}\sin x^2*L5r*\pi^{-2} + 2/3*\ln(6)*F^{-4}\sin x^2*L4r*\pi^{-2} - 7/6*\ln(6)*F^{-4}\sin x^2*L3r*\pi^{-2} - 2/3*\ln(6)*F^{-4}\sin x^2*L2r*\pi^{-2} - 8/3*\ln(6)*F^{-4}\sin x^2*L1r*\pi^{-2} - 97/6912*\ln(6)^2F^{-4}\sqrt{3}^{-1}\sin x*\cos x*\pi^{-4} + 1/216*\ln(6)^2F^{-4}\sqrt{3}^{-1}\sin x^3*\cos x*\pi^{-4} + 1/2304*\ln(6)^2F^{-4}\pi^{-4} + 11/1728*\ln(6)^2F^{-4}\sin x^2*\pi^{-4} - 1/216*\ln(6)^2F^{-4}\sin x^4*\pi^{-4} + 1/10368*\ln(6)*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin x*\cos x*\pi^{-4} - 5/432*\ln(6)*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin x^3*\cos x*\pi^{-4} + 1/162*\ln(6)*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin x^5*\cos x*\pi^{-4} - 1/144*\ln(6)*\ln(8)*F^{-4}\sin x^2*\pi^{-4} + 1/1296*\ln(6)*\ln(8)*F^{-4}\sin x^4*\pi^{-4} + 1/162*\ln(6)*\ln(8)*F^{-4}\sin x^6*\pi^{-4} - 1/243*\ln(8)*F^{-4}\sin x^2*\pi^{-4} - 832/81*\ln(8)*F^{-4}\sin x^2*L8r*\pi^{-2} - 512/27*\ln(8)*F^{-4}\sin x^2*L7r*\pi^{-2} - 128/27*\ln(8)*F^{-4}\sin x^2*L6r*\pi^{-2} + 160/81*\ln(8)*F^{-4}\sin x^2*L5r*\pi^{-2} + 32/9*\ln(8)*F^{-4}\sin x^2*L4r*\pi^{-2} + 1/243*\ln(8)*F^{-4}\sin x^4*\pi^{-4} + 448/27*\ln(8)*F^{-4}\sin x^4*L8r*\pi^{-2} + 1024/27*\ln(8)*F^{-4}\sin x^4*L7r*\pi^{-2} + 128/27*\ln(8)*F^{-4}\sin x^4*L6r*\pi^{-2} - 160/81*\ln(8)*F^{-4}\sin x^4*L5r*\pi^{-2} - 32/9*\ln(8)*F^{-4}\sin x^4*L4r*\pi^{-2} - 512/81*\ln(8)*F^{-4}\sin x^6*L8r*\pi^{-2} - 512/27*\ln(8)*F^{-4}\sin x^6*L7r*\pi^{-2} + 7/1296*\ln(8)^2F^{-4}\sin x^2*\pi^{-4} - 71/3888*\ln(8)^2F^{-4}\sin x^4*\pi^{-4} + 41/1944*\ln(8)^2F^{-4}\sin x^6*\pi^{-4} - 2/243*\ln(8)^2F^{-4}\sin x^8*\pi^{-4}) \\
& + \text{mkp}2^4 * (- 83/3888/(\text{mass}(3))*\ln(3)^2F^{-4}\sin x^2*\pi^{-4} - 5/1458/(\text{mass}(3))*\ln(3)^2F^{-4}\sin x^4*\pi^{-4} + 262144/81/(\text{mass}(3) - \text{mass}(8))*F^{-4}\sin x^2*L8r^2 + 524288/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}\sin x^2*L7r*L8r + 262144/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}\sin x^2*L7r^2 - 262144/81/(\text{mass}(3) - \text{mass}(8))*F^{-4}\sin x^4*L8r^2 - 524288/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}\sin x^4*L7r*L8r - 262144/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}\sin x^4*L7r^2 - 2048/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}\sin x^4*L8r*\pi^{-2} - 2048/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}\sin x^4*L7r*\pi^{-2} + 2048/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}\sin x^6*L8r*\pi^{-2} + 2048/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}\sin x^6*L7r*\pi^{-2} - 1/1458/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2F^{-4}\sin x^2*\pi^{-4} + 1/1458/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2F^{-4}\sin x^4*\pi^{-4} + 4/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2F^{-4}\sin x^6*\pi^{-4} - 4/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2F^{-4}\sin x^8*\pi^{-4} - 7/1944/(\text{mass}(3)
\end{aligned}$$

$$\begin{aligned}
& 2/243/(\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin x^6 * \pi^{-4} - 2048/243/(\text{mass}(3) \\
& - \text{mass}(8)) * \ln(8) * F^{-4} * \sin x^2 * L8r * \pi^{-2} - 2048/81/(\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin x^2 * L7r * \pi^{-2} + 4096/243/(\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin x^4 * L8r * \pi^{-2} \\
& - 2048/243/(\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin x^4 * L7r * \pi^{-2} - 2048/81/(\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin x^6 * L8r * \pi^{-2} - 2048/81/(\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin x^6 * L7r * \pi^{-2} \\
& + 7/1458/(\text{mass}(3) - \text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin x^2 * \pi^{-4} - 23/1458/(\text{mass}(3) - \text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin x^4 * \pi^{-4} + 4/243/(\text{mass}(3) - \text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin x^6 * \pi^{-4} \\
& - 4/729/(\text{mass}(3) - \text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin x^8 * \pi^{-4} - 19/1152/(\text{mass}(4)) * \ln(4)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& - 5/9216/(\text{mass}(4)) * \ln(4)^2 * F^{-4} * \pi^{-4} - 25/4608/(\text{mass}(4)) * \ln(4)^2 * F^{-4} * \sin x^2 * \pi^{-4} - 1/288/(\text{mass}(5)) * \ln(4)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& + 5/9216/(\text{mass}(5)) * \ln(4)^2 * F^{-4} * \pi^{-4} - 13/4608/(\text{mass}(5)) * \ln(4)^2 * F^{-4} * \sin x^2 * \pi^{-4} + 19/1152/(\text{mass}(6)) * \ln(6)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& - 5/9216/(\text{mass}(6)) * \ln(6)^2 * F^{-4} * \pi^{-4} - 25/4608/(\text{mass}(6)) * \ln(6)^2 * F^{-4} * \sin x^2 * \pi^{-4} + 1/288/(\text{mass}(7)) * \ln(6)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& + 5/9216/(\text{mass}(7)) * \ln(6)^2 * F^{-4} * \pi^{-4} - 13/4608/(\text{mass}(7)) * \ln(6)^2 * F^{-4} * \sin x^2 * \pi^{-4} - 5/1458/(\text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin x^2 * \pi^{-4} + 5/1458/(\text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin x^4 * \pi^{-4}) \\
& + \text{mpp2} * \text{mkp2} * (- 4/3 * \text{HH1b}(1,5,6, \text{plext.plext}) * F^{-4} * \sin x^2 - 4/3 * \text{HH1b}(2,4,7, \text{plext.plext}) * F^{-4} * \sin x^2 + 44/9 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - \\
& 16/9 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x + 14/9 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} * \sin x^2 + 16/9 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} * \sin x^4 - 44/9 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x + 16/9 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x \\
& + 14/9 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} * \sin x^2 + 16/9 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} * \sin x^4 + 20/9 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - \\
& 16/9 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x - 10/9 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} * \sin x^2 + 16/9 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} * \sin x^4 + 20/9 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 16/9 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x \\
& - 10/9 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} * \sin x^2 + 16/9 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} * \sin x^4 - 20/9 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x + \\
& 16/9 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x - 10/9 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} * \sin x^2 + 16/9 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} * \sin x^4 - 20/9 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x + 16/9 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x \\
& - 10/9 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} * \sin x^2 + 16/9 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} * \sin x^4 + 16/9 * \text{Hb}(1,2,3, \text{plext.plext}) * F^{-4} * \sin x^2 - 16/9 * \text{Hb}(1,2,3, \text{plext.plext}) * F^{-4} * \sin x^4 - 16/9 * \text{Hb}(1,2,8, \text{plext.plext}) * F^{-4} * \sin x^2 + 16/9 * \text{Hb}(1,2,8, \text{plext.plext}) * F^{-4} * \sin x^4 + 1/2 * \text{Hb}(1,5,6, \text{plext.plext}) * F^{-4} * \sin x^2 + 1/2 * \text{Hb}(2,4,7, \text{plext.plext}) * F^{-4} * \sin x^2 - 4/9 * \text{Hb}(3,1,2, \text{plext.plext}) * F^{-4} * \sin x^2 + 4/9 * \text{Hb}(3,1,2, \text{plext.plext}) * F^{-4} * \sin x^4 + 112/243 * \text{Hb}(3,3,3, \text{plext.plext}) * F^{-4} * \sin x^2 - 416/81 * \text{Hb}(3,3,3, \text{plext.plext}) * F^{-4} * \sin x^4 + 2048/243 * \text{Hb}(3,3,3, \text{plext.plext}) * F^{-4} * \sin x^6 - 1024/243 * \text{Hb}(3,3,3, \text{plext.plext}) * F^{-4} * \sin x^8 - 128/81 * \text{Hb}(3,3,8, \text{plext.plext}) * F^{-4} * \sin x^2 + 128/9 * \text{Hb}(3,3,8, \text{plext.plext}) * F^{-4} * \sin x^4 - 2048/81 * \text{Hb}(3,3,8, \text{plext.plext}) * F^{-4} * \sin x^6 + 1024/81 * \text{Hb}(3,3,8, \text{plext.plext}) * F^{-4} * \sin x^8 - 32/9 * \text{Hb}(3,4,5, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x + 10/3 * \text{Hb}(3,4,5, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x - 103/54 * \text{Hb}(3,4,5, \text{plext.plext}) * F^{-4} * \sin x^2 + 2/27 * \text{Hb}(3,4,5, \text{plext.plext}) * F^{-4} * \sin x^4 + 32/9 * \text{Hb}(3,6,7, \text{plext.plext}) * F^{-4} * \sin x^2 + 32/9 * \text{Hb}(3,6,7, \text{plext.plext}) * F^{-4} * \sin x^4)
\end{aligned}$$

$$\begin{aligned}
& 4^*\sqrt{3}^{-1}*\sin x*\cos x - 10/3^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x \\
& - 103/54^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}*\sin x^2 + 2/27^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}*\sin x^4 + 32/27^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}*\sin x^2 - 1120/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}*\sin x^4 + 2048/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}*\sin x^6 - 1024/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}*\sin x^8 - 1/2^*\text{Hb}(4,2,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 1/4^*\text{Hb}(4,2,7,\text{plext.plext})^*F^{-4} - 1/4^*\text{Hb}(4,2,7,\text{plext.plext})^*F^{-4}*\sin x^2 - 8/9^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 8/9^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x + 38/27^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}*\sin x^2 - 56/27^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}*\sin x^4 - 1/2^*\text{Hb}(5,1,6,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 1/4^*\text{Hb}(5,1,6,\text{plext.plext})^*F^{-4} - 1/4^*\text{Hb}(5,1,6,\text{plext.plext})^*F^{-4}*\sin x^2 + 1/2^*\text{Hb}(6,1,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 1/4^*\text{Hb}(6,1,5,\text{plext.plext})^*F^{-4} - 1/4^*\text{Hb}(6,1,5,\text{plext.plext})^*F^{-4}*\sin x^2 + 8/9^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 8/9^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x + 38/27^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}*\sin x^2 - 56/27^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}*\sin x^4 + 1/2^*\text{Hb}(7,2,4,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 1/4^*\text{Hb}(7,2,4,\text{plext.plext})^*F^{-4} - 1/4^*\text{Hb}(7,2,4,\text{plext.plext})^*F^{-4}*\sin x^2 + 4/9^*\text{Hb}(8,1,2,\text{plext.plext})^*F^{-4}*\sin x^2 - 4/9^*\text{Hb}(8,1,2,\text{plext.plext})^*F^{-4}*\sin x^4 + 1/3^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 2/3^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x + 1/4^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4} - 2/9^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}*\sin x^2 + 2/9^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}*\sin x^4 - 1/3^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 2/3^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x + 1/4^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4} - 2/9^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}*\sin x^2 + 2/9^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}*\sin x^4 - 128/243^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4}*\sin x^2 + 128/27^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4}*\sin x^4 - 2048/243^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4}*\sin x^6 + 1024/243^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4}*\sin x^8 - \text{H21b}(1,5,6,\text{plext.plext})^*F^{-4}*\sin x^2 - \text{H21b}(2,4,7,\text{plext.plext})^*F^{-4}*\sin x^2 - 4/3^*\text{H21b}(3,1,2,\text{plext.plext})^*F^{-4}*\sin x^2 + 4/3^*\text{H21b}(3,1,2,\text{plext.plext})^*F^{-4}*\sin x^4 - 4^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 2^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x - 5/6^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4}*\sin x^2 - 2/3^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4}*\sin x^4 + 4^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 2^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x - 5/6^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4}*\sin x^2 - 2/3^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4}*\sin x^4 + \text{H21b}(4,2,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + \text{H21b}(5,1,6,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - \text{H21b}(6,1,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - \text{H21b}(7,2,4,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 4/3^*\text{H21b}(8,1,2,\text{plext.plext})^*F^{-4}*\sin x^2 - 4/3^*\text{H21b}(8,1,2,\text{plext.plext})^*F^{-4}*\sin x^4 + 2^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 2^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x - 7/6^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4}*\sin x^2 + 2/3^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4}*\sin x^4 - 2^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 2^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x - 7/6^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4}*\sin x^2 + 2/3^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4}*\sin x^4) \\
& + \text{mpp2}^*\text{mkp2}^2 * (- 15/4096^*F^{-4}*\pi^{-4} - 11/9216^*F^{-4}*\pi^{-2} - 4/9^*F^{-4}*\text{L8r}^*\pi^{-2} - 4/9^*F^{-4}*\text{L7r}^*\pi^{-2} - 4/9^*F^{-4}*\text{L6r}^*\pi^{-2} + 4/27^*F^{-4}*\text{L5r}^*\pi^{-2} + 2/9^*F^{-4}*\text{L4r}^*\pi^{-2} - 512^*F^{-4}*\text{L4r}^*\text{L6r} + 256^*F^{-4}*\text{L4r}^2 + 43/216^*F^{-4}*\text{L3r}^*\pi^{-2} + 13/18^*F^{-4}*\text{L2r}^*\pi^{-2} + 192^*F^{-4}*\text{CC21} + 64^*F^{-4}*\text{CC20} - 64^*F^{-4}*\text{CC16} + 103/3072^*F^{-4}*\sin x^2*\pi^{-4} + 83/13824^*F^{-4}*\sin x^2*\pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 2 + 104/27F^{-4}\sin^2L8r\pi^{-2} + 56/9F^{-4}\sin^2L7r\pi^{-2} + 20/9F^{-4}\sin^2L6r\pi^{-2} - 8/9F^{-4}\sin^2L5r\pi^{-2} + 5120/9F^{-4}\sin^2L5rL8r + 1024F^{-4}\sin^2L5rL7r - 1024/9F^{-4}\sin^2L5r^2 - 10/9F^{-4}\sin^2L4r\pi^{-2} + 1024/3F^{-4}\sin^2L4rL8r + 1024F^{-4}\sin^2L4rL7r - 47/108F^{-4}\sin^2L3r\pi^{-2} - 4/3F^{-4}\sin^2L2r\pi^{-2} - 4/9F^{-4}\sin^2L1r\pi^{-2} - 1024/3F^{-4}\sin^2CC33 - 256/3F^{-4}\sin^2CC32 - 256F^{-4}\sin^2CC31 - 256F^{-4}\sin^2CC20 - 384F^{-4}\sin^2CC19 + 128F^{-4}\sin^2CC18 + 640/9F^{-4}\sin^2CC17 + 512/3F^{-4}\sin^2CC16 + 640/9F^{-4}\sin^2CC14 + 512/9F^{-4}\sin^2CC12 + 1/324\ln(1)F^{-4}\sin^2\pi^{-4} + 64/27\ln(1)F^{-4}\sin^2L8r\pi^{-2} + 64/9\ln(1)F^{-4}\sin^2L7r\pi^{-2} - 1/324\ln(1)F^{-4}\sin^4\pi^{-4} - 64/27\ln(1)F^{-4}\sin^4L8r\pi^{-2} - 64/9\ln(1)F^{-4}\sin^4L7r\pi^{-2} + 13/1296\ln(1)\ln(3)F^{-4}\sin^2\pi^{-4} - 7/432\ln(1)\ln(3)F^{-4}\sin^4\pi^{-4} + 1/162\ln(1)\ln(3)F^{-4}\sin^6\pi^{-4} + 11/768\ln(1)\ln(4)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^{-4} - 1/144\ln(1)\ln(4)F^{-4}\sqrt{3}^{-1}\sin^3\cos^*\pi^{-4} - 1/432\ln(1)\ln(4)F^{-4}\sin^2\pi^{-4} + 1/432\ln(1)\ln(4)F^{-4}\sin^4\pi^{-4} - 11/768\ln(1)\ln(6)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^{-4} + 1/144\ln(1)\ln(6)F^{-4}\sqrt{3}^{-1}\sin^3\cos^*\pi^{-4} - 1/432\ln(1)\ln(6)F^{-4}\sin^2\pi^{-4} + 1/432\ln(1)\ln(6)F^{-4}\sin^4\pi^{-4} - 17/1296\ln(1)\ln(8)F^{-4}\sin^2\pi^{-4} + 25/1296\ln(1)\ln(8)F^{-4}\sin^4\pi^{-4} - 1/162\ln(1)\ln(8)F^{-4}\sin^6\pi^{-4} - 1/192\ln(3)F^{-4}\sin^2\pi^{-4} + 52/9\ln(3)F^{-4}\sin^2L8r\pi^{-2} - 44/9\ln(3)F^{-4}\sin^2L7r\pi^{-2} + 56/9\ln(3)F^{-4}\sin^2L6r\pi^{-2} - 100/27\ln(3)F^{-4}\sin^2L5r\pi^{-2} - 22/9\ln(3)F^{-4}\sin^2L4r\pi^{-2} + 4/3\ln(3)F^{-4}\sin^2L3r\pi^{-2} + 8/3\ln(3)F^{-4}\sin^2L2r\pi^{-2} + 8/3\ln(3)F^{-4}\sin^2L1r\pi^{-2} + 256/9\ln(3)F^{-4}\sin^4L8r\pi^{-2} + 256/3\ln(3)F^{-4}\sin^4L7r\pi^{-2} - 512/27\ln(3)F^{-4}\sin^6L8r\pi^{-2} - 512/9\ln(3)F^{-4}\sin^6L7r\pi^{-2} - 17/10368\ln(3)^2F^{-4}\sin^2\pi^{-4} - 5/864\ln(3)^2F^{-4}\sin^4\pi^{-4} - 5/432\ln(3)^2F^{-4}\sin^6\pi^{-4} + 1/81\ln(3)^2F^{-4}\sin^8\pi^{-4} + 7/864\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^{-4} + 1/32\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1}\sin^3\cos^*\pi^{-4} - 1/108\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1}\sin^5\cos^*\pi^{-4} + 29/2592\ln(3)\ln(4)F^{-4}\sin^2\pi^{-4} - 17/864\ln(3)\ln(4)F^{-4}\sin^4\pi^{-4} + 5/324\ln(3)\ln(4)F^{-4}\sin^6\pi^{-4} - 7/864\ln(3)\ln(6)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^{-4} - 1/32\ln(3)\ln(6)F^{-4}\sqrt{3}^{-1}\sin^3\cos^*\pi^{-4} + 1/108\ln(3)\ln(6)F^{-4}\sqrt{3}^{-1}\sin^5\cos^*\pi^{-4} + 29/2592\ln(3)\ln(6)F^{-4}\sin^2\pi^{-4} - 17/864\ln(3)\ln(6)F^{-4}\sin^4\pi^{-4} + 5/324\ln(3)\ln(8)F^{-4}\sin^2\pi^{-4} - 11/432\ln(3)\ln(8)F^{-4}\sin^4\pi^{-4} + 31/648\ln(3)\ln(8)F^{-4}\sin^6\pi^{-4} - 2/81\ln(3)\ln(8)F^{-4}\sin^8\pi^{-4} + 203/13824\ln(4)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^{-4} + 16/3\ln(4)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*L8r\pi^{-2} + 40/3\ln(4)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*L7r\pi^{-2} + 12\ln(4)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*L6r\pi^{-2} - 4/9\ln(4)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*L5r\pi^{-2} - 35/3\ln(4)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*L4r\pi^{-2} + 47/12\ln(4)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*L3r\pi^{-2} + 8/3\ln(4)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*L2r\pi^{-2} + 32/3\ln(4)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*L1r\pi^{-2} - 1/72\ln(4)F^{-4}\sqrt{3}^{-1}\sin^3\cos^*\pi^{-4} - 32/3\ln(4)F^{-4}\sqrt{3}^{-1}\sin^3\cos^*L8r\pi^{-2} - 32\ln(4)F^{-4}\sqrt{3}^{-1}\sin^3\cos^*L7r\pi^{-2} - 11/4608\ln(4)F^{-4}\pi^{-4} -
\end{aligned}$$

$$\begin{aligned}
& \ln(4)^*F^{-4}*L8r*\pi^{-2} - 2*\ln(4)^*F^{-4}*L6r*\pi^{-2} + 1/2*\ln(4)^*F^{-4}*L5r*\pi^{-2} \\
& + 2*\ln(4)^*F^{-4}*L4r*\pi^{-2} - 5/8*\ln(4)^*F^{-4}*L3r*\pi^{-2} - 1/2*\ln(4)^*F^{-4} \\
& *L2r*\pi^{-2} - 2*\ln(4)^*F^{-4}*L1r*\pi^{-2} + 23/41472*\ln(4)^*F^{-4}*sinx^2*\pi^{-4} \\
& + 22/27*\ln(4)^*F^{-4}*sinx^2*L8r*\pi^{-2} - 20/9*\ln(4)^*F^{-4}*sinx^2*L7r*\pi^{-2} \\
& + 4*\ln(4)^*F^{-4}*sinx^2*L6r*\pi^{-2} - 7/9*\ln(4)^*F^{-4}*sinx^2*L5r*\pi^{-2} - \\
& 11/3*\ln(4)^*F^{-4}*sinx^2*L4r*\pi^{-2} + 11/12*\ln(4)^*F^{-4}*sinx^2*L3r*\pi^{-2} \\
& + 2/3*\ln(4)^*F^{-4}*sinx^2*L2r*\pi^{-2} + 8/3*\ln(4)^*F^{-4}*sinx^2*L1r*\pi^{-2} \\
& + 1/648*\ln(4)^*F^{-4}*sinx^4*\pi^{-4} + 32/27*\ln(4)^*F^{-4}*sinx^4*L8r*\pi^{-2} \\
& + 32/9*\ln(4)^*F^{-4}*sinx^4*L7r*\pi^{-2} - 19/1536*\ln(4)^2*F^{-4}*sqrt3^{-1} \\
& *sinx*cosx*\pi^{-4} + 1/72*\ln(4)^2*F^{-4}*sqrt3^{-1}*sinx^3*cosx*\pi^{-4} - \\
& 1/9216*\ln(4)^2*F^{-4}*\pi^{-4} + 1/4608*\ln(4)^2*F^{-4}*sinx^2*\pi^{-4} - 7/9216*\ln(4)*\ln(6)^*F^{-4} \\
& *\pi^{-4} + 7/864*\ln(4)*\ln(6)^*F^{-4}*sinx^2*\pi^{-4} - 1/216*\ln(4)*\ln(6)^*F^{-4} \\
& *sinx^4*\pi^{-4} + 5/864*\ln(4)*\ln(8)^*F^{-4}*sqrt3^{-1}*sinx*cosx*\pi^{-4} - \\
& 5/288*\ln(4)*\ln(8)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx*\pi^{-4} + 1/108*\ln(4)*\ln(8)^*F^{-4} \\
& *sqrt3^{-1}*sinx^5*cosx*\pi^{-4} - 1/576*\ln(4)*\ln(8)^*F^{-4}*\pi^{-4} - 5/5184*\ln(4)*\ln(8)^*F^{-4} \\
& *sinx^2*\pi^{-4} + 47/2592*\ln(4)*\ln(8)^*F^{-4}*sinx^4*\pi^{-4} - 5/324*\ln(4)*\ln(8)^*F^{-4} \\
& *sinx^6*\pi^{-4} - 203/13824*\ln(6)^*F^{-4}*sqrt3^{-1}*sinx*cosx*\pi^{-4} - 16/3*\ln(6)^*F^{-4} \\
& *sqrt3^{-1}*sinx*cosx*L8r*\pi^{-2} - 40/3*\ln(6)^*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*\pi^{-2} \\
& - 12*\ln(6)^*F^{-4}*sqrt3^{-1}*sinx*cosx*L6r*\pi^{-2} + 4/9*\ln(6)^*F^{-4}*sqrt3^{-1} \\
& *sinx*cosx*L5r*\pi^{-2} + 35/3*\ln(6)^*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*\pi^{-2} - \\
& 47/12*\ln(6)^*F^{-4}*sqrt3^{-1}*sinx*cosx*L3r*\pi^{-2} - 8/3*\ln(6)^*F^{-4}*sqrt3^{-1} \\
& *sinx*cosx*L2r*\pi^{-2} - 32/3*\ln(6)^*F^{-4}*sqrt3^{-1}*sinx*cosx*L1r*\pi^{-2} + \\
& 1/72*\ln(6)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx*\pi^{-4} + 32/3*\ln(6)^*F^{-4}*sqrt3^{-1} \\
& *sinx^3*cosx*L8r*\pi^{-2} + 32*\ln(6)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx*L7r*\pi^{-2} - \\
& 11/4608*\ln(6)^*F^{-4}*\pi^{-4} - \ln(6)^*F^{-4}*L8r*\pi^{-2} - 2*\ln(6)^*F^{-4}*L6r*\pi^{-2} \\
& + 1/2*\ln(6)^*F^{-4}*L5r*\pi^{-2} + 2*\ln(6)^*F^{-4}*L4r*\pi^{-2} - 5/8*\ln(6)^*F^{-4} \\
& *L3r*\pi^{-2} - 1/2*\ln(6)^*F^{-4}*L2r*\pi^{-2} - 2*\ln(6)^*F^{-4}*L1r*\pi^{-2} + \\
& 23/41472*\ln(6)^*F^{-4}*sinx^2*\pi^{-4} + 22/27*\ln(6)^*F^{-4}*sinx^2*L8r*\pi^{-2} \\
& - 20/9*\ln(6)^*F^{-4}*sinx^2*L7r*\pi^{-2} + 4*\ln(6)^*F^{-4}*sinx^2*L6r*\pi^{-2} - \\
& 7/9*\ln(6)^*F^{-4}*sinx^2*L5r*\pi^{-2} - 11/3*\ln(6)^*F^{-4}*sinx^2*L4r*\pi^{-2} + \\
& 11/12*\ln(6)^*F^{-4}*sinx^2*L3r*\pi^{-2} + 2/3*\ln(6)^*F^{-4}*sinx^2*L2r*\pi^{-2} \\
& + 8/3*\ln(6)^*F^{-4}*sinx^2*L1r*\pi^{-2} + 1/648*\ln(6)^*F^{-4}*sinx^4*\pi^{-4} + \\
& 32/27*\ln(6)^*F^{-4}*sinx^4*L8r*\pi^{-2} + 32/9*\ln(6)^*F^{-4}*sinx^4*L7r*\pi^{-2} + \\
& 19/1536*\ln(6)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*\pi^{-4} - 1/72*\ln(6)^2*F^{-4}*sqrt3^{-1} \\
& *sinx^3*cosx*\pi^{-4} - 1/9216*\ln(6)^2*F^{-4}*\pi^{-4} + 1/4608*\ln(6)^2*F^{-4} \\
& *sinx^2*\pi^{-4} - 5/864*\ln(6)*\ln(8)^*F^{-4}*sqrt3^{-1}*sinx*cosx*\pi^{-4} + \\
& 5/288*\ln(6)*\ln(8)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx*\pi^{-4} - 1/108*\ln(6)*\ln(8)^*F^{-4} \\
& *sqrt3^{-1}*sinx^5*cosx*\pi^{-4} - 1/576*\ln(6)*\ln(8)^*F^{-4}*\pi^{-4} - 5/5184*\ln(6)*\ln(8)^*F^{-4} \\
& *sinx^2*\pi^{-4} + 47/2592*\ln(6)*\ln(8)^*F^{-4}*sinx^4*\pi^{-4} - 5/324*\ln(6)*\ln(8)^*F^{-4} \\
& *sinx^6*\pi^{-4} + 1/1296*\ln(8)^*F^{-4}*\pi^{-4} - 4/9*\ln(8)^*F^{-4}*L8r*\pi^{-2} + \\
& 4/3*\ln(8)^*F^{-4}*L7r*\pi^{-2} - 8/3*\ln(8)^*F^{-4}*L6r*\pi^{-2} + 4/9*\ln(8)^*F^{-4} \\
& *L5r*\pi^{-2} + 22/9*\ln(8)^*F^{-4}*L4r*\pi^{-2} - 4/9*\ln(8)^*F^{-4}*L3r*\pi^{-2} - \\
& 4/9*\ln(8)^*F^{-4}*L2r*\pi^{-2} - 16/9*\ln(8)^*F^{-4}*L1r*\pi^{-2} - 1/1296*\ln(8)^*F^{-4} \\
& *sinx^2*\pi^{-4} + 268/27*\ln(8)^*F^{-4}*sinx^2*L8r*\pi^{-2} + 244/9*\ln(8)^*F^{-4} \\
& *sinx^2*L7r*\pi^{-2} + 8/3*\ln(8)^*F^{-4}*sinx^2*L6r*\pi^{-2} - 4/9*\ln(8)^*F^{-4} \\
& *sinx^2*L5r*\pi^{-2} - 22/9*\ln(8)^*F^{-4}*sinx^2*L4r*\pi^{-2} + 4/9*\ln(8)^*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2*L3r*\pi^{-2} + 4/9*\ln(8)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 16/9*\ln(8)*F^{-4}*\sin x^2*L1r*\pi^{-2} - 256/9*\ln(8)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 256/3*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 512/27*\ln(8)*F^{-4}*\sin x^6*L8r*\pi^{-2} + 512/9*\ln(8)*F^{-4}*\sin x^6*L7r*\pi^{-2} + 1/1152*\ln(8)^2*F^{-4}*\pi^{-4} - 85/10368*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} + 1/32*\ln(8)^2*F^{-4}*\sin x^4*\pi^{-4} - 47/1296*\ln(8)^2*F^{-4}*\sin x^6*\pi^{-4} + 1/81*\ln(8)^2*F^{-4}*\sin x^8*\pi^{-4}) \\
& + \text{mpp}2*\text{mkp}2^3 * (+ 41/1296/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 5/2916/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} - 1048576/81/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^2*L8r^2 - 2097152/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^2*L7r*L8r - 1048576/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^2*L7r^2 + 1048576/81/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^4*L8r^2 + 2097152/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^4*L7r*L8r + 1048576/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^4*L7r^2 + 1/486/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(3)*F^{-4}*\sin x^2*\pi^{-4} - 1/486/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} + 1/288/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/288/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/486/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 1/486/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 512/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 512/27/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^2*L7r*\pi^{-2} + 3584/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} + 3584/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 5120/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^6*L8r*\pi^{-2} - 5120/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^6*L7r*\pi^{-2} + 1/1458/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 13/1458/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} + 2/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} + 4/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^8*\pi^{-4} + 167/15552/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 19/972/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 7/972/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} - 13/972/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + 5/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sin x^6*\pi^{-4} - 167/15552/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 19/972/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 7/972/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} - 13/972/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + 5/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sin x^6*\pi^{-4} - 7/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 1/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 16/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 8/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^8*\pi^{-4} - 368/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 368/9/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 1024/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} + 1024/9/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} + 2048/81/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 2048/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 2048/81/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 2048/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^4*L7r*\pi^{-2} + 5/432/(mass(3) - mass(8))*\ln(4)^2*F^{-4}*sqrt3^{\wedge}- \\
& 1^*\sin x*\cos x*\pi^{-4} - 1/27/(mass(3) - mass(8))*\ln(4)^2*F^{-4}*sqrt3^{\wedge}-1^*\sin x^3*\cos x*\pi^{-4} \\
& + 1/1728/(mass(3) - mass(8))*\ln(4)^2*F^{-4}*pi^{-4} - 73/5184/(mass(3) - \\
& mass(8))*\ln(4)^2*F^{-4}*sin x^2*\pi^{-4} + 1/81/(mass(3) - mass(8))*\ln(4)^2*F^{-4}* \\
& 4^*\sin x^4*\pi^{-4} - 1/864/(mass(3) - mass(8))*\ln(4)*\ln(6)*F^{-4}*pi^{-4} - \\
& 55/2592/(mass(3) - mass(8))*\ln(4)*\ln(6)*F^{-4}*sin x^2*\pi^{-4} + 2/81/(mass(3) - \\
& mass(8))*\ln(4)*\ln(6)*F^{-4}*sin x^4*\pi^{-4} + 109/15552/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4}* \\
& 4^*\sqrt3^{\wedge}-1^*\sin x*\cos x*\pi^{-4} - 29/972/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4}* \\
& 4^*\sqrt3^{\wedge}-1^*\sin x^3*\cos x*\pi^{-4} + 1/81/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4}* \\
& 4^*\sqrt3^{\wedge}-1^*\sin x^5*\cos x*\pi^{-4} - 25/972/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4}* \\
& 4^*\sin x^2*\pi^{-4} + 5/108/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4}*sin x^4*\pi^{-4} - \\
& 5/243/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4}*sin x^6*\pi^{-4} + 368/27/(mass(3) \\
& - mass(8))*\ln(6)*F^{-4}*sqrt3^{\wedge}-1^*\sin x*\cos x*L8r*\pi^{-2} + 368/9/(mass(3) - \\
& mass(8))*\ln(6)*F^{-4}*sqrt3^{\wedge}-1^*\sin x*\cos x*L7r*\pi^{-2} - 1024/27/(mass(3) - \\
& mass(8))*\ln(6)*F^{-4}*sqrt3^{\wedge}-1^*\sin x^3*\cos x*L8r*\pi^{-2} - 1024/9/(mass(3) - \\
& mass(8))*\ln(6)*F^{-4}*sqrt3^{\wedge}-1^*\sin x^3*\cos x*L7r*\pi^{-2} + 2048/81/(mass(3) - \\
& mass(8))*\ln(6)*F^{-4}*sin x^2*L8r*\pi^{-2} + 2048/27/(mass(3) - mass(8))*\ln(6)*F^{-4}* \\
& 4^*\sin x^2*L7r*\pi^{-2} - 2048/81/(mass(3) - mass(8))*\ln(6)*F^{-4}*sin x^4*L8r*\pi^{-2} \\
& - 2048/27/(mass(3) - mass(8))*\ln(6)*F^{-4}*sin x^4*L7r*\pi^{-2} - 5/432/(mass(3) \\
& - mass(8))*\ln(6)^2*F^{-4}*sqrt3^{\wedge}-1^*\sin x*\cos x*\pi^{-4} + 1/27/(mass(3) - \\
& mass(8))*\ln(6)^2*F^{-4}*sqrt3^{\wedge}-1^*\sin x^3*\cos x*\pi^{-4} + 1/1728/(mass(3) - \\
& mass(8))*\ln(6)^2*F^{-4}*pi^{-4} - 73/5184/(mass(3) - mass(8))*\ln(6)^2*F^{-4}* \\
& 4^*\sin x^2*\pi^{-4} + 1/81/(mass(3) - mass(8))*\ln(6)^2*F^{-4}*sin x^4*\pi^{-4} - \\
& 109/15552/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*sqrt3^{\wedge}-1^*\sin x*\cos x*\pi^{-4} \\
& + 29/972/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*sqrt3^{\wedge}-1^*\sin x^3*\cos x*\pi^{-4} \\
& - 1/81/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*sqrt3^{\wedge}-1^*\sin x^5*\cos x*\pi^{-4} \\
& - 25/972/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*sin x^2*\pi^{-4} + \\
& 5/108/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*sin x^4*\pi^{-4} - 5/243/(mass(3) - \\
& mass(8))*\ln(6)*\ln(8)*F^{-4}*sin x^6*\pi^{-4} + 6656/243/(mass(3) - mass(8))*\ln(8)*F^{-4}* \\
& 4^*\sin x^2*L8r*\pi^{-2} + 6656/81/(mass(3) - mass(8))*\ln(8)*F^{-4}*sin x^2*L7r*\pi^{-2} \\
& - 11776/243/(mass(3) - mass(8))*\ln(8)*F^{-4}*sin x^4*L8r*\pi^{-2} - 11776/81/(mass(3) \\
& - mass(8))*\ln(8)*F^{-4}*sin x^4*L7r*\pi^{-2} + 5120/243/(mass(3) - mass(8))*\ln(8)*F^{-4}* \\
& 4^*\sin x^6*L8r*\pi^{-2} + 5120/81/(mass(3) - mass(8))*\ln(8)*F^{-4}*sin x^6*L7r*\pi^{-2} \\
& - 19/1458/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*sin x^2*\pi^{-4} + 47/1458/(mass(3) \\
& - mass(8))*\ln(8)^2*F^{-4}*sin x^4*\pi^{-4} - 2/81/(mass(3) - mass(8))*\ln(8)^2*F^{-4}* \\
& 4^*\sin x^6*\pi^{-4} + 4/729/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*sin x^8*\pi^{-4} + \\
& 103/4608/(mass(4))*\ln(4)^2*F^{-4}*sqrt3^{\wedge}-1^*\sin x*\cos x*\pi^{-4} - 29/18432/(mass(4))*\ln(4)^2*F^{-4}* \\
& 4^*\pi^{-4} + 13/3072/(mass(4))*\ln(4)^2*F^{-4}*sin x^2*\pi^{-4} + 79/4608/(mass(5))*\ln(4)^2*F^{-4}* \\
& 4^*\sqrt3^{\wedge}-1^*\sin x*\cos x*\pi^{-4} - 25/18432/(mass(5))*\ln(4)^2*F^{-4}*pi^{-4} + \\
& 13/3072/(mass(5))*\ln(4)^2*F^{-4}*sin x^2*\pi^{-4} - 103/4608/(mass(6))*\ln(6)^2*F^{-4}* \\
& 4^*\sqrt3^{\wedge}-1^*\sin x*\cos x*\pi^{-4} - 29/18432/(mass(6))*\ln(6)^2*F^{-4}*pi^{-4} + \\
& 13/3072/(mass(6))*\ln(6)^2*F^{-4}*sin x^2*\pi^{-4} - 79/4608/(mass(7))*\ln(6)^2*F^{-4}* \\
& 4^*\sqrt3^{\wedge}-1^*\sin x*\cos x*\pi^{-4} - 25/18432/(mass(7))*\ln(6)^2*F^{-4}*pi^{-4} + \\
& 13/3072/(mass(7))*\ln(6)^2*F^{-4}*sin x^2*\pi^{-4} - 1/576/(mass(8))*\ln(8)^2*F^{-4}* \\
& 4^*\pi^{-4} + 1/46656/(mass(8))*\ln(8)^2*F^{-4}*sin x^2*\pi^{-4} + 5/2916/(mass(8))*\ln(8)^2*F^{-4}* \\
& 4^*\sin x^4*\pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& + \text{mpp2}^2 * (+ 4 * \text{HH1b}(1,2,3, \text{plext.plext}) * F^{-4} - 28/9 * \text{HH1b}(1,2,3, \text{plext.plext}) * F^{-4} * \sin^2 - 8/9 * \text{HH1b}(1,2,3, \text{plext.plext}) * F^{-4} * \sin^4 - 8/9 * \text{HH1b}(1,2,8, \text{plext.plext}) * F^{-4} * \sin^2 + 8/9 * \text{HH1b}(1,2,8, \text{plext.plext}) * F^{-4} * \sin^4 - 2/3 * \text{HH1b}(1,5,6, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos + \text{HH1b}(1,5,6, \text{plext.plext}) * F^{-4} - 2/3 * \text{HH1b}(1,5,6, \text{plext.plext}) * F^{-4} * \sin^2 + 4 * \text{HH1b}(2,1,3, \text{plext.plext}) * F^{-4} - 28/9 * \text{HH1b}(2,1,3, \text{plext.plext}) * F^{-4} * \sin^2 - 8/9 * \text{HH1b}(2,1,3, \text{plext.plext}) * F^{-4} * \sin^4 - 8/9 * \text{HH1b}(2,1,8, \text{plext.plext}) * F^{-4} * \sin^2 + 8/9 * \text{HH1b}(2,1,8, \text{plext.plext}) * F^{-4} * \sin^4 - 2/3 * \text{HH1b}(2,4,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos + \text{HH1b}(2,4,7, \text{plext.plext}) * F^{-4} - 2/3 * \text{HH1b}(2,4,7, \text{plext.plext}) * F^{-4} * \sin^2 - 28/9 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos - 4/9 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos - 1/2 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} - 4/3 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} * \sin^2 + 4/3 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} * \sin^4 + 28/9 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos + 4/9 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos - 1/2 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} - 4/3 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} * \sin^2 + 4/3 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} * \sin^4 - 4/3 * \text{HH1b}(4,2,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos + 2/9 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos - 4/9 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos + 1/2 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} - 2 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} * \sin^2 + 4/3 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} * \sin^4 - 4/3 * \text{HH1b}(5,1,6, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos + 2/9 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos - 4/9 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos + 1/2 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} - 2 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} * \sin^2 + 4/3 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} * \sin^4 - 2/9 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos + 4/9 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos + 1/2 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} - 2 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} * \sin^2 + 4/3 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} * \sin^4 - 2/9 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos + 4/9 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos + 1/2 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} - 2 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} * \sin^2 + 4/3 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} * \sin^4 - 3 * \text{Hb}(1,2,3, \text{plext.plext}) * F^{-4} + 16/9 * \text{Hb}(1,2,3, \text{plext.plext}) * F^{-4} * \sin^2 + 4/3 * \text{Hb}(1,2,3, \text{plext.plext}) * F^{-4} * \sin^4 + 4/3 * \text{Hb}(1,2,8, \text{plext.plext}) * F^{-4} * \sin^2 - 4/3 * \text{Hb}(1,2,8, \text{plext.plext}) * F^{-4} * \sin^4 + 2/3 * \text{Hb}(1,5,6, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos - 5/8 * \text{Hb}(1,5,6, \text{plext.plext}) * F^{-4} + 2/3 * \text{Hb}(1,5,6, \text{plext.plext}) * F^{-4} * \sin^2 + 2/3 * \text{Hb}(2,4,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos - 5/8 * \text{Hb}(2,4,7, \text{plext.plext}) * F^{-4} + 2/3 * \text{Hb}(2,4,7, \text{plext.plext}) * F^{-4} * \sin^2 + \text{Hb}(3,1,2, \text{plext.plext}) * F^{-4} - 10/9 * \text{Hb}(3,1,2, \text{plext.plext}) * F^{-4} * \sin^2 + 1/9 * \text{Hb}(3,1,2, \text{plext.plext}) * F^{-4} * \sin^4 + 1/6 * \text{Hb}(3,3,3, \text{plext.plext}) * F^{-4} + 16/243 * \text{Hb}(3,3,3, \text{plext.plext}) * F^{-4} * \sin^2 + 160/81 * \text{Hb}(3,3,3, \text{plext.plext}) * F^{-4} * \sin^4 - 1024/243 * \text{Hb}(3,3,3, \text{plext.plext}) * F^{-4} * \sin^6 + 512/243 * \text{Hb}(3,3,3, \text{plext.plext}) * F^{-4} * \sin^8 + 64/81 * \text{Hb}(3,3,8, \text{plext.plext}) * F^{-4} * \sin^2 - 64/9 * \text{Hb}(3,3,8, \text{plext.plext}) * F^{-4} * \sin^4 + 1024/81 * \text{Hb}(3,3,8, \text{plext.plext}) * F^{-4} * \sin^6 - 512/81 * \text{Hb}(3,3,8, \text{plext.plext}) * F^{-4} * \sin^8 + 83/36 * \text{Hb}(3,4,5, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos - 17/18 * \text{Hb}(3,4,5, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos + 5/16 * \text{Hb}(3,4,5, \text{plext.plext}) * F^{-4} + 47/54 * \text{Hb}(3,4,5, \text{plext.plext}) * F^{-4} * \sin^2 - 47/54 * \text{Hb}(3,4,5, \text{plext.plext}) * F^{-4} * \sin^4 - 83/36 * \text{Hb}(3,6,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos + 17/18 * \text{Hb}(3,6,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos + 5/16 * \text{Hb}(3,6,7, \text{plext.plext}) * F^{-4} + 47/54 * \text{Hb}(3,6,7, \text{plext.plext}) * F^{-4} * \sin^2 - 47/54 * \text{Hb}(3,6,7, \text{plext.plext}) * F^{-4} * \sin^4 + 1/18 * \text{Hb}(3,8,8, \text{plext.plext}) * F^{-4} - 32/27 * \text{Hb}(3,8,8, \text{plext.plext}) * F^{-4} * \sin^2 + 608/81 * \text{Hb}(3,8,8, \text{plext.plext}) * F^{-4} * \sin^4 - 1024/81 * \text{Hb}(3,8,8, \text{plext.plext}) * F^{-4} * \sin^6 + 512/81 * \text{Hb}(3,8,8, \text{plext.plext}) * F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^8 + 1/4^*\text{Hb}(4,2,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x - 7/9^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x \\
& + 14/9^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x \\
& - 5/12^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4} + 32/27^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}\sin x^2 - 14/27^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}\sin x^4 + 1/4^*\text{Hb}(5,1,6,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x \\
& - 1/4^*\text{Hb}(6,1,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x + 7/9^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x - 14/9^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x \\
& - 5/12^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4} + 32/27^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}\sin x^2 - 14/27^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}\sin x^4 - 1/4^*\text{Hb}(7,2,4,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x \\
& + 1/9^*\text{Hb}(8,1,2,\text{plext.plext})^*F^{-4}\sin x^2 - 1/9^*\text{Hb}(8,1,2,\text{plext.plext})^*F^{-4}\sin x^4 + 1/12^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x - 1/6^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x \\
& - 1/16^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4} - 1/18^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}\sin x^2 + 1/18^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x \\
& - 1/16^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4} - 1/18^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}\sin x^2 + 1/18^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}\sin x^4 + 64/243^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4}\sin x^2 - 64/27^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4}\sin x^4 + 1024/243^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4}\sin x^6 - 512/243^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4}\sin x^8 - 3/8^*\text{H21b}(1,5,6,\text{plext.plext})^*F^{-4} + 1/2^*\text{H21b}(1,5,6,\text{plext.plext})^*F^{-4}\sin x^2 - 3/8^*\text{H21b}(2,4,7,\text{plext.plext})^*F^{-4} + 1/2^*\text{H21b}(2,4,7,\text{plext.plext})^*F^{-4}\sin x^2 + 3^*\text{H21b}(3,1,2,\text{plext.plext})^*F^{-4} - 10/3^*\text{H21b}(3,1,2,\text{plext.plext})^*F^{-4}\sin x^2 + 1/3^*\text{H21b}(3,1,2,\text{plext.plext})^*F^{-4}\sin x^4 + 5/4^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x + 1/2^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x + 3/16^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4} + 1/6^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4}\sin x^2 - 1/6^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4}\sin x^4 - 5/4^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x - 1/2^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x + 3/16^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4} + 1/6^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4}\sin x^2 - 1/6^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4}\sin x^4 - 5/4^*\text{H21b}(4,2,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x + 3/4^*\text{H21b}(4,2,7,\text{plext.plext})^*F^{-4} - 3/4^*\text{H21b}(5,1,6,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x + 3/4^*\text{H21b}(5,1,6,\text{plext.plext})^*F^{-4} - 3/4^*\text{H21b}(5,1,6,\text{plext.plext})^*F^{-4}\sin x^2 + 5/4^*\text{H21b}(6,1,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x + 3/4^*\text{H21b}(6,1,5,\text{plext.plext})^*F^{-4} - 3/4^*\text{H21b}(7,2,4,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x + 3/4^*\text{H21b}(7,2,4,\text{plext.plext})^*F^{-4} - 3/4^*\text{H21b}(7,2,4,\text{plext.plext})^*F^{-4}\sin x^2 + 1/3^*\text{H21b}(8,1,2,\text{plext.plext})^*F^{-4}\sin x^2 - 1/3^*\text{H21b}(8,1,2,\text{plext.plext})^*F^{-4}\sin x^4 + 5/4^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x - 1/2^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x + 9/16^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4} - 2/3^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4}\sin x^2 + 1/6^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4}\sin x^4 - 5/4^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x + 1/2^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x + 9/16^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4} - 2/3^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4}\sin x^2 + 1/6^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4}\sin x^4) \\
& + \text{mpp2}^2*\text{mkp2} * (- 139/55296^*F^{-4}\pi^{-4} - 37/82944^*F^{-4}\pi^{-2} + 4/9^*F^{-4}\text{L8r}*\pi^{-2} + 8/9^*F^{-4}\text{L7r}*\pi^{-2} + 8/9^*F^{-4}\text{L6r}*\pi^{-2} - 2/27^*F^{-4}\text{L5r}*\pi^{-2} - 256^*F^{-4}\text{L5r}*\text{L6r} - 4/9^*F^{-4}\text{L4r}*\pi^{-2} - 256^*F^{-4}\text{L4r}*\text{L8r} - 512^*F^{-4}\text{L4r}*\text{L6r} + 256^*F^{-4}\text{L4r}*\text{L5r} + 256^*F^{-4}\text{L4r}^2 - 1/27^*F^{-4}\text{L3r}*\pi^{-2} - 1/9^*F^{-4}\text{L2r}*\pi^{-2} + 64^*F^{-4}\text{CC32} + 192^*F^{-4}\text{CC21} + 64^*F^{-4}\text{CC16} - 32^*F^{-4}\text{CC15} - 64^*F^{-4}\text{CC13} -
\end{aligned}$$

$$\begin{aligned}
& 3299/331776 * F^{-4} * \sin x^{2 * \pi} - 427/248832 * F^{-4} * \sin x^{2 * \pi} - 64/27 * F^{-4} * \sin x^{2 * \pi} \\
& - 2 * L8r * \pi^{-2} - 16/3 * F^{-4} * \sin x^{2 * \pi} - 4 * L7r * \pi^{-2} - 4/3 * F^{-4} * \sin x^{2 * \pi} - 2 * L6r * \pi^{-2} \\
& + 8/27 * F^{-4} * \sin x^{2 * \pi} - 2 * L5r * \pi^{-2} - 2560/9 * F^{-4} * \sin x^{2 * \pi} - 2 * L5r * L8r - 2048/3 * F^{-4} * \sin x^{2 * \pi} \\
& - 4 * L5r * L7r + 1024/3 * F^{-4} * \sin x^{2 * \pi} - 2 * L5r * L6r + 256/9 * F^{-4} * \sin x^{2 * \pi} - 2 * L5r^2 \\
& + 2/3 * F^{-4} * \sin x^{2 * \pi} - 2 * L4r * \pi^{-2} + 1024/3 * F^{-4} * \sin x^{2 * \pi} - 2 * L4r * L8r + 512 * F^{-4} * \sin x^{2 * \pi} \\
& - 4 * L4r * L6r - 1024/3 * F^{-4} * \sin x^{2 * \pi} - 2 * L4r * L5r - 256 * F^{-4} * \sin x^{2 * \pi} - 2 * L4r^2 \\
& + 7/27 * F^{-4} * \sin x^{2 * \pi} - 2 * L3r * \pi^{-2} + 13/18 * F^{-4} * \sin x^{2 * \pi} - 2 * L2r * \pi^{-2} + 1/9 * F^{-4} * \sin x^{2 * \pi} \\
& - 4 * L1r * \pi^{-2} + 512/3 * F^{-4} * \sin x^{2 * \pi} - 2 * CC33 - 256/3 * F^{-4} * \sin x^{2 * \pi} - 2 * CC32 + 128 * F^{-4} * \sin x^{2 * \pi} \\
& - 2 * CC31 - 192 * F^{-4} * \sin x^{2 * \pi} - 2 * CC21 + 64 * F^{-4} * \sin x^{2 * \pi} - 2 * CC20 + 192 * F^{-4} * \sin x^{2 * \pi} - 2 * CC19 \\
& - 256/3 * F^{-4} * \sin x^{2 * \pi} - 2 * CC18 - 320/9 * F^{-4} * \sin x^{2 * \pi} - 2 * CC17 - 448/3 * F^{-4} * \sin x^{2 * \pi} - 2 * CC16 \\
& + 128/3 * F^{-4} * \sin x^{2 * \pi} - 2 * CC15 - 320/9 * F^{-4} * \sin x^{2 * \pi} - 2 * CC14 + 256/3 * F^{-4} * \sin x^{2 * \pi} - 2 * CC13 \\
& - 128/9 * F^{-4} * \sin x^{2 * \pi} - 2 * CC12 - 1/256 * \ln(1) * F^{-4 * \pi} - 4 + 4 * \ln(1) * F^{-4 * \pi} - 4 * L6r * \pi^{-2} - 3 * \ln(1) * F^{-4 * \pi} - 4 * L4r * \pi^{-2} \\
& - 23/20736 * \ln(1) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 4 - 128/27 * \ln(1) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 2 * L8r * \pi^{-2} \\
& - 104/9 * \ln(1) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 2 * L7r * \pi^{-2} - 8 * \ln(1) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 2 * L6r * \pi^{-2} \\
& + 4/9 * \ln(1) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 2 * L5r * \pi^{-2} + 20/3 * \ln(1) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 2 * L4r * \pi^{-2} \\
& - 2/3 * \ln(1) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 2 * L3r * \pi^{-2} - 2/3 * \ln(1) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 2 * L2r * \pi^{-2} \\
& - 8/3 * \ln(1) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 2 * L1r * \pi^{-2} + 1/162 * \ln(1) * F^{-4 * \pi} - 4 * \sin x^{4 * \pi} - 4 + 128/27 * \ln(1) * F^{-4 * \pi} \\
& - 4 * \sin x^{4 * \pi} - 4 * L8r * \pi^{-2} + 128/9 * \ln(1) * F^{-4 * \pi} - 4 * \sin x^{4 * \pi} - 4 * L7r * \pi^{-2} - 35/5184 * \ln(1) * \ln(3) * F^{-4 * \pi} \\
& - 4 * \sin x^{2 * \pi} - 4 + 1/48 * \ln(1) * \ln(3) * F^{-4 * \pi} - 4 * \sin x^{4 * \pi} - 4 - 1/81 * \ln(1) * \ln(3) * F^{-4 * \pi} - 4 * \sin x^{6 * \pi} - 4 \\
& - 1/288 * \ln(1) * \ln(4) * F^{-4 * \pi} - 4 * \sin x^{3 * \pi} - 1 * \cos x * \pi^{-4} - 1/144 * \ln(1) * \ln(4) * F^{-4 * \pi} - 4 * \sin x^{3 * \pi} - 1 * \cos x * \pi^{-4} \\
& + 37/13824 * \ln(1) * \ln(4) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 4 - 1/216 * \ln(1) * \ln(4) * F^{-4 * \pi} - 4 * \sin x^{4 * \pi} - 4 + 1/288 * \ln(1) * \ln(6) * F^{-4 * \pi} \\
& - 4 * \sin x^{2 * \pi} - 4 * \sqrt{3} - 1 * \cos x * \pi^{-4} + 1/144 * \ln(1) * \ln(6) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 4 * \sqrt{3} - 1 * \cos x * \pi^{-4} \\
& + 37/13824 * \ln(1) * \ln(6) * F^{-4 * \pi} - 4 * \sin x^{4 * \pi} - 4 - 1/576 * \ln(1) * \ln(8) * F^{-4 * \pi} - 4 + 85/5184 * \ln(1) * \ln(8) * F^{-4 * \pi} \\
& - 4 * \sin x^{2 * \pi} - 4 - 35/1296 * \ln(1) * \ln(8) * F^{-4 * \pi} - 4 * \sin x^{4 * \pi} - 4 + 1/81 * \ln(1) * \ln(8) * F^{-4 * \pi} - 4 * \sin x^{6 * \pi} - 4 \\
& - 2 * \ln(3) * F^{-4 * \pi} - 4 * L6r * \pi^{-2} + 3/2 * \ln(3) * F^{-4 * \pi} - 4 * L4r * \pi^{-2} - 5/5184 * \ln(3) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 4 - 76/27 * \ln(3) * F^{-4 * \pi} \\
& - 4 * \sin x^{2 * \pi} - 2 * L8r * \pi^{-2} + 64/9 * \ln(3) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 2 * L7r * \pi^{-2} - 16/9 * \ln(3) * F^{-4 * \pi} \\
& - 4 * \sin x^{2 * \pi} - 2 * L6r * \pi^{-2} + 70/27 * \ln(3) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 2 * L5r * \pi^{-2} + 7/9 * \ln(3) * F^{-4 * \pi} \\
& - 4 * \sin x^{2 * \pi} - 2 * L4r * \pi^{-2} - 1/3 * \ln(3) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 2 * L3r * \pi^{-2} - 2/3 * \ln(3) * F^{-4 * \pi} \\
& - 4 * \sin x^{2 * \pi} - 2 * L2r * \pi^{-2} - 2/3 * \ln(3) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 2 * L1r * \pi^{-2} + 1/324 * \ln(3) * F^{-4 * \pi} \\
& - 4 * \sin x^{4 * \pi} - 4 - 208/9 * \ln(3) * F^{-4 * \pi} - 4 * \sin x^{4 * \pi} - 4 * L8r * \pi^{-2} - 704/9 * \ln(3) * F^{-4 * \pi} \\
& - 4 * \sin x^{4 * \pi} - 4 * L7r * \pi^{-2} + 32/9 * \ln(3) * F^{-4 * \pi} - 4 * \sin x^{4 * \pi} - 4 * L6r * \pi^{-2} - 40/27 * \ln(3) * F^{-4 * \pi} \\
& - 4 * \sin x^{4 * \pi} - 4 * L5r * \pi^{-2} - 8/3 * \ln(3) * F^{-4 * \pi} - 4 * \sin x^{4 * \pi} - 4 * L4r * \pi^{-2} + 512/27 * \ln(3) * F^{-4 * \pi} \\
& - 4 * \sin x^{6 * \pi} - 4 * L8r * \pi^{-2} + 512/9 * \ln(3) * F^{-4 * \pi} - 4 * \sin x^{6 * \pi} - 4 * L7r * \pi^{-2} + 1/5184 * \ln(3)^2 * F^{-4 * \pi} \\
& - 4 * \sin x^{2 * \pi} - 4 + 73/5184 * \ln(3)^2 * F^{-4 * \pi} - 4 * \sin x^{4 * \pi} - 4 - 31/2592 * \ln(3)^2 * F^{-4 * \pi} - 4 * \sin x^{6 * \pi} - 4 \\
& - 19/1728 * \ln(3) * \ln(4) * F^{-4 * \pi} - 4 * \sin x^{3 * \pi} - 1 * \cos x * \pi^{-4} - 7/1728 * \ln(3) * \ln(4) * F^{-4 * \pi} \\
& - 4 * \sin x^{3 * \pi} - 1 * \cos x * \pi^{-4} - 1/1024 * \ln(3) * \ln(4) * F^{-4 * \pi} - 4 * \pi^{-4} - 65/5184 * \ln(3) * \ln(4) * F^{-4 * \pi} \\
& - 4 * \sin x^{2 * \pi} - 4 + 43/1728 * \ln(3) * \ln(4) * F^{-4 * \pi} - 4 * \sin x^{4 * \pi} - 4 - 1/81 * \ln(3) * \ln(4) * F^{-4 * \pi} \\
& - 4 * \sin x^{6 * \pi} - 4 + 19/1728 * \ln(3) * \ln(6) * F^{-4 * \pi} - 4 * \sqrt{3} - 1 * \cos x * \pi^{-4} + 7/1728 * \ln(3) * \ln(6) * F^{-4 * \pi} \\
& - 4 * \sqrt{3} - 1 * \cos x * \pi^{-4} - 1/1024 * \ln(3) * \ln(6) * F^{-4 * \pi} - 4 * \pi^{-4} - 65/5184 * \ln(3) * \ln(6) * F^{-4 * \pi} \\
& - 4 * \sin x^{2 * \pi} - 4 + 43/1728 * \ln(3) * \ln(6) * F^{-4 * \pi} - 4 * \sin x^{4 * \pi} - 4 - 1/81 * \ln(3) * \ln(6) * F^{-4 * \pi} \\
& - 4 * \sin x^{6 * \pi} - 4 + 1/1152 * \ln(3) * \ln(8) * F^{-4 * \pi} - 4 * \pi^{-4} - 7/2592 * \ln(3) * \ln(8) * F^{-4 * \pi} - 4 * \sin x^{2 * \pi} - 4 +
\end{aligned}$$

$$\begin{aligned}
& 1/288*\ln(3)*\ln(8)*F^{-4}*\sin^4*\pi^{-4} - 1/1296*\ln(3)*\ln(8)*F^{-4}*\sin^6*\pi^{-4} \\
& - 61/6912*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*\pi^{-4} - 68/9*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin*\cos*L8r*\pi^{-2} - 40/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*L7r*\pi^{-2} \\
& - 8*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*L6r*\pi^{-2} + 14/9*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin*\cos*L5r*\pi^{-2} + 22/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*L4r*\pi^{-2} \\
& - 11/6*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*L3r*\pi^{-2} - 4/3*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin*\cos*L2r*\pi^{-2} - 16/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*L1r*\pi^{-2} + \\
& 1/108*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos*\pi^{-4} + 64/9*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin^3*\cos*L8r*\pi^{-2} + 64/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos*L7r*\pi^{-2} \\
& + 155/41472*\ln(4)*F^{-4}*\sin^2*\pi^{-4} + 64/27*\ln(4)*F^{-4}*\sin^2*L8r*\pi^{-2} \\
& + 64/9*\ln(4)*F^{-4}*\sin^2*L7r*\pi^{-2} - 1/324*\ln(4)*F^{-4}*\sin^4*\pi^{-4} - \\
& 64/27*\ln(4)*F^{-4}*\sin^4*L8r*\pi^{-2} - 64/9*\ln(4)*F^{-4}*\sin^4*L7r*\pi^{-2} + \\
& 1/768*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*\pi^{-4} - 1/288*\ln(4)^2*F^{-4}*\sqrt{3}^{-1} \\
& * \sin^3*\cos*\pi^{-4} - 1/288*\ln(4)^2*F^{-4}*\sin^2*\pi^{-4} + 1/288*\ln(4)^2*F^{-4} \\
& * \sin^4*\pi^{-4} - 1/432*\ln(4)*\ln(6)*F^{-4}*\sin^2*\pi^{-4} + 1/432*\ln(4)*\ln(6)*F^{-4} \\
& * \sin^4*\pi^{-4} - 1/576*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*\pi^{-4} - 1/192*\ln(4)*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin^3*\cos*\pi^{-4} + 1/3072*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} + 169/20736*\ln(4)*\ln(8)*F^{-4} \\
& * \sin^2*\pi^{-4} - 113/5184*\ln(4)*\ln(8)*F^{-4}*\sin^4*\pi^{-4} + 1/81*\ln(4)*\ln(8)*F^{-4} \\
& * \sin^6*\pi^{-4} + 61/6912*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*\pi^{-4} + 68/9*\ln(6)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin*\cos*L8r*\pi^{-2} + 40/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*L7r*\pi^{-2} \\
& - 2 + 8*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*L6r*\pi^{-2} - 14/9*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin*\cos*L5r*\pi^{-2} - 22/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*L4r*\pi^{-2} + \\
& 11/6*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*L3r*\pi^{-2} + 4/3*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin*\cos*L2r*\pi^{-2} + 16/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*L1r*\pi^{-2} - \\
& 1/108*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos*\pi^{-4} - 64/9*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin^3*\cos*L8r*\pi^{-2} - 64/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos*L7r*\pi^{-2} \\
& + 155/41472*\ln(6)*F^{-4}*\sin^2*\pi^{-4} + 64/27*\ln(6)*F^{-4}*\sin^2*L8r*\pi^{-2} \\
& + 64/9*\ln(6)*F^{-4}*\sin^2*L7r*\pi^{-2} - 1/324*\ln(6)*F^{-4}*\sin^4*\pi^{-4} - \\
& 64/27*\ln(6)*F^{-4}*\sin^4*L8r*\pi^{-2} - 64/9*\ln(6)*F^{-4}*\sin^4*L7r*\pi^{-2} - \\
& 1/768*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*\pi^{-4} + 1/288*\ln(6)^2*F^{-4}*\sqrt{3}^{-1} \\
& * \sin^3*\cos*\pi^{-4} - 1/288*\ln(6)^2*F^{-4}*\sin^2*\pi^{-4} + 1/288*\ln(6)^2*F^{-4} \\
& * \sin^4*\pi^{-4} + 1/576*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*\pi^{-4} + \\
& 1/192*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos*\pi^{-4} + 1/3072*\ln(6)*\ln(8)*F^{-4} \\
& * \pi^{-4} + 169/20736*\ln(6)*\ln(8)*F^{-4}*\sin^2*\pi^{-4} - 113/5184*\ln(6)*\ln(8)*F^{-4} \\
& * \sin^4*\pi^{-4} + 1/81*\ln(6)*\ln(8)*F^{-4}*\sin^6*\pi^{-4} - 5/5184*\ln(8)*F^{-4} \\
& * \pi^{-4} - 4/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*L8r*\pi^{-2} - 4/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin*\cos*L7r*\pi^{-2} + 2/3*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin*\cos*L6r*\pi^{-2} - 13/18*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*L4r*\pi^{-2} + 2/9*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin*\cos*L3r*\pi^{-2} + 2/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*L2r*\pi^{-2} + 8/9*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin*\cos*L1r*\pi^{-2} + 1/216*\ln(8)*F^{-4} \\
& * \sin^2*\pi^{-4} - 100/27*\ln(8)*F^{-4}*\sin^2*L8r*\pi^{-2} - 56/3*\ln(8)*F^{-4} \\
& * \sin^2*L7r*\pi^{-2} + 8/9*\ln(8)*F^{-4}*\sin^2*L6r*\pi^{-2} - 34/27*\ln(8)*F^{-4} \\
& * \sin^2*L5r*\pi^{-2} - 1/9*\ln(8)*F^{-4}*\sin^2*L4r*\pi^{-2} - 5/9*\ln(8)*F^{-4} \\
& * \sin^2*L3r*\pi^{-2} - 5/9*\ln(8)*F^{-4}*\sin^2*L2r*\pi^{-2} - 20/9*\ln(8)*F^{-4} \\
& * \sin^2*L1r*\pi^{-2} - 1/324*\ln(8)*F^{-4}*\sin^4*\pi^{-4} + 208/9*\ln(8)*F^{-4} \\
& * \sin^4*L8r*\pi^{-2} + 704/9*\ln(8)*F^{-4}*\sin^4*L7r*\pi^{-2} - 32/9*\ln(8)*F^{-4} \\
& * \sin^4*L6r*\pi^{-2} + 40/27*\ln(8)*F^{-4}*\sin^4*L5r*\pi^{-2} + 8/3*\ln(8)*F^{-4} \\
& * \sin^4*L4r*\pi^{-2} - 512/27*\ln(8)*F^{-4}*\sin^6*L8r*\pi^{-2} - 512/9*\ln(8)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^6*L7r*pi^{-2} - 1/1728*\ln(8)^2*F^{-4}*pi^{-4} + 7/1296*\ln(8)^2*F^{-4}*sin x^2*pi^{-4} - 91/5184*\ln(8)^2*F^{-4}*sin x^4*pi^{-4} + 11/864*\ln(8)^2*F^{-4}*sin x^6*pi^{-4}) \\
& + mpp2^2*mkp2^2 * (- 173/10368/(mass(3))*\ln(3)^2*F^{-4}*sin x^2*pi^{-4} + 5/1944/(mass(3))*\ln(3)^2*F^{-4}*sin x^4*pi^{-4} + 524288/27/(mass(3) - mass(8))*F^{-4}*sin x^2*L8r^2 + 1048576/9/(mass(3) - mass(8))*F^{-4}*sin x^2*L7r*L8r + 524288/3/(mass(3) - mass(8))*F^{-4}*sin x^2*L7r^2 - 524288/27/(mass(3) - mass(8))*F^{-4}*sin x^4*L8r^2 - 1048576/9/(mass(3) - mass(8))*F^{-4}*sin x^4*L7r*L8r - 524288/3/(mass(3) - mass(8))*F^{-4}*sin x^4*L7r^2 - 256/27/(mass(3) - mass(8))*\ln(1)*F^{-4}*sin x^2*L8r*pi^{-2} - 256/9/(mass(3) - mass(8))*\ln(1)*F^{-4}*sin x^2*L7r*pi^{-2} + 256/27/(mass(3) - mass(8))*\ln(1)*F^{-4}*sin x^4*L8r*pi^{-2} + 256/9/(mass(3) - mass(8))*\ln(1)*F^{-4}*sin x^4*L7r*pi^{-2} - 1/324/(mass(3) - mass(8))*\ln(1)*\ln(3)*F^{-4}*sin x^2*pi^{-4} + 5/324/(mass(3) - mass(8))*\ln(1)*\ln(3)*F^{-4}*sin x^4*pi^{-4} - 1/81/(mass(3) - mass(8))*\ln(1)*\ln(3)*F^{-4}*sin x^6*pi^{-4} - 1/72/(mass(3) - mass(8))*\ln(1)*\ln(4)*F^{-4}*sqrt3^{-1}*sin x*cos x*pi^{-4} + 1/36/(mass(3) - mass(8))*\ln(1)*\ln(4)*F^{-4}*sqrt3^{-1}*sin x^3*cos x*pi^{-4} + 1/108/(mass(3) - mass(8))*\ln(1)*\ln(4)*F^{-4}*sin x^2*pi^{-4} - 1/108/(mass(3) - mass(8))*\ln(1)*\ln(4)*F^{-4}*sin x^4*pi^{-4} + 1/72/(mass(3) - mass(8))*\ln(1)*\ln(6)*F^{-4}*sqrt3^{-1}*sin x*cos x*pi^{-4} - 1/36/(mass(3) - mass(8))*\ln(1)*\ln(6)*F^{-4}*sqrt3^{-1}*sin x^3*cos x*pi^{-4} + 1/108/(mass(3) - mass(8))*\ln(1)*\ln(6)*F^{-4}*sin x^2*pi^{-4} - 1/108/(mass(3) - mass(8))*\ln(1)*\ln(6)*F^{-4}*sin x^4*pi^{-4} + 5/324/(mass(3) - mass(8))*\ln(1)*\ln(8)*F^{-4}*sin x^2*pi^{-4} - 1/36/(mass(3) - mass(8))*\ln(1)*\ln(8)*F^{-4}*sin x^4*pi^{-4} + 1/81/(mass(3) - mass(8))*\ln(1)*\ln(8)*F^{-4}*sin x^6*pi^{-4} - 512/27/(mass(3) - mass(8))*\ln(3)*F^{-4}*sin x^2*L8r*pi^{-2} - 512/9/(mass(3) - mass(8))*\ln(3)*F^{-4}*sin x^2*L7r*pi^{-2} + 512/81/(mass(3) - mass(8))*\ln(3)*F^{-4}*sin x^4*L8r*pi^{-2} + 512/27/(mass(3) - mass(8))*\ln(3)*F^{-4}*sin x^4*L7r*pi^{-2} + 1024/81/(mass(3) - mass(8))*\ln(3)*F^{-4}*sin x^6*L8r*pi^{-2} + 1024/27/(mass(3) - mass(8))*\ln(3)*F^{-4}*sin x^6*L7r*pi^{-2} + 7/1944/(mass(3) - mass(8))*\ln(3)^2*F^{-4}*sin x^2*pi^{-4} + 17/1944/(mass(3) - mass(8))*\ln(3)^2*F^{-4}*sin x^4*pi^{-4} - 4/243/(mass(3) - mass(8))*\ln(3)^2*F^{-4}*sin x^6*pi^{-4} + 1/243/(mass(3) - mass(8))*\ln(3)^2*F^{-4}*sin x^8*pi^{-4} - 19/5184/(mass(3) - mass(8))*\ln(3)*\ln(4)*F^{-4}*sqrt3^{-1}*sin x*cos x*pi^{-4} + 19/648/(mass(3) - mass(8))*\ln(3)*\ln(4)*F^{-4}*sqrt3^{-1}*sin x^3*cos x*pi^{-4} - 1/54/(mass(3) - mass(8))*\ln(3)*\ln(4)*F^{-4}*sqrt3^{-1}*sin x^5*cos x*pi^{-4} + 13/648/(mass(3) - mass(8))*\ln(3)*\ln(4)*F^{-4}*sin x^2*pi^{-4} - 1/72/(mass(3) - mass(8))*\ln(3)*\ln(4)*F^{-4}*sin x^4*pi^{-4} - 1/162/(mass(3) - mass(8))*\ln(3)*\ln(4)*F^{-4}*sin x^6*pi^{-4} + 19/5184/(mass(3) - mass(8))*\ln(3)*\ln(6)*F^{-4}*sqrt3^{-1}*sin x*cos x*pi^{-4} - 19/648/(mass(3) - mass(8))*\ln(3)*\ln(6)*F^{-4}*sqrt3^{-1}*sin x^3*cos x*pi^{-4} + 1/54/(mass(3) - mass(8))*\ln(3)*\ln(6)*F^{-4}*sqrt3^{-1}*sin x^5*cos x*pi^{-4} + 13/648/(mass(3) - mass(8))*\ln(3)*\ln(6)*F^{-4}*sin x^2*pi^{-4} - 1/72/(mass(3) - mass(8))*\ln(3)*\ln(6)*F^{-4}*sin x^4*pi^{-4} - 1/162/(mass(3) - mass(8))*\ln(3)*\ln(6)*F^{-4}*sin x^6*pi^{-4} + 17/972/(mass(3) - mass(8))*\ln(3)*\ln(8)*F^{-4}*sin x^2*pi^{-4} - 25/972/(mass(3) - mass(8))*\ln(3)*\ln(8)*F^{-4}*sin x^4*pi^{-4} + 4/243/(mass(3) - mass(8))*\ln(3)*\ln(8)*F^{-4}*sin x^6*pi^{-4} - 2/243/(mass(3) - mass(8))*\ln(3)*\ln(8)*F^{-4}*sin x^8*pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4 + 16/9/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt{3}^{-1}*sinx*cosx*L8r*pi^{-2} \\
& + 16/3/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt{3}^{-1}*sinx*cosx*L7r*pi^{-2} - \\
& 128/9/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt{3}^{-1}*sinx^3*cosx*L8r*pi^{-2} - \\
& 128/3/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt{3}^{-1}*sinx^3*cosx*L7r*pi^{-2} - \\
& 896/27/(mass(3) - mass(8))*ln(4)*F^{-4}*sinx^2*L8r*pi^{-2} - 896/9/(mass(3) - \\
& mass(8))*ln(4)*F^{-4}*sinx^2*L7r*pi^{-2} + 896/27/(mass(3) - mass(8))*ln(4)*F^{-4} \\
& *sinx^4*L8r*pi^{-2} + 896/9/(mass(3) - mass(8))*ln(4)*F^{-4}*sinx^4*L7r*pi^{-2} \\
& + 1/192/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sqrt{3}^{-1}*sinx*cosx*pi^{-4} \\
& + 1/6912/(mass(3) - mass(8))*ln(4)^2*F^{-4}*pi^{-4} + 1/54/(mass(3) - \\
& mass(8))*ln(4)^2*F^{-4}*sinx^2*pi^{-4} - 1/54/(mass(3) - mass(8))*ln(4)^2*F^{-4} \\
& *sinx^4*pi^{-4} - 1/3456/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*sinx^2*pi^{-4} + \\
& 1/54/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*sinx^2*pi^{-4} - 1/54/(mass(3) - \\
& mass(8))*ln(4)*ln(6)*F^{-4}*sinx^4*pi^{-4} + 7/5184/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4} \\
& *sqrt{3}^{-1}*sinx*cosx*pi^{-4} - 7/648/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4} \\
& *sqrt{3}^{-1}*sinx^3*cosx*pi^{-4} + 1/54/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4} \\
& *sqrt{3}^{-1}*sinx^5*cosx*pi^{-4} + 5/216/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4} \\
& *sinx^2*pi^{-4} - 19/648/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sinx^4*pi^{-4} + \\
& 1/162/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sinx^6*pi^{-4} - 16/9/(mass(3) \\
& - mass(8))*ln(6)*F^{-4}*sqrt{3}^{-1}*sinx*cosx*L8r*pi^{-2} - 16/3/(mass(3) - \\
& mass(8))*ln(6)*F^{-4}*sqrt{3}^{-1}*sinx*cosx*L7r*pi^{-2} + 128/9/(mass(3) - \\
& mass(8))*ln(6)*F^{-4}*sqrt{3}^{-1}*sinx^3*cosx*L8r*pi^{-2} + 128/3/(mass(3) - \\
& mass(8))*ln(6)*F^{-4}*sqrt{3}^{-1}*sinx^3*cosx*L7r*pi^{-2} - 896/27/(mass(3) - \\
& mass(8))*ln(6)*F^{-4}*sinx^2*L8r*pi^{-2} - 896/9/(mass(3) - mass(8))*ln(6)*F^{-4} \\
& *sinx^2*L7r*pi^{-2} + 896/27/(mass(3) - mass(8))*ln(6)*F^{-4}*sinx^4*L8r*pi^{-2} \\
& + 896/9/(mass(3) - mass(8))*ln(6)*F^{-4}*sinx^4*L7r*pi^{-2} - 1/192/(mass(3) \\
& - mass(8))*ln(6)^2*F^{-4}*sqrt{3}^{-1}*sinx*cosx*pi^{-4} + 1/6912/(mass(3) - \\
& mass(8))*ln(6)^2*F^{-4}*pi^{-4} + 1/54/(mass(3) - mass(8))*ln(6)^2*F^{-4} \\
& *sinx^2*pi^{-4} - 1/54/(mass(3) - mass(8))*ln(6)^2*F^{-4}*sinx^4*pi^{-4} - \\
& 7/5184/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sqrt{3}^{-1}*sinx*cosx*pi^{-4} + \\
& 7/648/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sqrt{3}^{-1}*sinx^3*cosx*pi^{-4} - \\
& 1/54/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sqrt{3}^{-1}*sinx^5*cosx*pi^{-4} + \\
& 5/216/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sinx^2*pi^{-4} - 19/648/(mass(3) - \\
& mass(8))*ln(6)*ln(8)*F^{-4}*sinx^4*pi^{-4} + 1/162/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4} \\
& *sinx^6*pi^{-4} - 2560/81/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^2*L8r*pi^{-2} - \\
& 2560/27/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^2*L7r*pi^{-2} + 3584/81/(mass(3) \\
& - mass(8))*ln(8)*F^{-4}*sinx^4*L8r*pi^{-2} + 3584/27/(mass(3) - mass(8))*ln(8)*F^{-4} \\
& *sinx^4*L7r*pi^{-2} - 1024/81/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^6*L8r*pi^{-2} \\
& - 1024/27/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^6*L7r*pi^{-2} + 23/1944/(mass(3) \\
& - mass(8))*ln(8)^2*F^{-4}*sinx^2*pi^{-4} - 31/1944/(mass(3) - mass(8))*ln(8)^2*F^{-4} \\
& *sinx^4*pi^{-4} + 1/243/(mass(3) - mass(8))*ln(8)^2*F^{-4}*sinx^8*pi^{-4} - \\
& 83/6144/(mass(4))*ln(4)^2*F^{-4}*sqrt{3}^{-1}*sinx*cosx*pi^{-4} - 1/6144/(mass(4))*ln(4)^2*F^{-4} \\
& *pi^{-4} - 5/6144/(mass(4))*ln(4)^2*F^{-4}*sinx^2*pi^{-4} - 83/6144/(mass(5))*ln(4)^2*F^{-4} \\
& *sqrt{3}^{-1}*sinx*cosx*pi^{-4} - 1/6144/(mass(5))*ln(4)^2*F^{-4}*pi^{-4} - 5/6144/(mass(5))*ln(4)^2*F^{-4} \\
& *sinx^2*pi^{-4} + 83/6144/(mass(6))*ln(6)^2*F^{-4}*sqrt{3}^{-1}*sinx*cosx*pi^{-4} \\
& - 1/6144/(mass(6))*ln(6)^2*F^{-4}*pi^{-4} - 5/6144/(mass(6))*ln(6)^2*F^{-4} \\
& *sinx^2*pi^{-4} + 83/6144/(mass(7))*ln(6)^2*F^{-4}*sqrt{3}^{-1}*sinx*cosx*pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& - 1/6144/(\text{mass}(7))^{\ln(6)^2 F^{-4} \pi^{-4}} - 5/6144/(\text{mass}(7))^{\ln(6)^2 F^{-4} \pi^{-4}} \\
& - 4^{\sin x^2 \pi^{-4}} + 7/20736/(\text{mass}(8))^{\ln(8)^2 F^{-4} \pi^{-4}} + 139/62208/(\text{mass}(8))^{\ln(8)^2 F^{-4} \pi^{-4}} \\
& - 4^{\sin x^2 \pi^{-4}} - 5/1944/(\text{mass}(8))^{\ln(8)^2 F^{-4} \sin x^4 \pi^{-4}} \\
& + \text{mpp}2^3 * (- 3217/442368 F^{-4} \pi^{-4} - 527/331776 F^{-4} \pi^{-2} + 1/3 F^{-4} L8r^* \pi^{-2} \\
& - 4/9 F^{-4} L7r^* \pi^{-2} + 5/9 F^{-4} L6r^* \pi^{-2} - 13/54 F^{-4} L5r^* \pi^{-2} - 128 F^{-4} L5r^* L8r \\
& - 128 F^{-4} L5r^* L6r + 64 F^{-4} L5r^2 - 5/18 F^{-4} L4r^* \pi^{-2} - 128 F^{-4} L4r^* L8r \\
& - 128 F^{-4} L4r^* L6r + 128 F^{-4} L4r^* L5r + 64 F^{-4} L4r^2 + 7/54 F^{-4} L3r^* \pi^{-2} + 37/72 F^{-4} L2r^* \pi^{-2} \\
& + 1/4 F^{-4} L1r^* \pi^{-2} + 32 F^{-4} \text{CC}32 + 32 F^{-4} \text{CC}31 + 48 F^{-4} \text{CC}21 + 80 F^{-4} \text{CC}20 \\
& + 48 F^{-4} \text{CC}19 - 16 F^{-4} \text{CC}17 - 48 F^{-4} \text{CC}16 - 16 F^{-4} \text{CC}15 - 16 F^{-4} \text{CC}14 \\
& - 32 F^{-4} \text{CC}13 - 32 F^{-4} \text{CC}12 + 6793/995328 F^{-4} \sin x^2 \pi^{-4} + 1163/746496 F^{-4} \sin x^2 \pi^{-2} \\
& - 4/9 F^{-4} \sin x^2 L8r^* \pi^{-2} + 40/27 F^{-4} \sin x^2 L7r^* \pi^{-2} - 32/27 F^{-4} \sin x^2 L6r^* \pi^{-2} \\
& + 38/81 F^{-4} \sin x^2 L5r^* \pi^{-2} + 512/3 F^{-4} \sin x^2 L5r^* L8r + 1024/9 F^{-4} \sin x^2 L5r^* L7r \\
& + 1024/9 F^{-4} \sin x^2 L5r^* L6r - 1792/27 F^{-4} \sin x^2 L5r^2 + 16/27 F^{-4} \sin x^2 L4r^* \pi^{-2} \\
& - 1024/3 F^{-4} \sin x^2 L4r^* L7r + 512/3 F^{-4} \sin x^2 L4r^* L6r - 1024/9 F^{-4} \sin x^2 L4r^* L5r \\
& - 256/3 F^{-4} \sin x^2 L4r^2 - 19/108 F^{-4} \sin x^2 L3r^* \pi^{-2} - 35/54 F^{-4} \sin x^2 L2r^* \pi^{-2} \\
& - 7/27 F^{-4} \sin x^2 L1r^* \pi^{-2} - 128/3 F^{-4} \sin x^2 \text{CC}31 - 64 F^{-4} \sin x^2 \text{CC}21 - 64 F^{-4} \sin x^2 \text{CC}20 \\
& - 64 F^{-4} \sin x^2 \text{CC}19 + 128/9 F^{-4} \sin x^2 \text{CC}18 + 64/3 F^{-4} \sin x^2 \text{CC}17 + 64 F^{-4} \sin x^2 \text{CC}16 \\
& + 128/9 F^{-4} \sin x^2 \text{CC}15 + 64/3 F^{-4} \sin x^2 \text{CC}14 + 256/9 F^{-4} \sin x^2 \text{CC}13 + 896/27 F^{-4} \sin x^2 \text{CC}12 \\
& - 13/2304 \ln(1) F^{-4} \pi^{-4} + \ln(1) F^{-4} L8r^* \pi^{-2} - 1/2 \ln(1) F^{-4} L5r^* \pi^{-2} \\
& + 1/2 \ln(1) F^{-4} L4r^* \pi^{-2} - \ln(1) F^{-4} L3r^* \pi^{-2} - 1/2 \ln(1) F^{-4} L2r^* \pi^{-2} - 2 \ln(1) F^{-4} L1r^* \pi^{-2} \\
& + 157/20736 \ln(1) F^{-4} \sin x^2 \pi^{-4} - 8/27 \ln(1) F^{-4} \sin x^2 L8r^* \pi^{-2} + 40/9 \ln(1) F^{-4} \sin x^2 L7r^* \pi^{-2} \\
& + 8/9 \ln(1) F^{-4} \sin x^2 L5r^* \pi^{-2} - 2/3 \ln(1) F^{-4} \sin x^2 L4r^* \pi^{-2} + 7/6 \ln(1) F^{-4} \sin x^2 L3r^* \pi^{-2} \\
& + 2/3 \ln(1) F^{-4} \sin x^2 L2r^* \pi^{-2} + 8/3 \ln(1) F^{-4} \sin x^2 L1r^* \pi^{-2} - 1/324 \ln(1) F^{-4} \sin x^4 \pi^{-4} \\
& - 64/27 \ln(1) F^{-4} \sin x^4 L8r^* \pi^{-2} - 64/9 \ln(1) F^{-4} \sin x^4 L7r^* \pi^{-2} + 1/256 \ln(1)^2 F^{-4} \pi^{-4} \\
& - 17/2304 \ln(1)^2 F^{-4} \sin x^2 \pi^{-4} + 1/288 \ln(1)^2 F^{-4} \sin x^4 \pi^{-4} - 3/512 \ln(1) \ln(3) F^{-4} \pi^{-4} \\
& + 5/2592 \ln(1) \ln(3) F^{-4} \sin x^2 \pi^{-4} - 5/1728 \ln(1) \ln(3) F^{-4} \sin x^4 \pi^{-4} + 1/162 \ln(1) \ln(3) F^{-4} \sin x^6 \pi^{-4} \\
& + 1/4608 \ln(1) \ln(4) F^{-4} \sqrt{3}^{-1} \sin x^* \cos x^* \pi^{-4} + 1/288 \ln(1) \ln(4) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x^* \pi^{-4} \\
& + 1/864 \ln(1) \ln(4) F^{-4} \sin x^2 \pi^{-4} - 1/864 \ln(1) \ln(4) F^{-4} \sin x^4 \pi^{-4} - 1/4608 \ln(1) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x^* \cos x^* \pi^{-4} \\
& - 1/288 \ln(1) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x^* \pi^{-4} + 1/864 \ln(1) \ln(6) F^{-4} \sin x^2 \pi^{-4} \\
& - 1/864 \ln(1) \ln(6) F^{-4} \sin x^4 \pi^{-4} + 1/1536 \ln(1) \ln(8) F^{-4} \pi^{-4} - 25/10368 \ln(1) \ln(8) F^{-4} \sin x^2 \pi^{-4} \\
& + 31/5184 \ln(1) \ln(8) F^{-4} \sin x^4 \pi^{-4} - 1/162 \ln(1) \ln(8) F^{-4} \sin x^6 \pi^{-4} + 7/2304 \ln(3) F^{-4} \pi^{-4} \\
& - 5/2 \ln(3) F^{-4} L8r^* \pi^{-2} - 4 \ln(3) F^{-4} L6r^* \pi^{-2} + 5/4 \ln(3) F^{-4} L5r^* \pi^{-2} \\
& + 7/4 \ln(3) F^{-4} L4r^* \pi^{-2} - 3/4 \ln(3) F^{-4} L3r^* \pi^{-2} - 3/2 \ln(3) F^{-4} L2r^* \pi^{-2} \\
& - 3/2 \ln(3) F^{-4} L1r^* \pi^{-2} - 17/3888 \ln(3) F^{-4} \sin x^2 \pi^{-4} - 112/81 \ln(3) F^{-4} \sin x^2 L8r^* \pi^{-2} -
\end{aligned}$$

$$\begin{aligned}
& 28/3*\ln(3)*F^{-4}*\sin x^2*L7r*\pi^{-2} + 8/3*\ln(3)*F^{-4}*\sin x^2*L6r*\pi^{-2} - \\
& 70/81*\ln(3)*F^{-4}*\sin x^2*L5r*\pi^{-2} - 19/27*\ln(3)*F^{-4}*\sin x^2*L4r*\pi^{-2} \\
& + 7/9*\ln(3)*F^{-4}*\sin x^2*L3r*\pi^{-2} + 14/9*\ln(3)*F^{-4}*\sin x^2*L2r*\pi^{-2} \\
& + 14/9*\ln(3)*F^{-4}*\sin x^2*L1r*\pi^{-2} + 1/972*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} + \\
& 304/27*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} + 832/27*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} \\
& + 32/27*\ln(3)*F^{-4}*\sin x^4*L6r*\pi^{-2} - 40/81*\ln(3)*F^{-4}*\sin x^4*L5r*\pi^{-2} \\
& - 8/9*\ln(3)*F^{-4}*\sin x^4*L4r*\pi^{-2} - 512/81*\ln(3)*F^{-4}*\sin x^6*L8r*\pi^{-2} \\
& - 512/27*\ln(3)*F^{-4}*\sin x^6*L7r*\pi^{-2} + 3/2048*\ln(3)^2*F^{-4}*\pi^{-4} \\
& + 539/248832*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 379/31104*\ln(3)^2*F^{-4} \\
& * \sin x^4*\pi^{-4} + 193/15552*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} - 1/243*\ln(3)^2*F^{-4} \\
& * \sin x^8*\pi^{-4} + 13/6912*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 71/10368*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/324*\ln(3)*\ln(4)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 23/10368*\ln(3)*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} \\
& - 55/10368*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + 1/324*\ln(3)*\ln(4)*F^{-4} \\
& * \sin x^6*\pi^{-4} - 13/6912*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 71/10368*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/324*\ln(3)*\ln(6)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 23/10368*\ln(3)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} \\
& - 55/10368*\ln(3)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + 1/324*\ln(3)*\ln(6)*F^{-4} \\
& * \sin x^6*\pi^{-4} - 1/9216*\ln(3)*\ln(8)*F^{-4}*\pi^{-4} - 259/124416*\ln(3)*\ln(8)*F^{-4} \\
& * \sin x^2*\pi^{-4} + 53/5184*\ln(3)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 43/2592*\ln(3)*\ln(8)*F^{-4} \\
& * \sin x^6*\pi^{-4} + 2/243*\ln(3)*\ln(8)*F^{-4}*\sin x^8*\pi^{-4} + 5/41472*\ln(4)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 16/27*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} \\
& + 16/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - 1/648*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x^3*\cos x*\pi^{-4} - 32/27*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} \\
& - 32/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - 1/648*\ln(4)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 32/27*\ln(4)*F^{-4}*\sin x^2*L8r*\pi^{-2} - 32/9*\ln(4)*F^{-4} \\
& * \sin x^2*L7r*\pi^{-2} + 1/648*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + 32/27*\ln(4)*F^{-4} \\
& * \sin x^4*L8r*\pi^{-2} + 32/9*\ln(4)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 1/3456*\ln(4)^2*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/1728*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& + 1/1728*\ln(4)^2*F^{-4}*\sin x^2*\pi^{-4} - 1/1728*\ln(4)^2*F^{-4}*\sin x^4*\pi^{-4} - \\
& 7/5184*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 29/3456*\ln(4)*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/324*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} \\
& - 7/10368*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 13/3456*\ln(4)*\ln(8)*F^{-4} \\
& * \sin x^4*\pi^{-4} - 1/324*\ln(4)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 5/41472*\ln(6)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 16/27*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} \\
& - 16/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 1/648*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x^3*\cos x*\pi^{-4} + 32/27*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} \\
& + 32/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - 1/648*\ln(6)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 32/27*\ln(6)*F^{-4}*\sin x^2*L8r*\pi^{-2} - 32/9*\ln(6)*F^{-4} \\
& * \sin x^2*L7r*\pi^{-2} + 1/648*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + 32/27*\ln(6)*F^{-4} \\
& * \sin x^4*L8r*\pi^{-2} + 32/9*\ln(6)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 1/3456*\ln(6)^2*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/1728*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& + 1/1728*\ln(6)^2*F^{-4}*\sin x^2*\pi^{-4} - 1/1728*\ln(6)^2*F^{-4}*\sin x^4*\pi^{-4} \\
& + 7/5184*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 29/3456*\ln(6)*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/324*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} \\
& - 7/10368*\ln(6)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 13/3456*\ln(6)*\ln(8)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^4 \sin^4 \pi^4 - 1/324 \ln(6) \ln(8) F^{-4} \sin^6 \pi^4 + 1/5184 \ln(8) F^{-4} \pi^4 + 1/18 \ln(8) F^{-4} L_{8r} \pi^2 - 1/36 \ln(8) F^{-4} L_{5r} \pi^2 + \\
& 1/36 \ln(8) F^{-4} L_{4r} \pi^2 - 1/36 \ln(8) F^{-4} L_{3r} \pi^2 - 1/36 \ln(8) F^{-4} L_{2r} \pi^2 - 1/9 \ln(8) F^{-4} L_{1r} \pi^2 + 1/3888 \ln(8) F^{-4} \sin^2 \pi^4 + \\
& 328/81 \ln(8) F^{-4} \sin^2 L_{8r} \pi^2 + 284/27 \ln(8) F^{-4} \sin^2 L_{7r} \pi^2 + 32/27 \ln(8) F^{-4} \sin^2 L_{6r} \pi^2 - 22/81 \ln(8) F^{-4} \sin^2 L_{5r} \pi^2 - \\
& 2 - \ln(8) F^{-4} \sin^2 L_{4r} \pi^2 + 1/9 \ln(8) F^{-4} \sin^2 L_{3r} \pi^2 + 1/9 \ln(8) F^{-4} \sin^2 L_{2r} \pi^2 + 4/9 \ln(8) F^{-4} \sin^2 L_{1r} \pi^2 - \\
& 1/972 \ln(8) F^{-4} \sin^4 \pi^4 - 304/27 \ln(8) F^{-4} \sin^4 L_{8r} \pi^2 - 832/27 \ln(8) F^{-4} \sin^4 L_{7r} \pi^2 - 32/27 \ln(8) F^{-4} \sin^4 L_{6r} \pi^2 - \\
& + 40/81 \ln(8) F^{-4} \sin^4 L_{5r} \pi^2 + 8/9 \ln(8) F^{-4} \sin^4 L_{4r} \pi^2 + 512/81 \ln(8) F^{-4} \sin^6 L_{8r} \pi^2 + 512/27 \ln(8) F^{-4} \sin^6 L_{7r} \pi^2 - \\
& 2 + 5/55296 \ln(8)^2 F^{-4} \pi^4 - 5/3072 \ln(8)^2 F^{-4} \sin^2 \pi^4 + 61/31104 \ln(8)^2 F^{-4} \sin^4 \pi^4 + 65/15552 \ln(8)^2 F^{-4} \sin^6 \pi^4 - \\
& 1/243 \ln(8)^2 F^{-4} \sin^8 \pi^4) \\
& + \text{mpp}2^3 \text{mkp}2 * (- 17/9216 / (\text{mass}(1)) \ln(1)^2 F^{-4} \pi^4 + 1/768 / (\text{mass}(1)) \ln(1)^2 F^{-4} \sin^2 \pi^4 - \\
& 1/9216 / (\text{mass}(2)) \ln(1)^2 F^{-4} \pi^4 - 1/768 / (\text{mass}(2)) \ln(1)^2 F^{-4} \sin^2 \pi^4 + 53/62208 / (\text{mass}(3)) \ln(3)^2 F^{-4} \sin^2 \pi^4 + 25/11664 / (\text{mass}(3)) \ln(3)^2 F^{-4} \sin^4 \pi^4 - \\
& 1048576/81 / (\text{mass}(3) - \text{mass}(8)) F^{-4} \sin^2 L_{8r}^2 - 2097152/27 / (\text{mass}(3) - \text{mass}(8)) F^{-4} \sin^2 L_{7r} L_{8r} - 1048576/9 / (\text{mass}(3) - \text{mass}(8)) F^{-4} \sin^2 L_{7r}^2 + \\
& 1048576/81 / (\text{mass}(3) - \text{mass}(8)) F^{-4} \sin^4 L_{8r}^2 + 2097152/27 / (\text{mass}(3) - \text{mass}(8)) F^{-4} \sin^4 L_{7r} L_{8r} + 1048576/9 / (\text{mass}(3) - \text{mass}(8)) F^{-4} \sin^4 L_{7r}^2 + \\
& 512/27 / (\text{mass}(3) - \text{mass}(8)) \ln(1) F^{-4} \sin^2 L_{8r} \pi^2 + 512/9 / (\text{mass}(3) - \text{mass}(8)) \ln(1) F^{-4} \sin^2 L_{7r} \pi^2 - 512/27 / (\text{mass}(3) - \text{mass}(8)) \ln(1) F^{-4} \sin^4 L_{8r} \pi^2 - \\
& 512/9 / (\text{mass}(3) - \text{mass}(8)) \ln(1) F^{-4} \sin^4 L_{7r} \pi^2 - 1/108 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(3) F^{-4} \sin^2 \pi^4 + 1/324 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(3) F^{-4} \sin^4 \pi^4 + \\
& 1/162 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(3) F^{-4} \sin^6 \pi^4 - 1/288 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(4) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* \pi^4 - \\
& 1/54 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(4) F^{-4} \sin^2 \pi^4 + 1/54 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(4) F^{-4} \sin^4 \pi^4 + 1/288 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* \pi^4 - \\
& 1/54 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(6) F^{-4} \sin^4 \pi^4 - 5/324 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(8) F^{-4} \sin^2 \pi^4 + 7/324 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(8) F^{-4} \sin^4 \pi^4 - \\
& 1/162 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(8) F^{-4} \sin^6 \pi^4 + 512/27 / (\text{mass}(3) - \text{mass}(8)) \ln(3) F^{-4} \sin^2 L_{8r} \pi^2 + 512/9 / (\text{mass}(3) - \text{mass}(8)) \ln(3) F^{-4} \sin^2 L_{7r} \pi^2 - \\
& 5632/243 / (\text{mass}(3) - \text{mass}(8)) \ln(3) F^{-4} \sin^2 L_{8r} \pi^2 - 5632/81 / (\text{mass}(3) - \text{mass}(8)) \ln(3) F^{-4} \sin^2 L_{7r} \pi^2 + 1024/243 / (\text{mass}(3) - \text{mass}(8)) \ln(3) F^{-4} \sin^6 L_{8r} \pi^2 - \\
& 2 + 1024/81 / (\text{mass}(3) - \text{mass}(8)) \ln(3) F^{-4} \sin^6 L_{7r} \pi^2 - 19/2916 / (\text{mass}(3) - \text{mass}(8)) \ln(3)^2 F^{-4} \sin^2 \pi^4 + 19/2916 / (\text{mass}(3) - \text{mass}(8)) \ln(3)^2 F^{-4} \sin^4 \pi^4 + \\
& 2/729 / (\text{mass}(3) - \text{mass}(8)) \ln(3)^2 F^{-4} \sin^6 \pi^4 - 2/729 / (\text{mass}(3) - \text{mass}(8)) \ln(3)^2 F^{-4} \sin^8 \pi^4 - 41/7776 / (\text{mass}(3) - \text{mass}(8)) \ln(3) \ln(4) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* \pi^4 + \\
& 5/972 / (\text{mass}(3) - \text{mass}(8)) \ln(3) \ln(4) F^{-4} \sqrt{3}^{-1} \sin^3 \cos^* \pi^4 + 1/324 / (\text{mass}(3)
\end{aligned}$$

$$\begin{aligned}
& - \text{mass}(8) * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^5 * \cos x * \pi^{-4} - 1/72 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sin^2 * \pi^{-4} + 41/1944 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \\
& \sin^4 * \pi^{-4} - 7/972 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sin^6 * \pi^{-4} \\
& + 41/7776 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos x * \pi^{-4} \\
& - 5/972 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x * \pi^{-4} \\
& - 1/324 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^5 * \cos x * \pi^{-4} \\
& - 1/72 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sin^2 * \pi^{-4} + 41/1944 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sin^4 * \pi^{-4} - 7/972 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \\
& \sin^6 * \pi^{-4} - 17/1458 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \sin^2 * \pi^{-4} + \\
& 25/1458 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \sin^4 * \pi^{-4} - 8/729 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \sin^6 * \pi^{-4} + 4/729 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \\
& \sin^8 * \pi^{-4} + 176/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos x * L8r * \pi^{-2} \\
& - 256/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x * L8r * \pi^{-2} \\
& - 256/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x * L7r * \pi^{-2} \\
& + 1280/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sin^2 * L8r * \pi^{-2} + \\
& 1280/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sin^2 * L7r * \pi^{-2} - 1280/81 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(4) * F^{-4} * \sin^4 * L8r * \pi^{-2} - 1280/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \\
& \sin^4 * L7r * \pi^{-2} - 1/216 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos x * \pi^{-4} \\
& + 1/108 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x * \pi^{-4} - 1/324 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(4) * F^{-4} * \sin^2 * \pi^{-4} - 1/162 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(6) * F^{-4} * \\
& \sin^4 * \pi^{-4} - 25/7776 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos x * \\
& \pi^{-4} + 7/972 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x * \pi^{-4} - \\
& 1/324 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^5 * \cos x * \pi^{-4} - \\
& 13/1944 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \sin^2 * \pi^{-4} + 7/972 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \sin^6 * \pi^{-4} - 176/27 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos x * L8r * \pi^{-2} - 176/9 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos x * L7r * \pi^{-2} + 256/27 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x * L8r * \pi^{-2} + 256/9 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x * L7r * \pi^{-2} + 1280/81 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6) * F^{-4} * \sin^2 * L8r * \pi^{-2} + 1280/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \\
& \sin^2 * L7r * \pi^{-2} - 1280/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sin^4 * L8r * \pi^{-2} - \\
& 1280/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sin^4 * L7r * \pi^{-2} + 1/216 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos x * \pi^{-4} - 1/108 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x * \pi^{-4} - 1/324 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6) * F^{-4} * \sin^2 * \pi^{-4} + 1/324 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \\
& \sin^4 * \pi^{-4} + 25/7776 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos x * \\
& \pi^{-4} - 7/972 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x * \pi^{-4} \\
& + 1/324 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^5 * \cos x * \pi^{-4} - \\
& 13/1944 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin^2 * \pi^{-4} - 1/1944 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin^4 * \pi^{-4} + 7/972 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * \\
& F^{-4} * \sin^6 * \pi^{-4} + 3584/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^2 * L8r * \pi^{-2} \\
& + 3584/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} *
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2*L7r*pi^{-2} - 2560/243/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sin x^4*L8r*pi^{-2} - 2560/81/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sin x^4*L7r*pi^{-2} - 1024/243/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sin x^6*L8r*pi^{-2} - 1024/81/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sin x^6*L7r*pi^{-2} - 11/2916/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*\sin x^2*pi^{-4} - 5/2916/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*\sin x^4*pi^{-4} + 2/243/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*\sin x^6*pi^{-4} - 2/729/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*\sin x^8*pi^{-4} + 5/3072/(mass(4))*\ln(4)^2*F^{-4}*sqrt{3}^{-1}*\sin x*\cos x*pi^{-4} + 5/3072/(mass(5))*\ln(4)^2*F^{-4}*sqrt{3}^{-1}*\sin x*\cos x*pi^{-4} - 5/3072/(mass(6))*\ln(6)^2*F^{-4}*sqrt{3}^{-1}*\sin x*\cos x*pi^{-4} - 5/3072/(mass(7))*\ln(6)^2*F^{-4}*sqrt{3}^{-1}*\sin x*\cos x*pi^{-4} + 13/82944/(mass(8))*\ln(8)^2*F^{-4}*pi^{-4} + 377/373248/(mass(8))*\ln(8)^2*F^{-4}*\sin x^2*pi^{-4} - 25/11664/(mass(8))*\ln(8)^2*F^{-4}*\sin x^4*pi^{-4} \\
& + mpp2^4 * (- 127/36864/(mass(1))*\ln(1)^2*F^{-4}*pi^{-4} + 25/9216/(mass(1))*\ln(1)^2*F^{-4}*\sin x^2*pi^{-4} + 1/36864/(mass(2))*\ln(1)^2*F^{-4}*pi^{-4} + 1/9216/(mass(2))*\ln(1)^2*F^{-4}*\sin x^2*pi^{-4} - 229/36864/(mass(3))*\ln(3)^2*F^{-4}*pi^{-4} + 115/20736/(mass(3))*\ln(3)^2*F^{-4}*\sin x^2*pi^{-4} + 5/11664/(mass(3))*\ln(3)^2*F^{-4}*\sin x^4*pi^{-4} + 262144/81/(mass(3) - mass(8))*F^{-4}*\sin x^2*L8r^2 + 524288/27/(mass(3) - mass(8))*F^{-4}*\sin x^2*L7r*L8r + 262144/9/(mass(3) - mass(8))*F^{-4}*\sin x^2*L7r^2 - 262144/81/(mass(3) - mass(8))*F^{-4}*\sin x^4*L8r^2 - 524288/27/(mass(3) - mass(8))*F^{-4}*\sin x^4*L7r*L8r - 262144/9/(mass(3) - mass(8))*F^{-4}*\sin x^4*L7r^2 - 256/27/(mass(3) - mass(8))*\ln(1)*F^{-4}*\sin x^2*L8r*pi^{-2} - 256/9/(mass(3) - mass(8))*\ln(1)*F^{-4}*\sin x^2*L7r*pi^{-2} + 256/27/(mass(3) - mass(8))*\ln(1)*F^{-4}*\sin x^4*L8r*pi^{-2} + 256/9/(mass(3) - mass(8))*\ln(1)*F^{-4}*\sin x^4*L7r*pi^{-2} + 1/144/(mass(3) - mass(8))*\ln(1)^2*F^{-4}*\sin x^2*pi^{-4} - 1/144/(mass(3) - mass(8))*\ln(1)^2*F^{-4}*\sin x^4*pi^{-4} + 5/486/(mass(3) - mass(8))*\ln(1)*\ln(3)*F^{-4}*\sin x^2*pi^{-4} - 4/243/(mass(3) - mass(8))*\ln(1)*\ln(3)*F^{-4}*\sin x^4*pi^{-4} + 1/162/(mass(3) - mass(8))*\ln(1)*\ln(3)*F^{-4}*\sin x^6*pi^{-4} + 1/288/(mass(3) - mass(8))*\ln(1)*\ln(4)*F^{-4}*sqrt{3}^{-1}*\sin x*\cos x*pi^{-4} - 1/144/(mass(3) - mass(8))*\ln(1)*\ln(4)*F^{-4}*sqrt{3}^{-1}*\sin x^3*\cos x*pi^{-4} + 1/432/(mass(3) - mass(8))*\ln(1)*\ln(4)*F^{-4}*\sin x^2*pi^{-4} - 1/432/(mass(3) - mass(8))*\ln(1)*\ln(4)*F^{-4}*\sin x^4*pi^{-4} - 1/288/(mass(3) - mass(8))*\ln(1)*\ln(6)*F^{-4}*sqrt{3}^{-1}*\sin x*\cos x*pi^{-4} + 1/144/(mass(3) - mass(8))*\ln(1)*\ln(6)*F^{-4}*sqrt{3}^{-1}*\sin x^3*\cos x*pi^{-4} + 1/432/(mass(3) - mass(8))*\ln(1)*\ln(6)*F^{-4}*\sin x^2*pi^{-4} - 1/432/(mass(3) - mass(8))*\ln(1)*\ln(6)*F^{-4}*\sin x^4*pi^{-4} + 1/486/(mass(3) - mass(8))*\ln(1)*\ln(8)*F^{-4}*\sin x^2*pi^{-4} + 1/243/(mass(3) - mass(8))*\ln(1)*\ln(8)*F^{-4}*\sin x^4*pi^{-4} - 1/162/(mass(3) - mass(8))*\ln(1)*\ln(8)*F^{-4}*\sin x^6*pi^{-4} - 512/81/(mass(3) - mass(8))*\ln(3)*F^{-4}*\sin x^2*L8r*pi^{-2} - 512/27/(mass(3) - mass(8))*\ln(3)*F^{-4}*\sin x^2*L7r*pi^{-2} + 2560/243/(mass(3) - mass(8))*\ln(3)*F^{-4}*\sin x^4*L8r*pi^{-2} + 2560/81/(mass(3) - mass(8))*\ln(3)*F^{-4}*\sin x^4*L7r*pi^{-2} - 1024/243/(mass(3) - mass(8))*\ln(3)*F^{-4}*\sin x^6*L8r*pi^{-2} - 1024/81/(mass(3) - mass(8))*\ln(3)*F^{-4}*\sin x^6*L7r*pi^{-2} + 17/5832/(mass(3) - mass(8))*\ln(3)^2*F^{-4}*\sin x^2*pi^{-4} - 41/5832/(mass(3) - mass(8))*\ln(3)^2*F^{-4}*\sin x^4*pi^{-4} + 4/729/(mass(3) - mass(8))*\ln(3)^2*F^{-4}*\sin x^6*pi^{-4} - 1/729/(mass(3) - mass(8))*\ln(3)^2*F^{-4}*\sin x^8*pi^{-4} + 7/3888/(mass(3) - mass(8))*\ln(3)*\ln(4)*F^{-4}*sqrt{3}^{-1}*\sin x*\cos x*pi^{-4} - 13/1944/(mass(3) - mass(8))*\ln(3)*\ln(4)*F^{-4}*sqrt{3}^{-1}*\sin x^3*\cos x*pi^{-4} + 1/324/(mass(3) -
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^6 * L8r * \pi^{-2} + 1024/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin x^6 * L7r * \pi^{-} \\
& 2 + 1/5832 / (\text{mass}(3) - \text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin x^2 * \pi^{-4} + 7/5832 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin x^4 * \pi^{-4} - 1/729 / (\text{mass}(3) - \text{mass}(8)) * \ln(8)^2 * F^{-} \\
& 4^*\sin x^8 * \pi^{-4} - 11/331776 / (\text{mass}(8)) * \ln(8)^2 * F^{-4} * \pi^{-4} + 61/373248 / (\text{mass}(8)) * \ln(8)^2 * F^{-} \\
& 4^*\sin x^2 * \pi^{-4} - 5/11664 / (\text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin x^4 * \pi^{-4}) \\
& + \text{mud} * \text{mkp}2 * (+ 32/9 * \text{HH1b}(1,2,3,\text{plext}.\text{plext}) * F^{-4} * \sin x^2 - 32/9 * \text{HH1b}(1,2,3,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^4 + 8/3 * \text{HH1b}(1,2,8,\text{plext}.\text{plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 32/9 * \text{HH1b}(1,2,8,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^2 + 32/9 * \text{HH1b}(1,2,8,\text{plext}.\text{plext}) * F^{-4} * \sin x^4 - 4 * \text{HH1b}(1,5,6,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sqrt{3}^{-1} * \sin x * \cos x + 2/3 * \text{HH1b}(1,5,6,\text{plext}.\text{plext}) * F^{-4} + 32/9 * \text{HH1b}(2,1,3,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^2 - 32/9 * \text{HH1b}(2,1,3,\text{plext}.\text{plext}) * F^{-4} * \sin x^4 + 8/3 * \text{HH1b}(2,1,8,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sqrt{3}^{-1} * \sin x * \cos x - 32/9 * \text{HH1b}(2,1,8,\text{plext}.\text{plext}) * F^{-4} * \sin x^2 + \\
& 32/9 * \text{HH1b}(2,1,8,\text{plext}.\text{plext}) * F^{-4} * \sin x^4 - 4 * \text{HH1b}(2,4,7,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sqrt{3}^{-1} * \sin x * \cos x + 2/3 * \text{HH1b}(2,4,7,\text{plext}.\text{plext}) * F^{-4} + 4/9 * \text{HH1b}(3,4,5,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sqrt{3}^{-1} * \sin x * \cos x + 16/9 * \text{HH1b}(3,4,5,\text{plext}.\text{plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x \\
& - 13/9 * \text{HH1b}(3,4,5,\text{plext}.\text{plext}) * F^{-4} + 32/9 * \text{HH1b}(3,4,5,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^2 + 16/9 * \text{HH1b}(3,4,5,\text{plext}.\text{plext}) * F^{-4} * \sin x^4 - 100/9 * \text{HH1b}(3,6,7,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sqrt{3}^{-1} * \sin x * \cos x - 16/9 * \text{HH1b}(3,6,7,\text{plext}.\text{plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x \\
& + 13/9 * \text{HH1b}(3,6,7,\text{plext}.\text{plext}) * F^{-4} + 32/9 * \text{HH1b}(3,6,7,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^2 + 16/9 * \text{HH1b}(3,6,7,\text{plext}.\text{plext}) * F^{-4} * \sin x^4 - 16/3 * \text{HH1b}(4,2,7,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sqrt{3}^{-1} * \sin x * \cos x + 4/3 * \text{HH1b}(4,2,7,\text{plext}.\text{plext}) * F^{-4} + 16/9 * \text{HH1b}(4,5,8,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sqrt{3}^{-1} * \sin x * \cos x + 16/9 * \text{HH1b}(4,5,8,\text{plext}.\text{plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x \\
& - 1/9 * \text{HH1b}(4,5,8,\text{plext}.\text{plext}) * F^{-4} - 16/9 * \text{HH1b}(4,5,8,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^2 + 16/9 * \text{HH1b}(4,5,8,\text{plext}.\text{plext}) * F^{-4} * \sin x^4 - 16/3 * \text{HH1b}(5,1,6,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sqrt{3}^{-1} * \sin x * \cos x + 4/3 * \text{HH1b}(5,1,6,\text{plext}.\text{plext}) * F^{-4} + 16/9 * \text{HH1b}(5,4,8,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sqrt{3}^{-1} * \sin x * \cos x + 16/9 * \text{HH1b}(5,4,8,\text{plext}.\text{plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x \\
& - 1/9 * \text{HH1b}(5,4,8,\text{plext}.\text{plext}) * F^{-4} - 16/9 * \text{HH1b}(5,4,8,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^2 + 16/9 * \text{HH1b}(5,4,8,\text{plext}.\text{plext}) * F^{-4} * \sin x^4 + 8/9 * \text{HH1b}(6,7,8,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sqrt{3}^{-1} * \sin x * \cos x - 16/9 * \text{HH1b}(6,7,8,\text{plext}.\text{plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x \\
& + 1/9 * \text{HH1b}(6,7,8,\text{plext}.\text{plext}) * F^{-4} - 16/9 * \text{HH1b}(6,7,8,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^2 + 16/9 * \text{HH1b}(6,7,8,\text{plext}.\text{plext}) * F^{-4} * \sin x^4 + 8/9 * \text{HH1b}(7,6,8,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sqrt{3}^{-1} * \sin x * \cos x - 16/9 * \text{HH1b}(7,6,8,\text{plext}.\text{plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x \\
& + 1/9 * \text{HH1b}(7,6,8,\text{plext}.\text{plext}) * F^{-4} - 16/9 * \text{HH1b}(7,6,8,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^2 + 16/9 * \text{HH1b}(7,6,8,\text{plext}.\text{plext}) * F^{-4} * \sin x^4 - 16/9 * \text{Hb}(1,2,3,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^2 + 16/9 * \text{Hb}(1,2,3,\text{plext}.\text{plext}) * F^{-4} * \sin x^4 - 8/3 * \text{Hb}(1,2,8,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sqrt{3}^{-1} * \sin x * \cos x + 16/9 * \text{Hb}(1,2,8,\text{plext}.\text{plext}) * F^{-4} * \sin x^2 - 16/9 * \text{Hb}(1,2,8,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^4 + 4/3 * \text{Hb}(1,5,6,\text{plext}.\text{plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 2/3 * \text{Hb}(1,5,6,\text{plext}.\text{plext}) * F^{-} \\
& 4 + 4/3 * \text{Hb}(2,4,7,\text{plext}.\text{plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 2/3 * \text{Hb}(2,4,7,\text{plext}.\text{plext}) * F^{-} \\
& 4 + 4/9 * \text{Hb}(3,1,2,\text{plext}.\text{plext}) * F^{-4} * \sin x^2 - 4/9 * \text{Hb}(3,1,2,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^4 + 128/243 * \text{Hb}(3,3,3,\text{plext}.\text{plext}) * F^{-4} * \sin x^2 - 256/81 * \text{Hb}(3,3,3,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^4 + 1024/243 * \text{Hb}(3,3,3,\text{plext}.\text{plext}) * F^{-4} * \sin x^6 - 512/243 * \text{Hb}(3,3,3,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^8 - 64/81 * \text{Hb}(3,3,8,\text{plext}.\text{plext}) * F^{-4} * \sin x^2 + 64/9 * \text{Hb}(3,3,8,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^4 - 1024/81 * \text{Hb}(3,3,8,\text{plext}.\text{plext}) * F^{-4} * \sin x^6 + 512/81 * \text{Hb}(3,3,8,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^8 - 11/18 * \text{Hb}(3,4,5,\text{plext}.\text{plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x + 2/9 * \text{Hb}(3,4,5,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sqrt{3}^{-1} * \sin x^3 * \cos x + 3/4 * \text{Hb}(3,4,5,\text{plext}.\text{plext}) * F^{-4} - 73/27 * \text{Hb}(3,4,5,\text{plext}.\text{plext}) * F^{-} \\
& 4^*\sin x^2 - 2/27 * \text{Hb}(3,4,5,\text{plext}.\text{plext}) * F^{-4} * \sin x^4 + 97/18 * \text{Hb}(3,6,7,\text{plext}.\text{plext}) * F^{-}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}-1} \sin x \cos x - 2/9 \text{Hb}(3,6,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^3 x \cos x \\
& - 3/4 \text{Hb}(3,6,7, \text{plext.plext}) F^{-4} - 73/27 \text{Hb}(3,6,7, \text{plext.plext}) F^{-4} \sin^2 x \\
& - 2/27 \text{Hb}(3,6,7, \text{plext.plext}) F^{-4} \sin^4 x - 512/81 \text{Hb}(3,8,8, \text{plext.plext}) F^{-4} \sin^4 x \\
& + 1024/81 \text{Hb}(3,8,8, \text{plext.plext}) F^{-4} \sin^6 x - 512/81 \text{Hb}(3,8,8, \text{plext.plext}) F^{-4} \sin^8 x \\
& + 1/2 \text{Hb}(4,2,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin x \cos x - 1/8 \text{Hb}(4,2,7, \text{plext.plext}) F^{-4} \\
& - 4/3 \text{Hb}(4,5,8, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin x \cos x - 8/3 \text{Hb}(4,5,8, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^3 x \cos x \\
& + 40/27 \text{Hb}(4,5,8, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^2 x \cos x - 40/27 \text{Hb}(4,5,8, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^4 x \cos x \\
& + 1/2 \text{Hb}(5,1,6, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin x \cos x - 1/8 \text{Hb}(5,1,6, \text{plext.plext}) F^{-4} - 1/2 \text{Hb}(6,1,5, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin x \cos x \\
& + 1/8 \text{Hb}(6,1,5, \text{plext.plext}) F^{-4} - 4/3 \text{Hb}(6,7,8, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^3 x \cos x \\
& + 40/27 \text{Hb}(6,7,8, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^2 x \cos x - 40/27 \text{Hb}(6,7,8, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^4 x \cos x \\
& - 1/2 \text{Hb}(7,2,4, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin x \cos x + 1/8 \text{Hb}(7,2,4, \text{plext.plext}) F^{-4} - 4/9 \text{Hb}(8,1,2, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^2 x \cos x \\
& + 4/9 \text{Hb}(8,1,2, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^4 x \cos x - 1/3 \text{Hb}(8,4,5, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin x \cos x + 2/3 \text{Hb}(8,4,5, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^3 x \cos x \\
& + 1/12 \text{Hb}(8,4,5, \text{plext.plext}) F^{-4} + 2/9 \text{Hb}(8,4,5, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^2 x \cos x - 2/9 \text{Hb}(8,4,5, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^4 x \cos x \\
& + 1/3 \text{Hb}(8,6,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^3 x \cos x - 1/12 \text{Hb}(8,6,7, \text{plext.plext}) F^{-4} + 2/9 \text{Hb}(8,6,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^2 x \cos x \\
& - 2/9 \text{Hb}(8,6,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^4 x \cos x - 64/243 \text{Hb}(8,8,8, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^2 x \cos x \\
& + 64/27 \text{Hb}(8,8,8, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^4 x \cos x - 1024/243 \text{Hb}(8,8,8, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^6 x \cos x \\
& + 512/243 \text{Hb}(8,8,8, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^8 x \cos x + 2^* \text{H21b}(1,5,6, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin x \cos x - 2^* \text{H21b}(2,4,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^2 x \cos x \\
& - 2^* \text{H21b}(3,1,2, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^4 x \cos x + 4/3^* \text{H21b}(3,1,2, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^6 x \cos x - 2^* \text{H21b}(3,4,5, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^3 x \cos x \\
& + 5/4^* \text{H21b}(3,4,5, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^5 x \cos x - 11/3^* \text{H21b}(3,4,5, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^7 x \cos x + 2/3^* \text{H21b}(3,4,5, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^9 x \cos x \\
& + 19/2^* \text{H21b}(3,6,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin x \cos x + 2^* \text{H21b}(3,6,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^3 x \cos x - 5/4^* \text{H21b}(3,6,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^5 x \cos x - 11/3^* \text{H21b}(3,6,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^7 x \cos x \\
& + 5/2^* \text{H21b}(4,2,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin x \cos x + 5/2^* \text{H21b}(5,1,6, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^2 x \cos x - 1/2^* \text{H21b}(5,1,6, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^4 x \cos x + 3/2^* \text{H21b}(6,1,5, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin x \cos x \\
& + 1/2^* \text{H21b}(6,1,5, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^3 x \cos x - 3/2^* \text{H21b}(7,2,4, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^2 x \cos x + 1/2^* \text{H21b}(7,2,4, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^4 x \cos x + 2^* \text{H21b}(8,1,2, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin x \cos x \\
& - 4/3^* \text{H21b}(8,1,2, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^3 x \cos x + 4/3^* \text{H21b}(8,1,2, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^5 x \cos x + 3/2^* \text{H21b}(8,4,5, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin x \cos x + 2^* \text{H21b}(8,4,5, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^3 x \cos x \\
& - 1/4^* \text{H21b}(8,4,5, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^5 x \cos x - 1/3^* \text{H21b}(8,4,5, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^7 x \cos x - 2/3^* \text{H21b}(8,4,5, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^9 x \cos x - 1/2^* \text{H21b}(8,6,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin x \cos x \\
& - 2^* \text{H21b}(8,6,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^3 x \cos x + 1/4^* \text{H21b}(8,6,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^5 x \cos x - 1/3^* \text{H21b}(8,6,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^7 x \cos x \\
& + 1/4^* \text{H21b}(8,6,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^9 x \cos x - 2/3^* \text{H21b}(8,6,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^2 x \cos x \\
& + \text{mud}^* \text{mkp}2^2 * (- 1231/165888 F^{-4 \sqrt{3}-1} \sin x \cos x \pi^{-4} - 13/3888 F^{-4 \sqrt{3}-1} \sin^2 x \cos x \pi^{-2} + 176/27 F^{-4 \sqrt{3}-1} \sin x \cos x L8r \pi^{-2} - 8/3 F^{-4 \sqrt{3}-1} \sin^2 x \cos x L7r \pi^{-2} + 28/3 F^{-4 \sqrt{3}-1} \sin x \cos x L6r \pi^{-2})
\end{aligned}$$

$$\begin{aligned}
& 2 - 100/27F^{-4}\sqrt{3}^{-1}\sin x \cos x L5r \pi^{-2} - 4096/9F^{-4}\sqrt{3}^{-1}\sin x \cos x L5r L8r + 1024/3F^{-4}\sqrt{3}^{-1}\sin x \cos x L5r L7r - 2048/3F^{-4}\sqrt{3}^{-1}\sin x \cos x L5r L6r + 2560/9F^{-4}\sqrt{3}^{-1}\sin x \cos x L5r^2 - 14/3F^{-4}\sqrt{3}^{-1}\sin x \cos x L4r \pi^{-2} + 1024/3F^{-4}\sqrt{3}^{-1}\sin x \cos x L4r L8r + 3072F^{-4}\sqrt{3}^{-1}\sin x \cos x L4r L7r - 1024F^{-4}\sqrt{3}^{-1}\sin x \cos x L4r L6r + 2048/3F^{-4}\sqrt{3}^{-1}\sin x \cos x L4r L5r + 512F^{-4}\sqrt{3}^{-1}\sin x \cos x L4r^2 + 67/108F^{-4}\sqrt{3}^{-1}\sin x \cos x L3r \pi^{-2} + 23/9F^{-4}\sqrt{3}^{-1}\sin x \cos x L2r \pi^{-2} + 10/9F^{-4}\sqrt{3}^{-1}\sin x \cos x L1r \pi^{-2} - 1024/3F^{-4}\sqrt{3}^{-1}\sin x \cos x CC33 - 256/3F^{-4}\sqrt{3}^{-1}\sin x \cos x CC32 + 384F^{-4}\sqrt{3}^{-1}\sin x \cos x CC21 + 128F^{-4}\sqrt{3}^{-1}\sin x \cos x CC20 + 128/3F^{-4}\sqrt{3}^{-1}\sin x \cos x CC18 - 512/9F^{-4}\sqrt{3}^{-1}\sin x \cos x CC17 - 640/3F^{-4}\sqrt{3}^{-1}\sin x \cos x CC16 - 256/3F^{-4}\sqrt{3}^{-1}\sin x \cos x CC15 - 512/9F^{-4}\sqrt{3}^{-1}\sin x \cos x CC14 - 512/3F^{-4}\sqrt{3}^{-1}\sin x \cos x CC13 - 1280/9F^{-4}\sqrt{3}^{-1}\sin x \cos x CC12 + 7567/165888F^{-4}\sin x^2 \pi^{-4} + 1091/124416F^{-4}\sin x^2 \pi^{-2} + 14/9F^{-4}\sin x^2 L8r \pi^{-2} + 32/9F^{-4}\sin x^2 L7r \pi^{-2} - 4/9F^{-4}\sin x^2 L6r \pi^{-2} - 5/27F^{-4}\sin x^2 L5r \pi^{-2} + 2048/3F^{-4}\sin x^2 L5r L8r + 2048/3F^{-4}\sin x^2 L5r L7r + 2048/3F^{-4}\sin x^2 L5r L6r - 2048/9F^{-4}\sin x^2 L5r^2 + 2/9F^{-4}\sin x^2 L4r \pi^{-2} + 1024F^{-4}\sin x^2 L4r L8r + 1024F^{-4}\sin x^2 L4r L7r + 1024F^{-4}\sin x^2 L4r L6r - 2048/3F^{-4}\sin x^2 L4r L5r - 512F^{-4}\sin x^2 L4r^2 - 19/36F^{-4}\sin x^2 L3r \pi^{-2} - 17/9F^{-4}\sin x^2 L2r \pi^{-2} - 8/9F^{-4}\sin x^2 L1r \pi^{-2} - 256F^{-4}\sin x^2 CC33 - 256F^{-4}\sin x^2 CC32 - 256F^{-4}\sin x^2 CC31 - 384F^{-4}\sin x^2 CC21 - 384F^{-4}\sin x^2 CC20 - 384F^{-4}\sin x^2 CC19 + 256/3F^{-4}\sin x^2 CC18 + 256/3F^{-4}\sin x^2 CC17 + 128F^{-4}\sin x^2 CC16 + 256/3F^{-4}\sin x^2 CC15 + 256/3F^{-4}\sin x^2 CC14 + 512/3F^{-4}\sin x^2 CC13 + 1024/9F^{-4}\sin x^2 CC12 + 77/5184\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x \pi^{-4} - 136/27\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L8r \pi^{-2} + 104/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L7r \pi^{-2} - 152/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L6r \pi^{-2} + 40/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L5r \pi^{-2} + 64/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L4r \pi^{-2} - 10/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L3r \pi^{-2} - 20/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L2r \pi^{-2} - 20/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L1r \pi^{-2} - 41/2592\ln(3)F^{-4}\sin x^2 \pi^{-4} + 64/27\ln(3)F^{-4}\sin x^2 L8r \pi^{-2} - 32/3\ln(3)F^{-4}\sin x^2 L7r \pi^{-2} + 32/3\ln(3)F^{-4}\sin x^2 L6r \pi^{-2} - 80/27\ln(3)F^{-4}\sin x^2 L5r \pi^{-2} - 32/9\ln(3)F^{-4}\sin x^2 L4r \pi^{-2} + 8/3\ln(3)F^{-4}\sin x^2 L3r \pi^{-2} + 16/3\ln(3)F^{-4}\sin x^2 L2r \pi^{-2} + 16/3\ln(3)F^{-4}\sin x^2 L1r \pi^{-2} + 1/162\ln(3)F^{-4}\sin x^4 \pi^{-4} + 224/9\ln(3)F^{-4}\sin x^4 L8r \pi^{-2} + 512/9\ln(3)F^{-4}\sin x^4 L7r \pi^{-2} + 64/9\ln(3)F^{-4}\sin x^4 L6r \pi^{-2} - 80/27\ln(3)F^{-4}\sin x^4 L5r \pi^{-2} - 16/3\ln(3)F^{-4}\sin x^4 L4r \pi^{-2} - 256/27\ln(3)F^{-4}\sin x^6 L8r \pi^{-2} - 256/9\ln(3)F^{-4}\sin x^6 L7r \pi^{-2} + 31/10368\ln(3)^2 F^{-4}\sqrt{3}^{-1}\sin x \cos x \pi^{-4} - 1/2592\ln(3)^2 F^{-4}\sin x^2 \pi^{-4} - 5/2592\ln(3)^2 F^{-4}\sin x^4 \pi^{-4} - 25/1296\ln(3)^2 F^{-4}\sin x^6 \pi^{-4} + 1/81\ln(3)^2 F^{-4}\sin x^8 \pi^{-4} + 11/1728\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1}\sin x \cos x \pi^{-4} + 23/864\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1}\sin x^3 \cos x \pi^{-4} - 1/108\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1}\sin x^5 \cos x \pi^{-4} - 49/13824\ln(3)\ln(4)F^{-4}\pi^{-4} + 1/192\ln(3)\ln(4)F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2*\pi^{\wedge-4} + 1/864*\ln(3)*\ln(4)*F^{\wedge-4}*\sin x^4*\pi^{\wedge-4} + 1/108*\ln(3)*\ln(4)*F^{\wedge-} \\
& 4^*\sin x^6*\pi^{\wedge-4} - 89/3456*\ln(3)*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\pi^{\wedge-4} - \\
& 23/864*\ln(3)*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x^3*\cos x*\pi^{\wedge-4} + 1/108*\ln(3)*\ln(6)*F^{\wedge-} \\
& 4^*\sqrt{3}^{\wedge-1}*\sin x^5*\cos x*\pi^{\wedge-4} + 49/13824*\ln(3)*\ln(6)*F^{\wedge-4}*\pi^{\wedge-4} + 1/192*\ln(3)*\ln(6)*F^{\wedge-} \\
& 4^*\sin x^2*\pi^{\wedge-4} + 1/864*\ln(3)*\ln(6)*F^{\wedge-4}*\sin x^4*\pi^{\wedge-4} + 1/108*\ln(3)*\ln(6)*F^{\wedge-} \\
& 4^*\sin x^6*\pi^{\wedge-4} + 7/5184*\ln(3)*\ln(8)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\pi^{\wedge-4} - \\
& 1/1296*\ln(3)*\ln(8)*F^{\wedge-4}*\sin x^2*\pi^{\wedge-4} - 11/432*\ln(3)*\ln(8)*F^{\wedge-4}*\sin x^4*\pi^{\wedge-4} \\
& + 11/216*\ln(3)*\ln(8)*F^{\wedge-4}*\sin x^6*\pi^{\wedge-4} - 2/81*\ln(3)*\ln(8)*F^{\wedge-4}*\sin x^8*\pi^{\wedge-4} \\
& + 11/576*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\pi^{\wedge-4} + 14/9*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x*\cos x*L8r*\pi^{\wedge-2} + 12*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*L7r*\pi^{\wedge-2} - \\
& 8*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*L6r*\pi^{\wedge-2} + 11/9*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x*\cos x*L5r*\pi^{\wedge-2} + 16/3*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*L4r*\pi^{\wedge-2} \\
& + 5/3*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*L3r*\pi^{\wedge-2} + 2/3*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x*\cos x*L2r*\pi^{\wedge-2} + 8/3*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*L1r*\pi^{\wedge-2} - \\
& 1/108*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x^3*\cos x*\pi^{\wedge-4} - 64/9*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x^3*\cos x*L8r*\pi^{\wedge-2} - 64/3*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x^3*\cos x*L7r*\pi^{\wedge-2} - \\
& 493/82944*\ln(4)*F^{\wedge-4}*\pi^{\wedge-4} - 41/54*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} - 22/9*\ln(4)*F^{\wedge-} \\
& 4^*L7r*\pi^{\wedge-2} - 1/36*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} + 1/3*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*L4r*\pi^{\wedge-2} - 17/24*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} - 1/3*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*L2r*\pi^{\wedge-2} - 4/3*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} + 13/1152*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x^2*\pi^{\wedge-4} + \ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} + 2*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x^2*L7r*\pi^{\wedge-2} - 1/6*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} - 1/6*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x^2*L5r*\pi^{\wedge-2} - \ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} + 7/4*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x^2*L3r*\pi^{\wedge-2} + \ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} + 4*\ln(4)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x^2*L1r*\pi^{\wedge-2} - 7/768*\ln(4)*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} + 1/144*\ln(4)*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} \\
& + 35/13824*\ln(4)*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} - 11/1152*\ln(4)*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} + 1/288*\ln(4)*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x*\cos x*\pi^{\wedge-4} + 1/768*\ln(4)*\ln(6)*F^{\wedge-4}*\pi^{\wedge-4} + 61/4608*\ln(4)*\ln(6)*F^{\wedge-} \\
& 4^*\sin x^2*\pi^{\wedge-4} - 1/72*\ln(4)*\ln(6)*F^{\wedge-4}*\sin x^4*\pi^{\wedge-4} + 37/3456*\ln(4)*\ln(8)*F^{\wedge-} \\
& 4^*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\pi^{\wedge-4} - 5/288*\ln(4)*\ln(8)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x^3*\cos x*\pi^{\wedge-} \\
& 4 + 1/108*\ln(4)*\ln(8)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x^5*\cos x*\pi^{\wedge-4} - 55/41472*\ln(4)*\ln(8)*F^{\wedge-} \\
& 4^*\pi^{\wedge-4} + 1/96*\ln(4)*\ln(8)*F^{\wedge-4}*\sin x^2*\pi^{\wedge-4} - 1/864*\ln(4)*\ln(8)*F^{\wedge-} \\
& 4^*\sin x^4*\pi^{\wedge-4} - 1/108*\ln(4)*\ln(8)*F^{\wedge-4}*\sin x^6*\pi^{\wedge-4} - 289/6912*\ln(6)*F^{\wedge-} \\
& 4^*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\pi^{\wedge-4} + 166/9*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*L8r*\pi^{\wedge-2} \\
& + 20/3*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*L7r*\pi^{\wedge-2} + 16*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x*\cos x*L6r*\pi^{\wedge-2} - 73/9*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*L5r*\pi^{\wedge-2} - \\
& 26/3*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*L4r*\pi^{\wedge-2} - 41/6*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x*\cos x*L3r*\pi^{\wedge-2} - 10/3*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*L2r*\pi^{\wedge-2} - \\
& 40/3*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*L1r*\pi^{\wedge-2} + 1/108*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x^3*\cos x*\pi^{\wedge-4} + 64/9*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x^3*\cos x*L8r*\pi^{\wedge-2} + \\
& 64/3*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x^3*\cos x*L7r*\pi^{\wedge-2} + 493/82944*\ln(6)*F^{\wedge-} \\
& 4^*\pi^{\wedge-4} + 41/54*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} + 22/9*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*L7r*\pi^{\wedge-2} + 1/36*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} - 1/3*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*L4r*\pi^{\wedge-2} + 17/24*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} + 1/3*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*L2r*\pi^{\wedge-2} + 4/3*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} + 13/1152*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x^2*\pi^{\wedge-4} + \ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} + 2*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x^2*L7r*\pi^{\wedge-2} - 1/6*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} - 1/6*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x^2*L5r*\pi^{\wedge-2} - \ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2} + 7/4*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-} \\
& 1^*\sin x^2*L3r*\pi^{\wedge-2} + \ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\pi^{\wedge-2}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2*L2r*\pi^{-2} + 4*\ln(6)*F^{-4}*\sin x^2*L1r*\pi^{-2} + 19/576*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/144*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& - 53/13824*\ln(6)^2*F^{-4}*\pi^{-4} - 11/1152*\ln(6)^2*F^{-4}*\sin x^2*\pi^{-4} + 1/144*\ln(6)^2*F^{-4}*\sin x^4*\pi^{-4} + 1/96*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} + 5/288*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/108*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 55/41472*\ln(6)*\ln(8)*F^{-4} \\
& * \pi^{-4} + 1/96*\ln(6)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 1/864*\ln(6)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 1/108*\ln(6)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} + 5/1296*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 128/27*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 32/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 8/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L6r*\pi^{-2} - 16/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} - 16/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} - 2/9*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L3r*\pi^{-2} - 2/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} - 8/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + 1/162*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} \\
& + 416/27*\ln(8)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 256/9*\ln(8)*F^{-4}*\sin x^2*L7r*\pi^{-2} + 64/9*\ln(8)*F^{-4}*\sin x^2*L6r*\pi^{-2} - 80/27*\ln(8)*F^{-4}*\sin x^2*L5r*\pi^{-2} \\
& - 16/3*\ln(8)*F^{-4}*\sin x^2*L4r*\pi^{-2} - 1/162*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 224/9*\ln(8)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 512/9*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} - \\
& 64/9*\ln(8)*F^{-4}*\sin x^4*L6r*\pi^{-2} + 80/27*\ln(8)*F^{-4}*\sin x^4*L5r*\pi^{-2} + 16/3*\ln(8)*F^{-4}*\sin x^4*L4r*\pi^{-2} + 256/27*\ln(8)*F^{-4}*\sin x^6*L8r*\pi^{-2} \\
& + 256/9*\ln(8)*F^{-4}*\sin x^6*L7r*\pi^{-2} - 1/384*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 7/864*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} + 71/2592*\ln(8)^2*F^{-4} \\
& * \sin x^4*\pi^{-4} - 41/1296*\ln(8)^2*F^{-4}*\sin x^6*\pi^{-4} + 1/81*\ln(8)^2*F^{-4}*\sin x^8*\pi^{-4}) \\
& + \text{mud}*\text{mkp}2^3 * (- 637/15552/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 83/1944/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} + 5/729/(\text{mass}(3))*\ln(3)^2*F^{-4} \\
& * \sin x^4*\pi^{-4} - 524288/81/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^2*L8r^2 - 1048576/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^2*L7r*L8r - 524288/9/(\text{mass}(3) \\
& - \text{mass}(8))*F^{-4}*\sin x^2*L7r^2 + 524288/81/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^4*L8r^2 + 1048576/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^4*L7r*L8r \\
& + 524288/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^4*L7r^2 + 112/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 112/27/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 4096/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} + 4096/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4} \\
& * \sin x^4*L7r*\pi^{-2} - 4096/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^6*L8r*\pi^{-2} - 4096/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^6*L7r*\pi^{-2} - 7/7776/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 1/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4} \\
& * \sin x^4*\pi^{-4} - 8/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} + 8/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^8*\pi^{-4} + 91/15552/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 4/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 4/81/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 7/7776/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\pi^{-4} - 4/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4} \\
& * \sin x^4*\pi^{-4} + 4/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sin x^6*\pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& - 133/15552/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4*sqrt{3}-1}*sinx*cosx*\pi^{-4} \\
& - 4/243/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4*sqrt{3}-1}*sinx^3*cosx*\pi^{-4} \\
& + 4/81/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4*sqrt{3}-1}*sinx^5*cosx*\pi^{-4} \\
& + 7/7776/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4*\pi^{-4}} - 4/243/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4*sqrt{3}-1}*sinx^4*\pi^{-4} + 4/243/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4*sqrt{3}-1}*sinx^6*\pi^{-4} - 2/729/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4*sqrt{3}-1}*sinx^2*\pi^{-4} - 14/729/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4*sqrt{3}-1}*sinx^4*\pi^{-4} + 32/729/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4*sqrt{3}-1}*sinx^6*\pi^{-4} - 16/729/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4*sqrt{3}-1}*sinx^8*\pi^{-4} - 416/27/(mass(3) - mass(8))*ln(4)*F^{-4*sqrt{3}-1}*sinx*cosx*L8r*\pi^{-2} - 416/9/(mass(3) - mass(8))*ln(4)*F^{-4*sqrt{3}-1}*sinx*cosx*L7r*\pi^{-2} + 1024/27/(mass(3) - mass(8))*ln(4)*F^{-4*sqrt{3}-1}*sinx^3*cosx*L8r*\pi^{-2} + 1024/9/(mass(3) - mass(8))*ln(4)*F^{-4*sqrt{3}-1}*sinx^3*cosx*L7r*\pi^{-2} + 28/27/(mass(3) - mass(8))*ln(4)*F^{-4*L8r*\pi^{-2}} + 28/9/(mass(3) - mass(8))*ln(4)*F^{-4*L7r*\pi^{-2}} + 1024/81/(mass(3) - mass(8))*ln(4)*F^{-4*sqrt{3}-1}*sinx^2*L8r*\pi^{-2} + 1024/27/(mass(3) - mass(8))*ln(4)*F^{-4*sqrt{3}-1}*sinx^2*L7r*\pi^{-2} - 1024/81/(mass(3) - mass(8))*ln(4)*F^{-4*sqrt{3}-1}*sinx^4*L8r*\pi^{-2} - 1024/27/(mass(3) - mass(8))*ln(4)*F^{-4*sqrt{3}-1}*sinx^4*L7r*\pi^{-2} + 23/1728/(mass(3) - mass(8))*ln(4)^2*F^{-4*sqrt{3}-1}*sinx*cosx*\pi^{-4} - 1/27/(mass(3) - mass(8))*ln(4)^2*F^{-4*sqrt{3}-1}*sinx^3*cosx*\pi^{-4} - 5/2304/(mass(3) - mass(8))*ln(4)^2*F^{-4*\pi^{-4}} + 23/2592/(mass(3) - mass(8))*ln(4)^2*F^{-4*sqrt{3}-1}*sinx^2*\pi^{-4} - 1/81/(mass(3) - mass(8))*ln(4)^2*F^{-4*sqrt{3}-1}*sinx^4*\pi^{-4} + 1/288/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4*sqrt{3}-1}*sinx*cosx*\pi^{-4} + 1/432/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4*\pi^{-4}} - 55/1296/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4*sqrt{3}-1}*sinx^2*\pi^{-4} + 4/81/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4*sqrt{3}-1}*sinx^4*\pi^{-4} + 221/15552/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4*sqrt{3}-1}*sinx*cosx*\pi^{-4} - 16/243/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4*sqrt{3}-1}*sinx^3*cosx*\pi^{-4} + 4/81/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4*sqrt{3}-1}*sinx^5*cosx*\pi^{-4} - 7/15552/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4*\pi^{-4}} - 4/243/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4*sqrt{3}-1}*sinx^4*\pi^{-4} - 4/243/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4*sqrt{3}-1}*sinx^6*\pi^{-4} + 416/27/(mass(3) - mass(8))*ln(6)*F^{-4*sqrt{3}-1}*sinx*cosx*L8r*\pi^{-2} + 416/9/(mass(3) - mass(8))*ln(6)*F^{-4*sqrt{3}-1}*sinx*cosx*L7r*\pi^{-2} - 1024/27/(mass(3) - mass(8))*ln(6)*F^{-4*sqrt{3}-1}*sinx^3*cosx*L8r*\pi^{-2} - 1024/9/(mass(3) - mass(8))*ln(6)*F^{-4*sqrt{3}-1}*sinx^3*cosx*L7r*\pi^{-2} - 28/27/(mass(3) - mass(8))*ln(6)*F^{-4*L8r*\pi^{-2}} - 28/9/(mass(3) - mass(8))*ln(6)*F^{-4*L7r*\pi^{-2}} + 1024/81/(mass(3) - mass(8))*ln(6)*F^{-4*sqrt{3}-1}*sinx^2*L8r*\pi^{-2} + 1024/27/(mass(3) - mass(8))*ln(6)*F^{-4*sqrt{3}-1}*sinx^2*L7r*\pi^{-2} - 1024/81/(mass(3) - mass(8))*ln(6)*F^{-4*sqrt{3}-1}*sinx^4*L8r*\pi^{-2} - 1024/27/(mass(3) - mass(8))*ln(6)*F^{-4*sqrt{3}-1}*sinx^4*L7r*\pi^{-2} - 29/1728/(mass(3) - mass(8))*ln(6)^2*F^{-4*sqrt{3}-1}*sinx*cosx*\pi^{-4} + 1/27/(mass(3) - mass(8))*ln(6)^2*F^{-4*sqrt{3}-1}*sinx^3*cosx*\pi^{-4} - 1/6912/(mass(3) - mass(8))*ln(6)^2*F^{-4*\pi^{-4}} + 23/2592/(mass(3) - mass(8))*ln(6)^2*F^{-4*sqrt{3}-1}*sinx^2*\pi^{-4} - 1/81/(mass(3) - mass(8))*ln(6)^2*F^{-4*sqrt{3}-1}*sinx^4*\pi^{-4} - 179/15552/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4*sqrt{3}-1}*sinx*cosx*\pi^{-4} + 16/243/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4*sqrt{3}-1}*sinx^3*cosx*\pi^{-4} - 4/81/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4*sqrt{3}-1}*sinx^5*cosx*\pi^{-4} + 7/15552/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4*sqrt{3}-1}*sinx^5*cosx*\pi^{-4} + 7/15552/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4*sqrt{3}-1}*sinx^5*cosx*\pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4\pi^4 - 4/243/(\text{mass}(3) - \text{mass}(8))\ln(6)\ln(8)F^{-4}\sin^2\pi^4 + \\
& 8/243/(\text{mass}(3) - \text{mass}(8))\ln(6)\ln(8)F^{-4}\sin^4\pi^4 - 4/243/(\text{mass}(3) - \\
& \text{mass}(8))\ln(6)\ln(8)F^{-4}\sin^6\pi^4 - 112/81/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*L8r\pi^2 - \\
& 112/27/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*L7r\pi^2 + 4096/243/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4}\sin^2L8r\pi^2 + \\
& 4096/81/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4}\sin^2L7r\pi^2 - 8192/243/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4}\sin^4L8r\pi^2 - \\
& 8192/81/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4}\sin^4L7r\pi^2 + 4096/243/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4}\sin^6L8r\pi^2 + \\
& 4096/81/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4}\sin^6L7r\pi^2 + 7/7776/(\text{mass}(3) - \text{mass}(8))\ln(8)^2F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^4 - \\
& 7/729/(\text{mass}(3) - \text{mass}(8))\ln(8)^2F^{-4}\sin^2\pi^4 + 23/729/(\text{mass}(3) - \text{mass}(8))\ln(8)^2F^{-4}\sin^4\pi^4 + \\
& 8/243/(\text{mass}(3) - \text{mass}(8))\ln(8)^2F^{-4}\sin^6\pi^4 + 8/729/(\text{mass}(3) - \text{mass}(8))\ln(8)^2F^{-4}\sin^8\pi^4 + \\
& 217/9216/(\text{mass}(4))\ln(4)^2F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^4 - 17/4608/(\text{mass}(4))\ln(4)^2F^{-4}\pi^4 + \\
& 25/2304/(\text{mass}(4))\ln(4)^2F^{-4}\sin^2\pi^4 + 97/9216/(\text{mass}(5))\ln(4)^2F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^4 - \\
& 1/768/(\text{mass}(5))\ln(4)^2F^{-4}\pi^4 + 13/2304/(\text{mass}(5))\ln(4)^2F^{-4}\sin^2\pi^4 - 391/9216/(\text{mass}(6))\ln(6)^2F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^4 + \\
& 3/512/(\text{mass}(6))\ln(6)^2F^{-4}\pi^4 + 25/2304/(\text{mass}(6))\ln(6)^2F^{-4}\sin^2\pi^4 - 31/9216/(\text{mass}(7))\ln(6)^2F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^4 - \\
& 1/1152/(\text{mass}(7))\ln(6)^2F^{-4}\pi^4 + 13/2304/(\text{mass}(7))\ln(6)^2F^{-4}\sin^2\pi^4 + 17/3456/(\text{mass}(8))\ln(8)^2F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^4 + \\
& 5/729/(\text{mass}(8))\ln(8)^2F^{-4}\sin^2\pi^4 - 5/729/(\text{mass}(8))\ln(8)^2F^{-4}\sin^4\pi^4) \\
& + \text{mud}^*\text{mpp}2 * (+ 20/3^*\text{HH}1\text{b}(1,2,3,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^*\cos^* - \\
& 4/3^*\text{HH}1\text{b}(1,2,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^*\cos^* - 2/3^*\text{HH}1\text{b}(1,5,6,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^*\cos^* - \\
& 1/3^*\text{HH}1\text{b}(1,5,6,\text{plext.plext})F^{-4} + 2/3^*\text{HH}1\text{b}(1,5,6,\text{plext.plext})F^{-4}\sin^2 + 20/3^*\text{HH}1\text{b}(2,1,3,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^*\cos^* - \\
& 4/3^*\text{HH}1\text{b}(2,1,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^*\cos^* - 2/3^*\text{HH}1\text{b}(2,4,7,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^*\cos^* - \\
& 1/3^*\text{HH}1\text{b}(2,4,7,\text{plext.plext})F^{-4} + 2/3^*\text{HH}1\text{b}(2,4,7,\text{plext.plext})F^{-4}\sin^2 - 43/9^*\text{HH}1\text{b}(3,4,5,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^*\cos^* + \\
& 8/9^*\text{HH}1\text{b}(3,4,5,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^3\cos^* - 13/18^*\text{HH}1\text{b}(3,4,5,\text{plext.plext})F^{-4} - 7/9^*\text{HH}1\text{b}(3,4,5,\text{plext.plext})F^{-4}\sin^2 - \\
& 8/9^*\text{HH}1\text{b}(3,4,5,\text{plext.plext})F^{-4}\sin^4 + 1/9^*\text{HH}1\text{b}(3,6,7,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^*\cos^* - 8/9^*\text{HH}1\text{b}(3,6,7,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^3\cos^* + \\
& 13/18^*\text{HH}1\text{b}(3,6,7,\text{plext.plext})F^{-4} - 7/9^*\text{HH}1\text{b}(3,6,7,\text{plext.plext})F^{-4}\sin^2 - 8/9^*\text{HH}1\text{b}(3,6,7,\text{plext.plext})F^{-4}\sin^4 - \\
& 2/3^*\text{HH}1\text{b}(4,2,7,\text{plext.plext})F^{-4} - 19/9^*\text{HH}1\text{b}(4,5,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^*\cos^* + 8/9^*\text{HH}1\text{b}(4,5,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^3\cos^* - \\
& 1/18^*\text{HH}1\text{b}(4,5,8,\text{plext.plext})F^{-4} + 5/9^*\text{HH}1\text{b}(4,5,8,\text{plext.plext})F^{-4}\sin^2 - 8/9^*\text{HH}1\text{b}(4,5,8,\text{plext.plext})F^{-4}\sin^4 - 2/3^*\text{HH}1\text{b}(5,1,6,\text{plext.plext})F^{-4} - 19/9^*\text{HH}1\text{b}(5,4,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^*\cos^* + 8/9^*\text{HH}1\text{b}(5,4,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^3\cos^* - \\
& 1/18^*\text{HH}1\text{b}(5,4,8,\text{plext.plext})F^{-4} + 5/9^*\text{HH}1\text{b}(5,4,8,\text{plext.plext})F^{-4}\sin^2 - 8/9^*\text{HH}1\text{b}(5,4,8,\text{plext.plext})F^{-4}\sin^4 + 1/9^*\text{HH}1\text{b}(6,7,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^*\cos^* - 8/9^*\text{HH}1\text{b}(6,7,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^3\cos^* + \\
& 1/18^*\text{HH}1\text{b}(6,7,8,\text{plext.plext})F^{-4} + 5/9^*\text{HH}1\text{b}(6,7,8,\text{plext.plext})F^{-4}\sin^2 - 8/9^*\text{HH}1\text{b}(6,7,8,\text{plext.plext})F^{-4}\sin^4 + 1/9^*\text{HH}1\text{b}(7,6,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^*\cos^* - 8/9^*\text{HH}1\text{b}(7,6,8,\text{plext.plext})F^{-4}\sqrt{3}^{-1}\sin^3\cos^*
\end{aligned}$$

$$\begin{aligned}
& + 1/18*HH1b(7,6,8,plext.plext)*F^{-4} + 5/9*HH1b(7,6,8,plext.plext)*F^{-4} \\
& 4*\sin^2 - 8/9*HH1b(7,6,8,plext.plext)*F^{-4}*\sin^4 - 4*Hb(1,2,3,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin*\cos - 8/9*Hb(1,2,3,plext.plext)*F^{-4}*\sin^2 + 8/9*Hb(1,2,3,plext.plext)*F^{-4} \\
& 4*\sin^4 + 4/3*Hb(1,2,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos + 8/9*Hb(1,2,8,plext.plext)*F^{-4} \\
& 4*\sin^2 - 8/9*Hb(1,2,8,plext.plext)*F^{-4}*\sin^4 + 19/12*Hb(1,5,6,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin*\cos + 1/3*Hb(1,5,6,plext.plext)*F^{-4} - 1/4*Hb(1,5,6,plext.plext)*F^{-4} \\
& 4*\sin^2 + 19/12*Hb(2,4,7,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos + 1/3*Hb(2,4,7,plext.plext)*F^{-4} \\
& 4 - 1/4*Hb(2,4,7,plext.plext)*F^{-4}*\sin^2 + Hb(3,1,2,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin*\cos + 2/9*Hb(3,1,2,plext.plext)*F^{-4}*\sin^2 - 2/9*Hb(3,1,2,plext.plext)*F^{-4} \\
& 4*\sin^4 + 8/9*Hb(3,3,3,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos - 56/243*Hb(3,3,3,plext.plext)*F^{-4} \\
& 4*\sin^2 + 208/81*Hb(3,3,3,plext.plext)*F^{-4}*\sin^4 - 1024/243*Hb(3,3,3,plext.plext)*F^{-4} \\
& 4*\sin^6 + 512/243*Hb(3,3,3,plext.plext)*F^{-4}*\sin^8 + 64/81*Hb(3,3,8,plext.plext)*F^{-4} \\
& 4*\sin^2 - 64/9*Hb(3,3,8,plext.plext)*F^{-4}*\sin^4 + 1024/81*Hb(3,3,8,plext.plext)*F^{-4} \\
& 4*\sin^6 - 512/81*Hb(3,3,8,plext.plext)*F^{-4}*\sin^8 + 113/36*Hb(3,4,5,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin*\cos - 5/3*Hb(3,4,5,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& + 13/36*Hb(3,4,5,plext.plext)*F^{-4} + 103/108*Hb(3,4,5,plext.plext)*F^{-4} \\
& 4*\sin^2 - 1/27*Hb(3,4,5,plext.plext)*F^{-4}*\sin^4 - 5/12*Hb(3,6,7,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin*\cos + 5/3*Hb(3,6,7,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& - 13/36*Hb(3,6,7,plext.plext)*F^{-4} + 103/108*Hb(3,6,7,plext.plext)*F^{-4} \\
& 4*\sin^2 - 1/27*Hb(3,6,7,plext.plext)*F^{-4}*\sin^4 - 16/27*Hb(3,8,8,plext.plext)*F^{-4} \\
& 4*\sin^2 + 560/81*Hb(3,8,8,plext.plext)*F^{-4}*\sin^4 - 1024/81*Hb(3,8,8,plext.plext)*F^{-4} \\
& 4*\sin^6 + 512/81*Hb(3,8,8,plext.plext)*F^{-4}*\sin^8 + 1/8*Hb(4,2,7,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin*\cos - 1/16*Hb(4,2,7,plext.plext)*F^{-4} + 1/8*Hb(4,2,7,plext.plext)*F^{-4} \\
& 4*\sin^2 + 13/9*Hb(4,5,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos + 4/9*Hb(4,5,8,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin^3*\cos + 1/9*Hb(4,5,8,plext.plext)*F^{-4} - 19/27*Hb(4,5,8,plext.plext)*F^{-4} \\
& 4*\sin^2 + 28/27*Hb(4,5,8,plext.plext)*F^{-4}*\sin^4 + 1/8*Hb(5,1,6,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin*\cos - 1/16*Hb(5,1,6,plext.plext)*F^{-4} + 1/8*Hb(5,1,6,plext.plext)*F^{-4} \\
& 4*\sin^2 - 3/8*Hb(6,1,5,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos - 3/16*Hb(6,1,5,plext.plext)*F^{-4} \\
& 4 + 1/8*Hb(6,1,5,plext.plext)*F^{-4}*\sin^2 + 5/9*Hb(6,7,8,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin*\cos - 4/9*Hb(6,7,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& - 1/9*Hb(6,7,8,plext.plext)*F^{-4} - 19/27*Hb(6,7,8,plext.plext)*F^{-4}*\sin^2 \\
& + 28/27*Hb(6,7,8,plext.plext)*F^{-4}*\sin^4 - 3/8*Hb(7,2,4,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin*\cos - 3/16*Hb(7,2,4,plext.plext)*F^{-4} + 1/8*Hb(7,2,4,plext.plext)*F^{-4} \\
& 4*\sin^2 - 2/9*Hb(8,1,2,plext.plext)*F^{-4}*\sin^2 + 2/9*Hb(8,1,2,plext.plext)*F^{-4} \\
& 4*\sin^4 - 1/6*Hb(8,4,5,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos + 1/3*Hb(8,4,5,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin^3*\cos - 5/24*Hb(8,4,5,plext.plext)*F^{-4} + 1/9*Hb(8,4,5,plext.plext)*F^{-4} \\
& 4*\sin^2 - 1/9*Hb(8,4,5,plext.plext)*F^{-4}*\sin^4 + 1/6*Hb(8,6,7,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin*\cos - 1/3*Hb(8,6,7,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& - 1/24*Hb(8,6,7,plext.plext)*F^{-4} + 1/9*Hb(8,6,7,plext.plext)*F^{-4}*\sin^2 \\
& - 1/9*Hb(8,6,7,plext.plext)*F^{-4}*\sin^4 + 64/243*Hb(8,8,8,plext.plext)*F^{-4} \\
& 4*\sin^2 - 64/27*Hb(8,8,8,plext.plext)*F^{-4}*\sin^4 + 1024/243*Hb(8,8,8,plext.plext)*F^{-4} \\
& 4*\sin^6 - 512/243*Hb(8,8,8,plext.plext)*F^{-4}*\sin^8 - 1/2*H21b(1,5,6,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin*\cos + 1/2*H21b(1,5,6,plext.plext)*F^{-4}*\sin^2 - 1/2*H21b(2,4,7,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin*\cos + 1/2*H21b(2,4,7,plext.plext)*F^{-4}*\sin^2 + 3*H21b(3,1,2,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin*\cos + 2/3*H21b(3,1,2,plext.plext)*F^{-4}*\sin^2 - 2/3*H21b(3,1,2,plext.plext)*F^{-4} \\
& 4*\sin^4 + 11/4*H21b(3,4,5,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin*\cos - H21b(3,4,5,plext.plext)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}-1} \sin^3 x \cos x + 1/4^{\text{H21b}(3,4,5,\text{plext.plext})} F^{-4} + 5/12^{\text{H21b}(3,4,5,\text{plext.plext})} F^{-4} \sin^2 x + 1/3^{\text{H21b}(3,4,5,\text{plext.plext})} F^{-4} \sin^4 x - 5/4^{\text{H21b}(3,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + \text{H21b}(3,6,7,\text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^3 x \cos x \\
& - 1/4^{\text{H21b}(3,6,7,\text{plext.plext})} F^{-4} + 5/12^{\text{H21b}(3,6,7,\text{plext.plext})} F^{-4} \sin^2 x + 1/3^{\text{H21b}(3,6,7,\text{plext.plext})} F^{-4} \sin^4 x + 1/2^{\text{H21b}(4,2,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x - 1/4^{\text{H21b}(4,2,7,\text{plext.plext})} F^{-4} + 1/2^{\text{H21b}(5,1,6,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x - 1/4^{\text{H21b}(5,1,6,\text{plext.plext})} F^{-4} + 3/2^{\text{H21b}(6,1,5,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + 1/4^{\text{H21b}(6,1,5,\text{plext.plext})} F^{-4} + 3/2^{\text{H21b}(7,2,4,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + 1/4^{\text{H21b}(7,2,4,\text{plext.plext})} F^{-4} + \text{H21b}(8,1,2,\text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin x \cos x - 2/3^{\text{H21b}(8,1,2,\text{plext.plext})} F^{-4} \sin^2 x + 2/3^{\text{H21b}(8,1,2,\text{plext.plext})} F^{-4} \sin^4 x - 3/4^{\text{H21b}(8,4,5,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + \text{H21b}(8,4,5,\text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^3 x \cos x + 1/4^{\text{H21b}(8,4,5,\text{plext.plext})} F^{-4} + 7/12^{\text{H21b}(8,4,5,\text{plext.plext})} F^{-4} \sin^2 x - 1/3^{\text{H21b}(8,4,5,\text{plext.plext})} F^{-4} \sin^4 x + 5/4^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x - \text{H21b}(8,6,7,\text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^3 x \cos x \\
& - 1/4^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} + 7/12^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x - 1/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^4 x \\
& + \text{mud}^{\text{mpp2}^{\text{mkp2}}} * (+ 65/41472^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 155/248832^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-2} + 38/27^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L8r \pi^{-2} + 28/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L7r \pi^{-2} - 2/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L6r \pi^{-2} + 23/27^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L5r \pi^{-2} + 3584/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L5r L8r + 2560/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L5r L7r - 2048/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L5r L6r - 512/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L5r^2 + 1/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L4r \pi^{-2} - 3584/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L4r L8r - 1536^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L4r L7r - 1024^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L4r L6r + 2048/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L4r L5r + 512^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L4r^2 - 103/216^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L3r \pi^{-2} - 13/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L2r \pi^{-2} - 2/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x L1r \pi^{-2} - 256/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x CC33 + 896/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x CC32 - 128^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x CC31 + 384^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x CC21 - 192^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x CC19 + 320/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x CC18 + 448/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x CC17 + 896/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x CC16 - 256/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x CC15 + 448/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x CC14 - 512/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x CC13 + 256/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x CC12 + 15/4096^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \pi^{-4} + 11/9216^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \pi^{-2} + 4/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} L8r \pi^{-2} + 4/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} L7r \pi^{-2} + 4/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} L6r \pi^{-2} - 4/27^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} L5r \pi^{-2} - 2/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} L4r \pi^{-2} + 512^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} L4r L6r - 256^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} L4r^2 - 43/216^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} L3r \pi^{-2} - 13/18^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} L2r \pi^{-2} - 192^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} CC21 - 64^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} CC20 + 64^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} CC16 - 103/3072^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x \pi^{-4} - 83/13824^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x \pi^{-2} - 104/27^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x L8r \pi^{-2} - 56/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x L7r \pi^{-2} - 20/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x L6r \pi^{-2} + 8/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x L5r \pi^{-2} - 5120/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x L5r L8r - 1024^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x L5r L7r + 1024/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x L5r^2 + 10/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x L4r \pi^{-2} - 1024/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x L4r L8r - 1024^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x L4r L7r + 47/108^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x L3r \pi^{-2} + 4/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x L2r \pi^{-2} + 4/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x L1r \pi^{-2} + 1024/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x CC33 + 256/3^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x CC32 + 256^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x CC31 + 256^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x CC20 + 384^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x CC19 - 128^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x CC18 - 640/9^{\text{H21b}(8,6,7,\text{plext.plext})} F^{-4} \sin^2 x CC17 -
\end{aligned}$$

$$\begin{aligned}
& 512/3 * F^{-4} * \sin x^2 * CC16 - 640/9 * F^{-4} * \sin x^2 * CC14 - 512/9 * F^{-4} * \sin x^2 * CC12 \\
& - 1/384 * \ln(1) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - 1/324 * \ln(1) * F^{-4} * \sin x^2 * \pi^{-4} \\
& - 64/27 * \ln(1) * F^{-4} * \sin x^2 * L8r * \pi^{-2} - 64/9 * \ln(1) * F^{-4} * \sin x^2 * L7r * \pi^{-2} \\
& + 1/324 * \ln(1) * F^{-4} * \sin x^4 * \pi^{-4} + 64/27 * \ln(1) * F^{-4} * \sin x^4 * L8r * \pi^{-2} \\
& + 64/9 * \ln(1) * F^{-4} * \sin x^4 * L7r * \pi^{-2} + 1/1728 * \ln(1) * \ln(3) * F^{-4} * \sqrt{3}^{-1} \\
& * \sin x * \cos x * \pi^{-4} - 13/1296 * \ln(1) * \ln(3) * F^{-4} * \sin x^2 * \pi^{-4} + 7/432 * \ln(1) * \ln(3) * F^{-4} \\
& * \sin x^4 * \pi^{-4} - 1/162 * \ln(1) * \ln(3) * F^{-4} * \sin x^6 * \pi^{-4} - 1/96 * \ln(1) * \ln(4) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 1/144 * \ln(1) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} \\
& - 7/9216 * \ln(1) * \ln(4) * F^{-4} * \pi^{-4} + 1/432 * \ln(1) * \ln(4) * F^{-4} * \sin x^2 * \pi^{-4} \\
& - 1/432 * \ln(1) * \ln(4) * F^{-4} * \sin x^4 * \pi^{-4} + 7/384 * \ln(1) * \ln(6) * F^{-4} * \sqrt{3}^{-1} \\
& * \sin x * \cos x * \pi^{-4} - 1/144 * \ln(1) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} \\
& + 7/9216 * \ln(1) * \ln(6) * F^{-4} * \pi^{-4} + 1/432 * \ln(1) * \ln(6) * F^{-4} * \sin x^2 * \pi^{-4} \\
& - 1/432 * \ln(1) * \ln(6) * F^{-4} * \sin x^4 * \pi^{-4} + 1/216 * \ln(1) * \ln(8) * F^{-4} * \sqrt{3}^{-1} \\
& * \sin x * \cos x * \pi^{-4} + 17/1296 * \ln(1) * \ln(8) * F^{-4} * \sin x^2 * \pi^{-4} - 25/1296 * \ln(1) * \ln(8) * F^{-4} \\
& * \sin x^4 * \pi^{-4} + 1/162 * \ln(1) * \ln(8) * F^{-4} * \sin x^6 * \pi^{-4} - 53/10368 * \ln(3) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 146/27 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L8r * \pi^{-2} \\
& + 86/9 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L7r * \pi^{-2} - 44/9 * \ln(3) * F^{-4} * \sqrt{3}^{-1} \\
& * \sin x * \cos x * L6r * \pi^{-2} - 10/9 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L5r * \pi^{-2} + \\
& 43/9 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L4r * \pi^{-2} + 2/3 * \ln(3) * F^{-4} * \sqrt{3}^{-1} \\
& * \sin x * \cos x * L3r * \pi^{-2} + 4/3 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L2r * \pi^{-2} + \\
& 4/3 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L1r * \pi^{-2} + 1/192 * \ln(3) * F^{-4} * \sin x^2 * \pi^{-4} \\
& - 52/9 * \ln(3) * F^{-4} * \sin x^2 * L8r * \pi^{-2} + 44/9 * \ln(3) * F^{-4} * \sin x^2 * L7r * \pi^{-2} \\
& - 56/9 * \ln(3) * F^{-4} * \sin x^2 * L6r * \pi^{-2} + 100/27 * \ln(3) * F^{-4} * \sin x^2 * L5r * \pi^{-2} \\
& + 22/9 * \ln(3) * F^{-4} * \sin x^2 * L4r * \pi^{-2} - 4/3 * \ln(3) * F^{-4} * \sin x^2 * L3r * \pi^{-2} \\
& - 8/3 * \ln(3) * F^{-4} * \sin x^2 * L2r * \pi^{-2} - 8/3 * \ln(3) * F^{-4} * \sin x^2 * L1r * \pi^{-2} - \\
& 256/9 * \ln(3) * F^{-4} * \sin x^4 * L8r * \pi^{-2} - 256/3 * \ln(3) * F^{-4} * \sin x^4 * L7r * \pi^{-2} + \\
& 512/27 * \ln(3) * F^{-4} * \sin x^6 * L8r * \pi^{-2} + 512/9 * \ln(3) * F^{-4} * \sin x^6 * L7r * \pi^{-2} \\
& - 11/41472 * \ln(3)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 17/10368 * \ln(3)^2 * F^{-4} \\
& * \sin x^2 * \pi^{-4} + 5/864 * \ln(3)^2 * F^{-4} * \sin x^4 * \pi^{-4} + 5/432 * \ln(3)^2 * F^{-4} \\
& * \sin x^6 * \pi^{-4} - 1/81 * \ln(3)^2 * F^{-4} * \sin x^8 * \pi^{-4} - 5/432 * \ln(3) * \ln(4) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - 1/32 * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} \\
& + 1/108 * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^5 * \cos x * \pi^{-4} - 1/2304 * \ln(3) * \ln(4) * F^{-4} \\
& * \pi^{-4} - 29/2592 * \ln(3) * \ln(4) * F^{-4} * \sin x^2 * \pi^{-4} + 17/864 * \ln(3) * \ln(4) * F^{-4} \\
& * \sin x^4 * \pi^{-4} - 5/324 * \ln(3) * \ln(4) * F^{-4} * \sin x^6 * \pi^{-4} + 1/216 * \ln(3) * \ln(6) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 1/32 * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} \\
& - 1/108 * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x^5 * \cos x * \pi^{-4} + 1/2304 * \ln(3) * \ln(6) * F^{-4} \\
& * \pi^{-4} - 29/2592 * \ln(3) * \ln(6) * F^{-4} * \sin x^2 * \pi^{-4} + 17/864 * \ln(3) * \ln(6) * F^{-4} \\
& * \sin x^4 * \pi^{-4} - 5/324 * \ln(3) * \ln(6) * F^{-4} * \sin x^6 * \pi^{-4} - 11/20736 * \ln(3) * \ln(8) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - 1/432 * \ln(3) * \ln(8) * F^{-4} * \sin x^2 * \pi^{-4} + \\
& 11/432 * \ln(3) * \ln(8) * F^{-4} * \sin x^4 * \pi^{-4} - 31/648 * \ln(3) * \ln(8) * F^{-4} * \sin x^6 * \pi^{-4} \\
& + 2/81 * \ln(3) * \ln(8) * F^{-4} * \sin x^8 * \pi^{-4} - 185/9216 * \ln(4) * F^{-4} * \sqrt{3}^{-1} \\
& * \sin x * \cos x * \pi^{-4} - 28/3 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L8r * \pi^{-2} - 20 * \ln(4) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin x * \cos x * L7r * \pi^{-2} - 6 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L6r * \pi^{-2} \\
& + 4/3 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L5r * \pi^{-2} + 13/2 * \ln(4) * F^{-4} * \sqrt{3}^{-1} \\
& * \sin x * \cos x * L4r * \pi^{-2} - 25/8 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L3r * \pi^{-2} \\
& - 2 * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L2r * \pi^{-2} - 8 * \ln(4) * F^{-4} * \sqrt{3}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x*\cos x*L1r*\pi^{-2} + 1/72*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 32/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} + 32*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*L7r*\pi^{-2} + 185/82944*\ln(4)*F^{-4}*\pi^{-4} + 38/27*\ln(4)*F^{-4} \\
& 4*L8r*\pi^{-2} + 17/9*\ln(4)*F^{-4}*L7r*\pi^{-2} + 2*\ln(4)*F^{-4}*L6r*\pi^{-2} - \\
& 7/18*\ln(4)*F^{-4}*L5r*\pi^{-2} - 11/6*\ln(4)*F^{-4}*L4r*\pi^{-2} + 11/24*\ln(4)*F^{-4} \\
& 4*L3r*\pi^{-2} + 1/3*\ln(4)*F^{-4}*L2r*\pi^{-2} + 4/3*\ln(4)*F^{-4}*L1r*\pi^{-2} - \\
& 23/41472*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} - 22/27*\ln(4)*F^{-4}*\sin x^2*L8r*\pi^{-2} \\
& + 20/9*\ln(4)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 4*\ln(4)*F^{-4}*\sin x^2*L6r*\pi^{-2} + \\
& 7/9*\ln(4)*F^{-4}*\sin x^2*L5r*\pi^{-2} + 11/3*\ln(4)*F^{-4}*\sin x^2*L4r*\pi^{-2} - \\
& 11/12*\ln(4)*F^{-4}*\sin x^2*L3r*\pi^{-2} - 2/3*\ln(4)*F^{-4}*\sin x^2*L2r*\pi^{-2} \\
& - 8/3*\ln(4)*F^{-4}*\sin x^2*L1r*\pi^{-2} - 1/648*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} - \\
& 32/27*\ln(4)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 32/9*\ln(4)*F^{-4}*\sin x^4*L7r*\pi^{-2} + \\
& 85/9216*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/72*\ln(4)^2*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*\pi^{-4} - 11/27648*\ln(4)^2*F^{-4}*\pi^{-4} - 1/4608*\ln(4)^2*F^{-4} \\
& 4*\sin x^2*\pi^{-4} - 7/4608*\ln(4)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 7/9216*\ln(4)*\ln(6)*F^{-4}*\pi^{-4} - 7/864*\ln(4)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} + \\
& 1/216*\ln(4)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} - 11/864*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*\pi^{-4} + 5/288*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/108*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 17/10368*\ln(4)*\ln(8)*F^{-4} \\
& 4*\pi^{-4} + 5/5184*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 47/2592*\ln(4)*\ln(8)*F^{-4} \\
& 4*\sin x^4*\pi^{-4} + 5/324*\ln(4)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} + 257/27648*\ln(6)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 4/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} \\
& + 20/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 18*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L6r*\pi^{-2} + 4/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} - \\
& 101/6*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + 113/24*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L3r*\pi^{-2} + 10/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} + \\
& 40/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - 1/72*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*\pi^{-4} - 32/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} \\
& - 32*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} + 211/82944*\ln(6)*F^{-4} \\
& 4*\pi^{-4} + 16/27*\ln(6)*F^{-4}*L8r*\pi^{-2} - 17/9*\ln(6)*F^{-4}*L7r*\pi^{-2} + \\
& 2*\ln(6)*F^{-4}*L6r*\pi^{-2} - 11/18*\ln(6)*F^{-4}*L5r*\pi^{-2} - 13/6*\ln(6)*F^{-4} \\
& 4*L4r*\pi^{-2} + 19/24*\ln(6)*F^{-4}*L3r*\pi^{-2} + 2/3*\ln(6)*F^{-4}*L2r*\pi^{-2} \\
& + 8/3*\ln(6)*F^{-4}*L1r*\pi^{-2} - 23/41472*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} - \\
& 22/27*\ln(6)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 20/9*\ln(6)*F^{-4}*\sin x^2*L7r*\pi^{-2} \\
& - 4*\ln(6)*F^{-4}*\sin x^2*L6r*\pi^{-2} + 7/9*\ln(6)*F^{-4}*\sin x^2*L5r*\pi^{-2} \\
& + 11/3*\ln(6)*F^{-4}*\sin x^2*L4r*\pi^{-2} - 11/12*\ln(6)*F^{-4}*\sin x^2*L3r*\pi^{-2} \\
& - 2/3*\ln(6)*F^{-4}*\sin x^2*L2r*\pi^{-2} - 8/3*\ln(6)*F^{-4}*\sin x^2*L1r*\pi^{-2} \\
& - 1/648*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} - 32/27*\ln(6)*F^{-4}*\sin x^4*L8r*\pi^{-2} \\
& - 32/9*\ln(6)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 143/9216*\ln(6)^2*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*\pi^{-4} + 1/72*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 17/27648*\ln(6)^2*F^{-4}*\pi^{-4} - 1/4608*\ln(6)^2*F^{-4}*\sin x^2*\pi^{-4} - 1/864*\ln(6)*\ln(8)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 5/288*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& + 1/108*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 19/10368*\ln(6)*\ln(8)*F^{-4} \\
& 4*\pi^{-4} + 5/5184*\ln(6)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 47/2592*\ln(6)*\ln(8)*F^{-4} \\
& 4*\sin x^4*\pi^{-4} + 5/324*\ln(6)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 11/2592*\ln(8)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 22/27*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& - 10/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 4*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L6r*\pi^{-2} + 2/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} - \\
& 37/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + 10/9*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L3r*\pi^{-2} + 10/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} + \\
& 40/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - 1/1296*\ln(8)*F^{-4}*\pi^{-4} \\
& + 4/9*\ln(8)*F^{-4}*L8r*\pi^{-2} - 4/3*\ln(8)*F^{-4}*L7r*\pi^{-2} + 8/3*\ln(8)*F^{-4} \\
& * L6r*\pi^{-2} - 4/9*\ln(8)*F^{-4}*L5r*\pi^{-2} - 22/9*\ln(8)*F^{-4}*L4r*\pi^{-2} + \\
& 4/9*\ln(8)*F^{-4}*L3r*\pi^{-2} + 4/9*\ln(8)*F^{-4}*L2r*\pi^{-2} + 16/9*\ln(8)*F^{-4} \\
& * L1r*\pi^{-2} + 1/1296*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 268/27*\ln(8)*F^{-4}*\sin x^2*L8r*\pi^{-2} \\
& - 244/9*\ln(8)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 8/3*\ln(8)*F^{-4}*\sin x^2*L6r*\pi^{-2} \\
& + 4/9*\ln(8)*F^{-4}*\sin x^2*L5r*\pi^{-2} + 22/9*\ln(8)*F^{-4}*\sin x^2*L4r*\pi^{-2} \\
& - 4/9*\ln(8)*F^{-4}*\sin x^2*L3r*\pi^{-2} - 4/9*\ln(8)*F^{-4}*\sin x^2*L2r*\pi^{-2} - \\
& 16/9*\ln(8)*F^{-4}*\sin x^2*L1r*\pi^{-2} + 256/9*\ln(8)*F^{-4}*\sin x^4*L8r*\pi^{-2} \\
& + 256/3*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 512/27*\ln(8)*F^{-4}*\sin x^6*L8r*\pi^{-2} \\
& - 512/9*\ln(8)*F^{-4}*\sin x^6*L7r*\pi^{-2} - 17/13824*\ln(8)^2*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} - 1/1152*\ln(8)^2*F^{-4}*\pi^{-4} + 85/10368*\ln(8)^2*F^{-4} \\
& * \sin x^2*\pi^{-4} - 1/32*\ln(8)^2*F^{-4}*\sin x^4*\pi^{-4} + 47/1296*\ln(8)^2*F^{-4} \\
& * \sin x^6*\pi^{-4} - 1/81*\ln(8)^2*F^{-4}*\sin x^8*\pi^{-4}) \\
& + \text{mud}*\text{mpp}2*\text{mkp}2^2 * (+ 239/10368/(\text{mass}(3))^*\ln(3)^2*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} - 41/864/(\text{mass}(3))^*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} + 5/1944/(\text{mass}(3))^*\ln(3)^2*F^{-4} \\
& * \sin x^4*\pi^{-4} + 524288/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^2*L8r^2 + \\
& 1048576/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^2*L7r*L8r + 524288/3/(\text{mass}(3) \\
& - \text{mass}(8))*F^{-4}*\sin x^2*L7r^2 - 524288/27/(\text{mass}(3) - \text{mass}(8))*F^{-4} \\
& * \sin x^4*L8r^2 - 1048576/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^4*L7r*L8r \\
& - 524288/3/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^4*L7r^2 - 16/9/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(1)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 16/3/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(1)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 1/864/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(1)*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/324/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(1)*\ln(3)*F^{-4}*\sin x^2*\pi^{-4} + 1/324/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(3)*F^{-4} \\
& * \sin x^4*\pi^{-4} - 1/288/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} + 1/3456/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(4)*F^{-4}*\pi^{-4} \\
& + 1/144/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& - 1/3456/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(6)*F^{-4}*\pi^{-4} + 1/864/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(1)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/324/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(1)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 1/324/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(8)*F^{-4} \\
& * \sin x^4*\pi^{-4} - 56/27/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} \\
& - 56/9/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - \\
& 256/27/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^2*L8r*\pi^{-2} - 256/9/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(3)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 1792/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4} \\
& * \sin x^4*L8r*\pi^{-2} - 1792/27/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} \\
& - 2 + 2560/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^6*L8r*\pi^{-2} + 2560/27/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^6*L7r*\pi^{-2} + 7/5184/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/972/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4} \\
& * \sin x^2*\pi^{-4} + 13/972/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} \\
& - 1/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} - 2/243/(\text{mass}(3) -
\end{aligned}$$

$$\begin{aligned}
& 4\sqrt{3}^{-1}\sin^3\cos x\pi^{-4} - 1/576/(\text{mass}(3) - \text{mass}(8))\ln(6)^2F^{-4}\pi^{-4} + 73/3456/(\text{mass}(3) - \text{mass}(8))\ln(6)^2F^{-4}\sin^2\pi^{-4} - \\
& 1/54/(\text{mass}(3) - \text{mass}(8))\ln(6)^2F^{-4}\sin^4\pi^{-4} + 41/5184/(\text{mass}(3) - \text{mass}(8))\ln(6)\ln(8)F^{-4}\sqrt{3}^{-1}\sin^2\cos x\pi^{-4} - 29/648/(\text{mass}(3) - \\
& \text{mass}(8))\ln(6)\ln(8)F^{-4}\sqrt{3}^{-1}\sin^3\cos x\pi^{-4} + 1/54/(\text{mass}(3) - \text{mass}(8))\ln(6)\ln(8)F^{-4}\sqrt{3}^{-1}\sin^5\cos x\pi^{-4} - 1/2304/(\text{mass}(3) - \\
& \text{mass}(8))\ln(6)\ln(8)F^{-4}\pi^{-4} + 25/648/(\text{mass}(3) - \text{mass}(8))\ln(6)\ln(8)F^{-4}\sin^2\pi^{-4} - 5/72/(\text{mass}(3) - \text{mass}(8))\ln(6)\ln(8)F^{-4}\sin^4\pi^{-4} + \\
& 5/162/(\text{mass}(3) - \text{mass}(8))\ln(6)\ln(8)F^{-4}\sin^6\pi^{-4} + 56/27/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4}\sqrt{3}^{-1}\sin^2\cos xL8r\pi^{-2} + 56/9/(\text{mass}(3) - \\
& \text{mass}(8))\ln(8)F^{-4}\sqrt{3}^{-1}\sin^2\cos xL7r\pi^{-2} - 3328/81/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4}\sin^2L7r\pi^{-2} + 5888/81/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4}\sin^4L8r\pi^{-2} - \\
& 2560/81/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4}\sin^4L7r\pi^{-2} - 2560/27/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4}\sin^6L8r\pi^{-2} - 2560/27/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4}\sin^6L7r\pi^{-2} - \\
& 7/5184/(\text{mass}(3) - \text{mass}(8))\ln(8)^2F^{-4}\sqrt{3}^{-1}\sin^2\cos x\pi^{-4} + 19/972/(\text{mass}(3) - \text{mass}(8))\ln(8)^2F^{-4}\sin^2\pi^{-4} - 47/972/(\text{mass}(3) - \text{mass}(8))\ln(8)^2F^{-4}\sin^4\pi^{-4} + 1/27/(\text{mass}(3) - \\
& \text{mass}(8))\ln(8)^2F^{-4}\sin^6\pi^{-4} - 2/243/(\text{mass}(3) - \text{mass}(8))\ln(8)^2F^{-4}\sin^8\pi^{-4} - 47/1536/(\text{mass}(4))\ln(4)^2F^{-4}\sqrt{3}^{-1}\sin^2\cos x\pi^{-4} + 25/12288/(\text{mass}(4))\ln(4)^2F^{-4}\pi^{-4} - 13/2048/(\text{mass}(4))\ln(4)^2F^{-4}\sin^2\pi^{-4} - 35/1536/(\text{mass}(5))\ln(4)^2F^{-4}\sqrt{3}^{-1}\sin^2\cos x\pi^{-4} + 25/12288/(\text{mass}(5))\ln(4)^2F^{-4}\pi^{-4} - 13/2048/(\text{mass}(5))\ln(4)^2F^{-4}\sin^2\pi^{-4} + 7/192/(\text{mass}(6))\ln(6)^2F^{-4}\sqrt{3}^{-1}\sin^2\cos x\pi^{-4} + 11/4096/(\text{mass}(6))\ln(6)^2F^{-4}\pi^{-4} - 13/2048/(\text{mass}(6))\ln(6)^2F^{-4}\sin^2\pi^{-4} + 11/384/(\text{mass}(7))\ln(6)^2F^{-4}\sqrt{3}^{-1}\sin^2\cos x\pi^{-4} + 25/12288/(\text{mass}(7))\ln(6)^2F^{-4}\pi^{-4} - 13/2048/(\text{mass}(7))\ln(6)^2F^{-4}\sin^2\pi^{-4} + 61/20736/(\text{mass}(8))\ln(8)^2F^{-4}\sqrt{3}^{-1}\sin^2\cos x\pi^{-4} + 1/384/(\text{mass}(8))\ln(8)^2F^{-4}\pi^{-4} - 1/31104/(\text{mass}(8))\ln(8)^2F^{-4}\sin^2\pi^{-4} - 5/1944/(\text{mass}(8))\ln(8)^2F^{-4}\sin^4\pi^{-4}) \\
& + \text{mud}^{\text{mpp}2^2} * (- 30073/663552F^{-4}\sqrt{3}^{-1}\sin^2\cos x\pi^{-4} - 4055/497664F^{-4}\sqrt{3}^{-1}\sin^2\cos x\pi^{-2} - 124/27F^{-4}\sqrt{3}^{-1}\sin^2\cos xL8r\pi^{-2} - 20/3F^{-4}\sqrt{3}^{-1}\sin^2\cos xL7r\pi^{-2} - 8/3F^{-4}\sqrt{3}^{-1}\sin^2\cos xL6r\pi^{-2} + 32/27F^{-4}\sqrt{3}^{-1}\sin^2\cos xL5r\pi^{-2} - 6400/9F^{-4}\sqrt{3}^{-1}\sin^2\cos xL5rL8r - 3584/3F^{-4}\sqrt{3}^{-1}\sin^2\cos xL5rL7r - 512/3F^{-4}\sqrt{3}^{-1}\sin^2\cos xL5rL6r + 1408/9F^{-4}\sqrt{3}^{-1}\sin^2\cos xL5r^2 + 4/3F^{-4}\sqrt{3}^{-1}\sin^2\cos xL4r\pi^{-2} - 2048/3F^{-4}\sqrt{3}^{-1}\sin^2\cos xL4rL8r - 1536F^{-4}\sqrt{3}^{-1}\sin^2\cos xL4rL7r - 256F^{-4}\sqrt{3}^{-1}\sin^2\cos xL4rL6r + 512/3F^{-4}\sqrt{3}^{-1}\sin^2\cos xL4rL5r + 128F^{-4}\sqrt{3}^{-1}\sin^2\cos xL4r^2 + 113/216F^{-4}\sqrt{3}^{-1}\sin^2\cos xL3r\pi^{-2} + 59/36F^{-4}\sqrt{3}^{-1}\sin^2\cos xL2r\pi^{-2} + 11/18F^{-4}\sqrt{3}^{-1}\sin^2\cos xL1r\pi^{-2} + 1280/3F^{-4}\sqrt{3}^{-1}\sin^2\cos xCC33 + 512/3F^{-4}\sqrt{3}^{-1}\sin^2\cos xCC32 + 320F^{-4}\sqrt{3}^{-1}\sin^2\cos xCC31 + 96F^{-4}\sqrt{3}^{-1}\sin^2\cos xCC21 + 352F^{-4}\sqrt{3}^{-1}\sin^2\cos xCC20 + 480F^{-4}\sqrt{3}^{-1}\sin^2\cos xCC19 - 448/3F^{-4}\sqrt{3}^{-1}\sin^2\cos xCC18 - 800/9F^{-4}\sqrt{3}^{-1}\sin^2\cos xCC17
\end{aligned}$$

$$\begin{aligned}
& -544/3^*F^{-4}*sqrt3^{-1}*sinx*cosx*CC16 - 64/3^*F^{-4}*sqrt3^{-1}*sinx*cosx*CC15 - \\
& 800/9^*F^{-4}*sqrt3^{-1}*sinx*cosx*CC14 - 128/3^*F^{-4}*sqrt3^{-1}*sinx*cosx*CC13 \\
& - 704/9^*F^{-4}*sqrt3^{-1}*sinx*cosx*CC12 + 139/110592^*F^{-4}*pi^{-4} + 37/165888^*F^{-4} \\
& 4^*pi^{-2} - 2/9^*F^{-4}*L8r^*pi^{-2} - 4/9^*F^{-4}*L7r^*pi^{-2} - 4/9^*F^{-4}*L6r^*pi^{-2} \\
& + 1/27^*F^{-4}*L5r^*pi^{-2} + 128^*F^{-4}*L5r^*L6r + 2/9^*F^{-4}*L4r^*pi^{-2} + \\
& 128^*F^{-4}*L4r^*L8r + 256^*F^{-4}*L4r^*L6r - 128^*F^{-4}*L4r^*L5r - 128^*F^{-4} \\
& 4^*L4r^2 + 1/54^*F^{-4}*L3r^*pi^{-2} + 1/18^*F^{-4}*L2r^*pi^{-2} - 32^*F^{-4}*CC32 \\
& - 96^*F^{-4}*CC21 - 32^*F^{-4}*CC16 + 16^*F^{-4}*CC15 + 32^*F^{-4}*CC13 + \\
& 3299/663552^*F^{-4}*sinx^2*pi^{-4} + 427/497664^*F^{-4}*sinx^2*pi^{-2} + 32/27^*F^{-4} \\
& 4^*sinx^2*L8r^*pi^{-2} + 8/3^*F^{-4}*sinx^2*L7r^*pi^{-2} + 2/3^*F^{-4}*sinx^2*L6r^*pi^{-2} \\
& - 4/27^*F^{-4}*sinx^2*L5r^*pi^{-2} + 1280/9^*F^{-4}*sinx^2*L5r^*L8r + 1024/3^*F^{-4} \\
& 4^*sinx^2*L5r^*L7r - 512/3^*F^{-4}*sinx^2*L5r^*L6r - 128/9^*F^{-4}*sinx^2*L5r^2 \\
& - 1/3^*F^{-4}*sinx^2*L4r^*pi^{-2} - 512/3^*F^{-4}*sinx^2*L4r^*L8r - 256^*F^{-4} \\
& 4^*sinx^2*L4r^*L6r + 512/3^*F^{-4}*sinx^2*L4r^*L5r + 128^*F^{-4}*sinx^2*L4r^2 \\
& - 7/54^*F^{-4}*sinx^2*L3r^*pi^{-2} - 13/36^*F^{-4}*sinx^2*L2r^*pi^{-2} - 1/18^*F^{-4} \\
& 4^*sinx^2*L1r^*pi^{-2} - 256/3^*F^{-4}*sinx^2*CC33 + 128/3^*F^{-4}*sinx^2*CC32 \\
& - 64^*F^{-4}*sinx^2*CC31 + 96^*F^{-4}*sinx^2*CC21 - 32^*F^{-4}*sinx^2*CC20 - \\
& 96^*F^{-4}*sinx^2*CC19 + 128/3^*F^{-4}*sinx^2*CC18 + 160/9^*F^{-4}*sinx^2*CC17 \\
& + 224/3^*F^{-4}*sinx^2*CC16 - 64/3^*F^{-4}*sinx^2*CC15 + 160/9^*F^{-4} \\
& 4^*sinx^2*CC14 - 128/3^*F^{-4}*sinx^2*CC13 + 64/9^*F^{-4}*sinx^2*CC12 \\
& - 31/4608*ln(1)^*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 4*ln(1)^*F^{-4}*sqrt3^{-1} \\
& 1^*sinx*cosx*L8r^*pi^{-2} - 4*ln(1)^*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r^*pi^{-2} - \\
& 4*ln(1)^*F^{-4}*sqrt3^{-1}*sinx*cosx*L6r^*pi^{-2} + 4/3*ln(1)^*F^{-4}*sqrt3^{-1} \\
& 1^*sinx*cosx*L5r^*pi^{-2} + 4*ln(1)^*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r^*pi^{-2} - \\
& 3/2*ln(1)^*F^{-4}*sqrt3^{-1}*sinx*cosx*L3r^*pi^{-2} - ln(1)^*F^{-4}*sqrt3^{-1}*sinx*cosx*L2r^*pi^{-2} \\
& - 4*ln(1)^*F^{-4}*sqrt3^{-1}*sinx*cosx*L1r^*pi^{-2} + 1/512*ln(1)^*F^{-4}*pi^{-4} - \\
& 2*ln(1)^*F^{-4}*L6r^*pi^{-2} + 3/2*ln(1)^*F^{-4}*L4r^*pi^{-2} + 23/41472*ln(1)^*F^{-4} \\
& 4^*sinx^2*pi^{-4} + 64/27*ln(1)^*F^{-4}*sinx^2*L8r^*pi^{-2} + 52/9*ln(1)^*F^{-4} \\
& 4^*sinx^2*L7r^*pi^{-2} + 4*ln(1)^*F^{-4}*sinx^2*L6r^*pi^{-2} - 2/9*ln(1)^*F^{-4} \\
& 4^*sinx^2*L5r^*pi^{-2} - 10/3*ln(1)^*F^{-4}*sinx^2*L4r^*pi^{-2} + 1/3*ln(1)^*F^{-4} \\
& 4^*sinx^2*L3r^*pi^{-2} + 1/3*ln(1)^*F^{-4}*sinx^2*L2r^*pi^{-2} + 4/3*ln(1)^*F^{-4} \\
& 4^*sinx^2*L1r^*pi^{-2} - 1/324*ln(1)^*F^{-4}*sinx^4*pi^{-4} - 64/27*ln(1)^*F^{-4} \\
& 4^*sinx^4*L8r^*pi^{-2} - 64/9*ln(1)^*F^{-4}*sinx^4*L7r^*pi^{-2} - 1/2304*ln(1)^2*F^{-4} \\
& 4^*sqrt3^{-1}*sinx*cosx*pi^{-4} - 53/3456*ln(1)*ln(3)^*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} \\
& + 35/10368*ln(1)*ln(3)^*F^{-4}*sinx^2*pi^{-4} - 1/96*ln(1)*ln(3)^*F^{-4}*sinx^4*pi^{-4} \\
& + 1/162*ln(1)*ln(3)^*F^{-4}*sinx^6*pi^{-4} - 7/9216*ln(1)*ln(4)^*F^{-4}*sqrt3^{-1} \\
& 1^*sinx*cosx*pi^{-4} + 1/288*ln(1)*ln(4)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} - \\
& 1/18432*ln(1)*ln(4)^*F^{-4}*pi^{-4} - 37/27648*ln(1)*ln(4)^*F^{-4}*sinx^2*pi^{-4} \\
& + 1/432*ln(1)*ln(4)^*F^{-4}*sinx^4*pi^{-4} - 13/3072*ln(1)*ln(6)^*F^{-4}*sqrt3^{-1} \\
& 1^*sinx*cosx*pi^{-4} - 1/288*ln(1)*ln(6)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} + \\
& 1/18432*ln(1)*ln(6)^*F^{-4}*pi^{-4} - 37/27648*ln(1)*ln(6)^*F^{-4}*sinx^2*pi^{-4} \\
& + 1/432*ln(1)*ln(6)^*F^{-4}*sinx^4*pi^{-4} - 13/3456*ln(1)*ln(8)^*F^{-4}*sqrt3^{-1} \\
& 1^*sinx*cosx*pi^{-4} + 1/1152*ln(1)*ln(8)^*F^{-4}*pi^{-4} - 85/10368*ln(1)*ln(8)^*F^{-4} \\
& 4^*sinx^2*pi^{-4} + 35/2592*ln(1)*ln(8)^*F^{-4}*sinx^4*pi^{-4} - 1/162*ln(1)*ln(8)^*F^{-4} \\
& 4^*sinx^6*pi^{-4} + 35/5184*ln(3)^*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 496/27*ln(3)^*F^{-4} \\
& 4^*sqrt3^{-1}*sinx*cosx*L8r^*pi^{-2} - 226/9*ln(3)^*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r^*pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2 - 92/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} + 5*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L5r*\pi^{-2} + 83/18*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} \\
& - 11/6*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} - 11/3*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L2r*\pi^{-2} - 11/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + \\
& \ln(3)*F^{-4}*L6r*\pi^{-2} - 3/4*\ln(3)*F^{-4}*L4r*\pi^{-2} + 5/10368*\ln(3)*F^{-4} \\
& * \sin x^2*\pi^{-4} + 38/27*\ln(3)*F^{-4}*\sin x^2*L8r*\pi^{-2} - 32/9*\ln(3)*F^{-4} \\
& * \sin x^2*L7r*\pi^{-2} + 8/9*\ln(3)*F^{-4}*\sin x^2*L6r*\pi^{-2} - 35/27*\ln(3)*F^{-4} \\
& * \sin x^2*L5r*\pi^{-2} - 7/18*\ln(3)*F^{-4}*\sin x^2*L4r*\pi^{-2} + 1/6*\ln(3)*F^{-4} \\
& * \sin x^2*L3r*\pi^{-2} + 1/3*\ln(3)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 1/3*\ln(3)*F^{-4} \\
& * \sin x^2*L1r*\pi^{-2} - 1/648*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} + 104/9*\ln(3)*F^{-4} \\
& * \sin x^4*L8r*\pi^{-2} + 352/9*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 16/9*\ln(3)*F^{-4} \\
& * \sin x^4*L6r*\pi^{-2} + 20/27*\ln(3)*F^{-4}*\sin x^4*L5r*\pi^{-2} + 4/3*\ln(3)*F^{-4} \\
& * \sin x^4*L4r*\pi^{-2} - 256/27*\ln(3)*F^{-4}*\sin x^6*L8r*\pi^{-2} - 256/9*\ln(3)*F^{-4} \\
& * \sin x^6*L7r*\pi^{-2} + 683/82944*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 1/10368*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 73/10368*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} + \\
& 31/5184*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} + 1/768*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} + 7/3456*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 13/27648*\ln(3)*\ln(4)*F^{-4}*\pi^{-4} + 65/10368*\ln(3)*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} - \\
& 43/3456*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + 1/162*\ln(3)*\ln(4)*F^{-4}*\sin x^6*\pi^{-4} - \\
& 67/6912*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 7/3456*\ln(3)*\ln(6)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 5/3456*\ln(3)*\ln(6)*F^{-4}*\pi^{-4} + 65/10368*\ln(3)*\ln(6)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 43/3456*\ln(3)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + 1/162*\ln(3)*\ln(6)*F^{-4} \\
& * \sin x^6*\pi^{-4} - 7/41472*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 1/2304*\ln(3)*\ln(8)*F^{-4}*\pi^{-4} + 7/5184*\ln(3)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - \\
& 1/576*\ln(3)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 1/2592*\ln(3)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} \\
& + 7/2304*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 25/9*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L8r*\pi^{-2} + 6*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + \\
& 2*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} - 7/18*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L5r*\pi^{-2} - 11/6*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + \\
& 11/24*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} + 1/3*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L2r*\pi^{-2} + 4/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - \\
& 1/216*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 32/9*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x^3*\cos x*L8r*\pi^{-2} - 32/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} \\
& - 5/165888*\ln(4)*F^{-4}*\pi^{-4} - 4/27*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} - 4/9*\ln(4)*F^{-4} \\
& * L7r*\pi^{-2} - 155/82944*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} - 32/27*\ln(4)*F^{-4} \\
& * \sin x^2*L8r*\pi^{-2} - 32/9*\ln(4)*F^{-4}*\sin x^2*L7r*\pi^{-2} + 1/648*\ln(4)*F^{-4} \\
& * \sin x^4*\pi^{-4} + 32/27*\ln(4)*F^{-4}*\sin x^4*L8r*\pi^{-2} + 32/9*\ln(4)*F^{-4} \\
& * \sin x^4*L7r*\pi^{-2} - 7/9216*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 1/576*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/13824*\ln(4)^2*F^{-4}*\pi^{-4} \\
& + 1/576*\ln(4)^2*F^{-4}*\sin x^2*\pi^{-4} - 1/576*\ln(4)^2*F^{-4}*\sin x^4*\pi^{-4} \\
& + 1/576*\ln(4)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/864*\ln(4)*\ln(6)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 1/864*\ln(4)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + 19/13824*\ln(4)*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/384*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& - 4 + 7/20736*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} - 169/41472*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} \\
& - 4 + 113/10368*\ln(4)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 1/162*\ln(4)*\ln(8)*F^{-4} \\
& * \sin x^6*\pi^{-4} - 5/864*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 43/9*\ln(6)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}-1} \sin x \cos x L_{8r} \pi^{-2} - 22/3 \ln(6) F^{-4\sqrt{3}-1} \sin x \cos x L_{7r} \pi^{-2} \\
& - 6 \ln(6) F^{-4\sqrt{3}-1} \sin x \cos x L_{6r} \pi^{-2} + 7/6 \ln(6) F^{-4\sqrt{3}-1} \sin x \cos x L_{5r} \pi^{-2} \\
& + 11/2 \ln(6) F^{-4\sqrt{3}-1} \sin x \cos x L_{4r} \pi^{-2} - 11/8 \ln(6) F^{-4\sqrt{3}-1} \sin x \cos x L_{3r} \pi^{-2} \\
& - \ln(6) F^{-4\sqrt{3}-1} \sin x \cos x L_{2r} \pi^{-2} - 4 \ln(6) F^{-4\sqrt{3}-1} \sin x \cos x L_{1r} \pi^{-2} \\
& + 1/216 \ln(6) F^{-4\sqrt{3}-1} \sin^3 \cos x \pi^{-4} + 32/9 \ln(6) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{8r} \pi^{-2} \\
& + 32/3 \ln(6) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{7r} \pi^{-2} + 5/165888 \ln(6) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{6r} \pi^{-2} \\
& + 4/27 \ln(6) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{5r} \pi^{-2} + 4/9 \ln(6) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{4r} \pi^{-2} \\
& - 155/82944 \ln(6) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{3r} \pi^{-2} - 32/27 \ln(6) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{2r} \pi^{-2} \\
& - 32/9 \ln(6) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{1r} \pi^{-2} + 1/648 \ln(6) F^{-4\sqrt{3}-1} \sin^4 \cos x \pi^{-4} \\
& + 32/27 \ln(6) F^{-4\sqrt{3}-1} \sin^4 \cos x L_{8r} \pi^{-2} + 32/9 \ln(6) F^{-4\sqrt{3}-1} \sin^4 \cos x L_{7r} \pi^{-2} \\
& + 5/9216 \ln(6) F^{-4\sqrt{3}-1} \sin^4 \cos x L_{6r} \pi^{-2} - 1/576 \ln(6) F^{-4\sqrt{3}-1} \sin^4 \cos x L_{5r} \pi^{-2} \\
& - 1/576 \ln(6) F^{-4\sqrt{3}-1} \sin^4 \cos x L_{4r} \pi^{-2} + 1/13824 \ln(6) F^{-4\sqrt{3}-1} \sin^4 \cos x L_{3r} \pi^{-2} \\
& + 1/576 \ln(6) F^{-4\sqrt{3}-1} \sin^4 \cos x L_{2r} \pi^{-2} - 1/576 \ln(6) F^{-4\sqrt{3}-1} \sin^4 \cos x L_{1r} \pi^{-2} \\
& - 5/13824 \ln(6) \ln(8) F^{-4\sqrt{3}-1} \sin^3 \cos x \pi^{-4} - 1/384 \ln(6) \ln(8) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{8r} \pi^{-2} \\
& - 55/82944 \ln(6) \ln(8) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{7r} \pi^{-2} - 169/41472 \ln(6) \ln(8) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{6r} \pi^{-2} \\
& + 113/10368 \ln(6) \ln(8) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{5r} \pi^{-2} - 1/162 \ln(6) \ln(8) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{4r} \pi^{-2} \\
& + 1/2592 \ln(6) \ln(8) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{3r} \pi^{-2} - 52/27 \ln(6) \ln(8) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{2r} \pi^{-2} \\
& - 22/9 \ln(6) \ln(8) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{1r} \pi^{-2} - 8/3 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x \pi^{-4} \\
& + 5/9 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{8r} \pi^{-2} + 5/9 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{7r} \pi^{-2} \\
& + 1 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{6r} \pi^{-2} + 43/18 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{5r} \pi^{-2} \\
& + 43/18 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{4r} \pi^{-2} - 7/18 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{3r} \pi^{-2} \\
& - 7/18 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{2r} \pi^{-2} - 14/9 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{1r} \pi^{-2} \\
& + 5/10368 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{8r} \pi^{-2} + 2/9 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{7r} \pi^{-2} \\
& + 2/3 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{6r} \pi^{-2} + 13/36 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{5r} \pi^{-2} \\
& - 1/9 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{4r} \pi^{-2} - 1/9 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{3r} \pi^{-2} \\
& - 4/9 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{2r} \pi^{-2} - 1/432 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{1r} \pi^{-2} \\
& + 50/27 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{8r} \pi^{-2} + 28/3 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{7r} \pi^{-2} \\
& - 4/9 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{6r} \pi^{-2} + 17/27 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{5r} \pi^{-2} \\
& + 1/18 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{4r} \pi^{-2} + 5/18 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{3r} \pi^{-2} \\
& + 5/18 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{2r} \pi^{-2} + 10/9 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{1r} \pi^{-2} \\
& + 1/648 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{8r} \pi^{-2} - 104/9 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{7r} \pi^{-2} \\
& - 352/9 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{6r} \pi^{-2} + 16/9 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{5r} \pi^{-2} \\
& - 20/27 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{4r} \pi^{-2} - 4/3 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{3r} \pi^{-2} \\
& + 256/27 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{2r} \pi^{-2} + 256/9 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{1r} \pi^{-2} \\
& + 49/27648 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{8r} \pi^{-2} + 1/3456 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{7r} \pi^{-2} \\
& - 7/2592 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{6r} \pi^{-2} + 91/10368 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{5r} \pi^{-2} \\
& - 11/1728 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{4r} \pi^{-2} - 11/1728 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{3r} \pi^{-2} \\
& - 11/1728 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{2r} \pi^{-2} - 11/1728 \ln(8) F^{-4\sqrt{3}-1} \sin^2 \cos x L_{1r} \pi^{-2} \\
& + 4^{\sqrt{3}-1} \sin x \cos x \pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& + \text{mud} * \text{mpp}^2 * \text{mkp}^2 * (+ 5/1536 / (\text{mass}(1)) \ln(1)^2 F^{-4\sqrt{3}-1} \sin x \cos x \pi^{-4} \\
& + 5/1536 / (\text{mass}(2)) \ln(1)^2 F^{-4\sqrt{3}-1} \sin x \cos x \pi^{-4} - 199/20736 / (\text{mass}(3)) \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x \pi^{-4} \\
& + 173/10368 / (\text{mass}(3)) \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{8r} \pi^{-2} - 5/1944 / (\text{mass}(3)) \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{7r} \pi^{-2} \\
& - 524288/27 / (\text{mass}(3)) \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{6r} \pi^{-2} - \text{mass}(8) F^{-4\sqrt{3}-1} \sin x \cos x L_{5r} \pi^{-2} \\
& - 1048576/9 / (\text{mass}(3) - \text{mass}(8)) F^{-4\sqrt{3}-1} \sin x \cos x L_{4r} \pi^{-2} - 524288/3 / (\text{mass}(3) - \text{mass}(8)) F^{-4\sqrt{3}-1} \sin x \cos x L_{3r} \pi^{-2} \\
& + 256/9 \ln(8) F^{-4\sqrt{3}-1} \sin x \cos x L_{2r} \pi^{-2} + 49/27648 \ln(8) F^{-4\sqrt{3}-1} \sin x \cos x L_{1r} \pi^{-2} + 1048576/9 / (\text{mass}(3) - \text{mass}(8)) F^{-4\sqrt{3}-1} \sin x \cos x \pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& - \text{mass}(8) * F^{-4} * \sin^4 * L7r * L8r + 524288/3 / (\text{mass}(3) - \text{mass}(8)) * F^{-4} * \sin^4 * L7r^2 + 32/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * L8r * \pi^{-2} + 32/3 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * L7r * \pi^{-2} + 256/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * F^{-4} * \sin^2 * L8r * \pi^{-2} + 256/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * F^{-4} * \sin^2 * L7r * \pi^{-2} - 256/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * F^{-4} * \sin^4 * L8r * \pi^{-2} - 256/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * F^{-4} * \sin^4 * L7r * \pi^{-2} - 1/288 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} + 1/324 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(3) * F^{-4} * \sin^2 * \pi^{-4} - 5/324 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(3) * F^{-4} * \sin^4 * \pi^{-4} + 1/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(3) * F^{-4} * \sin^6 * \pi^{-4} + 1/96 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} - 1/36 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos * \pi^{-4} - 1/864 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(4) * F^{-4} * \pi^{-4} - 1/108 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(4) * F^{-4} * \sin^2 * \pi^{-4} + 1/108 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(4) * F^{-4} * \sin^4 * \pi^{-4} - 5/288 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} + 1/36 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos * \pi^{-4} + 1/864 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(6) * F^{-4} * \pi^{-4} - 1/108 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(6) * F^{-4} * \sin^2 * \pi^{-4} + 1/108 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(6) * F^{-4} * \sin^4 * \pi^{-4} - 1/864 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} - 5/324 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \sin^2 * \pi^{-4} + 1/36 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \sin^6 * \pi^{-4} + 512/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^2 * L8r * \pi^{-2} + 512/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^2 * L7r * \pi^{-2} - 512/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^4 * L8r * \pi^{-2} - 512/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^4 * L7r * \pi^{-2} - 1024/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^6 * L8r * \pi^{-2} - 1024/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^6 * L7r * \pi^{-2} - 7/1944 / (\text{mass}(3) - \text{mass}(8)) * \ln(3)^2 * F^{-4} * \sin^2 * \pi^{-4} - 17/1944 / (\text{mass}(3) - \text{mass}(8)) * \ln(3)^2 * F^{-4} * \sin^4 * \pi^{-4} + 4/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(3)^2 * F^{-4} * \sin^6 * \pi^{-4} - 1/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(3)^2 * F^{-4} * \sin^8 * \pi^{-4} + 7/1296 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} - 19/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos * \pi^{-4} + 1/54 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^5 * \cos * \pi^{-4} + 1/2304 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \pi^{-4} - 13/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sin^2 * \pi^{-4} + 1/72 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sin^4 * \pi^{-4} + 1/162 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sin^6 * \pi^{-4} - 5/2592 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} + 19/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos * \pi^{-4} - 1/54 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^5 * \cos * \pi^{-4} - 1/2304 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \pi^{-4} - 13/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sin^2 * \pi^{-4} + 1/72 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sin^4 * \pi^{-4} + 1/162 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sin^6 * \pi^{-4} - 17/972 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \sin^2 * \pi^{-4} + 25/972 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \sin^4 * \pi^{-4} - 4/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \sin^6 * \pi^{-4} + 2/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \sin^8 * \pi^{-4} - 32/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * L8r * \pi^{-2} - 32/3 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * L7r * \pi^{-2} + 128/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin^3*\cos^*L8r*\pi^{-2} + 128/3/(mass(3) - mass(8))*\ln(4)*F^{-4}*\sqrt{3}^{-} \\
& 1*\sin^3*\cos^*L7r*\pi^{-2} - 16/27/(mass(3) - mass(8))*\ln(4)*F^{-4}*L8r*\pi^{-2} \\
& - 16/9/(mass(3) - mass(8))*\ln(4)*F^{-4}*L7r*\pi^{-2} + 896/27/(mass(3) - \\
& mass(8))*\ln(4)*F^{-4}*\sin^2*L8r*\pi^{-2} + 896/9/(mass(3) - mass(8))*\ln(4)*F^{-} \\
& 4*\sin^2*L7r*\pi^{-2} - 896/27/(mass(3) - mass(8))*\ln(4)*F^{-4}*\sin^4*L8r*\pi^{-2} \\
& - 896/9/(mass(3) - mass(8))*\ln(4)*F^{-4}*\sin^4*L7r*\pi^{-2} - 1/384/(mass(3) \\
& - mass(8))*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} + 7/6912/(mass(3) - \\
& mass(8))*\ln(4)^2*F^{-4}*\pi^{-4} - 1/54/(mass(3) - mass(8))*\ln(4)^2*F^{-} \\
& 4*\sin^2*\pi^{-4} + 1/54/(mass(3) - mass(8))*\ln(4)^2*F^{-4}*\sin^4*\pi^{-4} \\
& + 1/576/(mass(3) - mass(8))*\ln(4)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} \\
& + 1/3456/(mass(3) - mass(8))*\ln(4)*\ln(6)*F^{-4}*\pi^{-4} - 1/54/(mass(3) - \\
& mass(8))*\ln(4)*\ln(6)*F^{-4}*\sin^2*\pi^{-4} + 1/54/(mass(3) - mass(8))*\ln(4)*\ln(6)*F^{-} \\
& 4*\sin^4*\pi^{-4} - 1/1296/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-} \\
& 1*\sin^*\cos^*\pi^{-4} + 7/648/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-} \\
& 1*\sin^3*\cos^*\pi^{-4} - 1/54/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-} \\
& 1*\sin^5*\cos^*\pi^{-4} + 7/20736/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-} \\
& 4*\pi^{-4} - 5/216/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4}*\sin^2*\pi^{-4} + \\
& 19/648/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4}*\sin^4*\pi^{-4} - 1/162/(mass(3) - \\
& mass(8))*\ln(4)*\ln(8)*F^{-4}*\sin^6*\pi^{-4} - 128/9/(mass(3) - mass(8))*\ln(6)*F^{-} \\
& 4*\sqrt{3}^{-1}*\sin^3*\cos^*L8r*\pi^{-2} - 128/3/(mass(3) - mass(8))*\ln(6)*F^{-} \\
& 4*\sqrt{3}^{-1}*\sin^3*\cos^*L7r*\pi^{-2} + 16/27/(mass(3) - mass(8))*\ln(6)*F^{-} \\
& 4*L8r*\pi^{-2} + 16/9/(mass(3) - mass(8))*\ln(6)*F^{-4}*L7r*\pi^{-2} + 896/27/(mass(3) \\
& - mass(8))*\ln(6)*F^{-4}*\sin^2*L8r*\pi^{-2} + 896/9/(mass(3) - mass(8))*\ln(6)*F^{-} \\
& 4*\sin^2*L7r*\pi^{-2} - 896/27/(mass(3) - mass(8))*\ln(6)*F^{-4}*\sin^4*L8r*\pi^{-2} \\
& - 896/9/(mass(3) - mass(8))*\ln(6)*F^{-4}*\sin^4*L7r*\pi^{-2} + 1/128/(mass(3) \\
& - mass(8))*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} - 1/768/(mass(3) - \\
& mass(8))*\ln(6)^2*F^{-4}*\pi^{-4} - 1/54/(mass(3) - mass(8))*\ln(6)^2*F^{-} \\
& 4*\sin^2*\pi^{-4} + 1/54/(mass(3) - mass(8))*\ln(6)^2*F^{-4}*\sin^4*\pi^{-4} + \\
& 5/2592/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} - \\
& 7/648/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^*\pi^{-4} \\
& + 1/54/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^5*\cos^*\pi^{-} \\
& 4 - 7/20736/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} - 5/216/(mass(3) - \\
& mass(8))*\ln(6)*\ln(8)*F^{-4}*\sin^2*\pi^{-4} + 19/648/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-} \\
& 4*\sin^4*\pi^{-4} - 1/162/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\sin^6*\pi^{-4} + \\
& 2560/81/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sin^2*L8r*\pi^{-2} + 2560/27/(mass(3) \\
& - mass(8))*\ln(8)*F^{-4}*\sin^2*L7r*\pi^{-2} - 3584/81/(mass(3) - mass(8))*\ln(8)*F^{-} \\
& 4*\sin^4*L8r*\pi^{-2} - 3584/27/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sin^4*L7r*\pi^{-} \\
& 2 + 1024/81/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sin^6*L8r*\pi^{-2} + 1024/27/(mass(3) \\
& - mass(8))*\ln(8)*F^{-4}*\sin^6*L7r*\pi^{-2} - 23/1944/(mass(3) - mass(8))*\ln(8)^2*F^{-} \\
& 4*\sin^2*\pi^{-4} + 31/1944/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*\sin^4*\pi^{-4} - \\
& 1/243/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*\sin^8*\pi^{-4} + 31/4096/(mass(4))*\ln(4)^2*F^{-} \\
& 4*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} - 5/12288/(mass(4))*\ln(4)^2*F^{-4}*\pi^{-4} + \\
& 5/6144/(mass(4))*\ln(4)^2*F^{-4}*\sin^2*\pi^{-4} + 31/4096/(mass(5))*\ln(4)^2*F^{-} \\
& 4*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} - 5/12288/(mass(5))*\ln(4)^2*F^{-4}*\pi^{-4} + \\
& 5/6144/(mass(5))*\ln(4)^2*F^{-4}*\sin^2*\pi^{-4} - 239/12288/(mass(6))*\ln(6)^2*F^{-} \\
& 4*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} + 3/4096/(mass(6))*\ln(6)^2*F^{-4}*\pi^{-4} +
\end{aligned}$$

$$\begin{aligned}
& 5/6144/(\text{mass}(6))^*\ln(6)^2*\text{F}^{-4}*\sin^2*\pi^{-4} - 239/12288/(\text{mass}(7))^*\ln(6)^2*\text{F}^{-4} \\
& 4*\sqrt{3}^{-1}*\sin^2*\cos^2*\pi^{-4} + 3/4096/(\text{mass}(7))^*\ln(6)^2*\text{F}^{-4}*\pi^{-4} + \\
& 5/6144/(\text{mass}(7))^*\ln(6)^2*\text{F}^{-4}*\sin^2*\pi^{-4} - 73/41472/(\text{mass}(8))^*\ln(8)^2*\text{F}^{-4} \\
& 4*\sqrt{3}^{-1}*\sin^2*\cos^2*\pi^{-4} - 7/20736/(\text{mass}(8))^*\ln(8)^2*\text{F}^{-4}*\pi^{-4} - \\
& 139/62208/(\text{mass}(8))^*\ln(8)^2*\text{F}^{-4}*\sin^2*\pi^{-4} + 5/1944/(\text{mass}(8))^*\ln(8)^2*\text{F}^{-4} \\
& 4*\sin^4*\pi^{-4}) \\
& + \text{mud}*\text{mpp}2^3 * (- 7/768/(\text{mass}(1))^*\ln(1)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*\pi^{-4} \\
& + 17/18432/(\text{mass}(1))^*\ln(1)^2*\text{F}^{-4}*\pi^{-4} - 1/1536/(\text{mass}(1))^*\ln(1)^2*\text{F}^{-4} \\
& 4*\sin^2*\pi^{-4} - 1/128/(\text{mass}(2))^*\ln(1)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*\pi^{-4} \\
& + 1/18432/(\text{mass}(2))^*\ln(1)^2*\text{F}^{-4}*\pi^{-4} + 1/1536/(\text{mass}(2))^*\ln(1)^2*\text{F}^{-4} \\
& 4*\sin^2*\pi^{-4} - 3031/124416/(\text{mass}(3))^*\ln(3)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*\pi^{-4} \\
& - 53/124416/(\text{mass}(3))^*\ln(3)^2*\text{F}^{-4}*\sin^2*\pi^{-4} - 25/23328/(\text{mass}(3))^*\ln(3)^2*\text{F}^{-4} \\
& 4*\sin^4*\pi^{-4} + 524288/81/(\text{mass}(3) - \text{mass}(8))^*\text{F}^{-4}*\sin^2*\text{L}8\text{r}^2 + \\
& 1048576/27/(\text{mass}(3) - \text{mass}(8))^*\text{F}^{-4}*\sin^2*\text{L}7\text{r}*\text{L}8\text{r} + 524288/9/(\text{mass}(3) \\
& - \text{mass}(8))^*\text{F}^{-4}*\sin^2*\text{L}7\text{r}^2 - 524288/81/(\text{mass}(3) - \text{mass}(8))^*\text{F}^{-4} \\
& 4*\sin^4*\text{L}8\text{r}^2 - 1048576/27/(\text{mass}(3) - \text{mass}(8))^*\text{F}^{-4}*\sin^4*\text{L}7\text{r}*\text{L}8\text{r} \\
& - 524288/9/(\text{mass}(3) - \text{mass}(8))^*\text{F}^{-4}*\sin^4*\text{L}7\text{r}^2 - 16/9/(\text{mass}(3) - \\
& \text{mass}(8))^*\ln(1)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*\text{L}8\text{r}*\pi^{-2} - 16/3/(\text{mass}(3) - \\
& \text{mass}(8))^*\ln(1)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*\text{L}7\text{r}*\pi^{-2} - 256/27/(\text{mass}(3) - \\
& \text{mass}(8))^*\ln(1)*\text{F}^{-4}*\sin^2*\text{L}8\text{r}*\pi^{-2} - 256/9/(\text{mass}(3) - \text{mass}(8))^*\ln(1)*\text{F}^{-4} \\
& 4*\sin^2*\text{L}7\text{r}*\pi^{-2} + 256/27/(\text{mass}(3) - \text{mass}(8))^*\ln(1)*\text{F}^{-4}*\sin^4*\text{L}8\text{r}*\pi^{-2} \\
& + 256/9/(\text{mass}(3) - \text{mass}(8))^*\ln(1)*\text{F}^{-4}*\sin^4*\text{L}7\text{r}*\pi^{-2} + 1/288/(\text{mass}(3) \\
& - \text{mass}(8))^*\ln(1)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*\pi^{-4} + 1/1728/(\text{mass}(3) - \\
& \text{mass}(8))^*\ln(1)*\ln(3)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*\pi^{-4} + 1/216/(\text{mass}(3) - \\
& \text{mass}(8))^*\ln(1)*\ln(3)*\text{F}^{-4}*\sin^2*\pi^{-4} - 1/648/(\text{mass}(3) - \text{mass}(8))^*\ln(1)*\ln(3)*\text{F}^{-4} \\
& 4*\sin^4*\pi^{-4} - 1/324/(\text{mass}(3) - \text{mass}(8))^*\ln(1)*\ln(3)*\text{F}^{-4}*\sin^6*\pi^{-4} \\
& - 1/1152/(\text{mass}(3) - \text{mass}(8))^*\ln(1)*\ln(4)*\text{F}^{-4}*\pi^{-4} + 1/108/(\text{mass}(3) - \\
& \text{mass}(8))^*\ln(1)*\ln(4)*\text{F}^{-4}*\sin^2*\pi^{-4} - 1/108/(\text{mass}(3) - \text{mass}(8))^*\ln(1)*\ln(4)*\text{F}^{-4} \\
& 4*\sin^4*\pi^{-4} - 1/288/(\text{mass}(3) - \text{mass}(8))^*\ln(1)*\ln(6)*\text{F}^{-4}*\sqrt{3}^{-1} \\
& 1*\sin^2*\cos^2*\pi^{-4} + 1/1152/(\text{mass}(3) - \text{mass}(8))^*\ln(1)*\ln(6)*\text{F}^{-4}*\pi^{-4} \\
& + 1/108/(\text{mass}(3) - \text{mass}(8))^*\ln(1)*\ln(6)*\text{F}^{-4}*\sin^2*\pi^{-4} - 1/108/(\text{mass}(3) - \\
& \text{mass}(8))^*\ln(1)*\ln(6)*\text{F}^{-4}*\sin^4*\pi^{-4} + 1/576/(\text{mass}(3) - \text{mass}(8))^*\ln(1)*\ln(8)*\text{F}^{-4} \\
& 4*\sqrt{3}^{-1}*\sin^2*\cos^2*\pi^{-4} + 5/648/(\text{mass}(3) - \text{mass}(8))^*\ln(1)*\ln(8)*\text{F}^{-4} \\
& 4*\sin^2*\pi^{-4} - 7/648/(\text{mass}(3) - \text{mass}(8))^*\ln(1)*\ln(8)*\text{F}^{-4}*\sin^4*\pi^{-4} + \\
& 1/324/(\text{mass}(3) - \text{mass}(8))^*\ln(1)*\ln(8)*\text{F}^{-4}*\sin^6*\pi^{-4} + 56/81/(\text{mass}(3) \\
& - \text{mass}(8))^*\ln(3)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*\text{L}8\text{r}*\pi^{-2} + 56/27/(\text{mass}(3) - \\
& \text{mass}(8))^*\ln(3)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*\text{L}7\text{r}*\pi^{-2} - 256/27/(\text{mass}(3) - \\
& \text{mass}(8))^*\ln(3)*\text{F}^{-4}*\sin^2*\text{L}8\text{r}*\pi^{-2} - 256/9/(\text{mass}(3) - \text{mass}(8))^*\ln(3)*\text{F}^{-4} \\
& 4*\sin^2*\text{L}7\text{r}*\pi^{-2} + 2816/243/(\text{mass}(3) - \text{mass}(8))^*\ln(3)*\text{F}^{-4}*\sin^4*\text{L}8\text{r}*\pi^{-2} \\
& - 2 + 2816/81/(\text{mass}(3) - \text{mass}(8))^*\ln(3)*\text{F}^{-4}*\sin^4*\text{L}7\text{r}*\pi^{-2} - 512/243/(\text{mass}(3) \\
& - \text{mass}(8))^*\ln(3)*\text{F}^{-4}*\sin^6*\text{L}8\text{r}*\pi^{-2} - 512/81/(\text{mass}(3) - \text{mass}(8))^*\ln(3)*\text{F}^{-4} \\
& 4*\sin^6*\text{L}7\text{r}*\pi^{-2} - 7/15552/(\text{mass}(3) - \text{mass}(8))^*\ln(3)^2*\text{F}^{-4}*\sqrt{3}^{-1} \\
& 1*\sin^2*\cos^2*\pi^{-4} + 19/5832/(\text{mass}(3) - \text{mass}(8))^*\ln(3)^2*\text{F}^{-4}*\sin^2*\pi^{-4} \\
& - 19/5832/(\text{mass}(3) - \text{mass}(8))^*\ln(3)^2*\text{F}^{-4}*\sin^4*\pi^{-4} - 1/729/(\text{mass}(3) - \\
& \text{mass}(8))^*\ln(3)^2*\text{F}^{-4}*\sin^6*\pi^{-4} + 1/729/(\text{mass}(3) - \text{mass}(8))^*\ln(3)^2*\text{F}^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^8*\pi^{-4} + 13/7776/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{\wedge}- \\
& 1^*\sin x*\cos x*\pi^{-4} - 5/1944/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{\wedge}- \\
& 1^*\sin x^3*\cos x*\pi^{-4} - 1/648/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{\wedge}- \\
& 1^*\sin x^5*\cos x*\pi^{-4} - 7/15552/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\pi^{-4} + \\
& 1/144/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} - 41/3888/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + 7/1944/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4} \\
& 4^*\sin x^6*\pi^{-4} - 7/1944/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{\wedge}- \\
& 1^*\sin x*\cos x*\pi^{-4} + 5/1944/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{\wedge}- \\
& 1^*\sin x^3*\cos x*\pi^{-4} + 1/648/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{\wedge}- \\
& 1^*\sin x^5*\cos x*\pi^{-4} + 7/15552/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\pi^{-4} + \\
& 1/144/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} - 41/3888/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + 7/1944/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4} \\
& 4^*\sin x^6*\pi^{-4} + 17/2916/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} \\
& - 25/2916/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 4/729/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 2/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4} \\
& 4^*\sin x^8*\pi^{-4} - 64/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{\wedge}-1^*\sin x*\cos x*L8r*\pi^{-2} \\
& - 2 - 64/9/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{\wedge}-1^*\sin x*\cos x*L7r*\pi^{-2} + \\
& 128/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{\wedge}-1^*\sin x^3*\cos x*L8r*\pi^{-2} \\
& + 128/9/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{\wedge}-1^*\sin x^3*\cos x*L7r*\pi^{-2} \\
& + 16/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*L8r*\pi^{-2} + 16/9/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(4)*F^{-4}*L7r*\pi^{-2} - 640/81/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sin x^2*L8r*\pi^{-2} \\
& + 640/81/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sin x^2*L7r*\pi^{-2} + 640/27/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(4)*F^{-4}*\sin x^4*L8r*\pi^{-2} + 640/27/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(4)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 1/432/(\text{mass}(3) - \text{mass}(8))*\ln(4)^2*F^{-4} \\
& 4^*\sqrt{3}^{\wedge}-1^*\sin x*\cos x*\pi^{-4} - 1/216/(\text{mass}(3) - \text{mass}(8))*\ln(4)^2*F^{-4}*\sqrt{3}^{\wedge}- \\
& 1^*\sin x^3*\cos x*\pi^{-4} - 1/6912/(\text{mass}(3) - \text{mass}(8))*\ln(4)^2*F^{-4}*\pi^{-4} + \\
& 1/648/(\text{mass}(3) - \text{mass}(8))*\ln(4)^2*F^{-4}*\sin x^2*\pi^{-4} - 1/648/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(4)^2*F^{-4}*\sin x^4*\pi^{-4} + 1/324/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(6)*F^{-4} \\
& 4^*\sin x^2*\pi^{-4} - 1/324/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} \\
& + 11/7776/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{\wedge}-1^*\sin x*\cos x*\pi^{-4} \\
& - 7/1944/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{\wedge}-1^*\sin x^3*\cos x*\pi^{-4} \\
& + 1/648/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{\wedge}-1^*\sin x^5*\cos x*\pi^{-4} \\
& - 5/15552/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} + 13/3888/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 1/3888/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(8)*F^{-4} \\
& 4^*\sin x^4*\pi^{-4} - 7/1944/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} \\
& + 112/27/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}*\sqrt{3}^{\wedge}-1^*\sin x*\cos x*L8r*\pi^{-2} \\
& + 112/9/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}*\sqrt{3}^{\wedge}-1^*\sin x*\cos x*L7r*\pi^{-2} - \\
& 128/27/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}*\sqrt{3}^{\wedge}-1^*\sin x^3*\cos x*L8r*\pi^{-2} \\
& - 128/9/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}*\sqrt{3}^{\wedge}-1^*\sin x^3*\cos x*L7r*\pi^{-2} \\
& - 16/27/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}*L8r*\pi^{-2} - 16/9/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(6)*F^{-4}*L7r*\pi^{-2} - 640/81/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4} \\
& 4^*\sin x^2*L8r*\pi^{-2} - 640/27/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}*\sin x^2*L7r*\pi^{-2} \\
& + 640/81/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}*\sin x^4*L8r*\pi^{-2} + 640/27/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(6)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 1/432/(\text{mass}(3) - \text{mass}(8))*\ln(6)^2*F^{-4} \\
& 4^*\sqrt{3}^{\wedge}-1^*\sin x*\cos x*\pi^{-4} + 1/216/(\text{mass}(3) - \text{mass}(8))*\ln(6)^2*F^{-4}*\sqrt{3}^{\wedge}- \\
& 1^*\sin x^3*\cos x*\pi^{-4} + 1/6912/(\text{mass}(3) - \text{mass}(8))*\ln(6)^2*F^{-4}*\pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& + 1/648/(\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sin^2 \pi^{-4} - 1/648/(\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sin^4 \pi^{-4} - 7/3888/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 \pi^{-4} + 7/1944/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 \pi^{-4} - 1/648/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^5 \cos^2 \pi^{-4} + 5/15552/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \pi^{-4} + 13/3888/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sin^2 \pi^{-4} + 1/3888/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sin^4 \pi^{-4} - 7/1944/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sin^6 \pi^{-4} - 56/81/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 L8r \pi^{-2} - 56/27/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 L7r \pi^{-2} - 1792/243/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^2 L8r \pi^{-2} - 1792/81/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^4 L8r \pi^{-2} + 1280/81/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^4 L7r \pi^{-2} + 512/243/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^6 L8r \pi^{-2} + 512/81/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^6 L7r \pi^{-2} + 7/15552/(\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 \pi^{-4} + 11/5832/(\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin^2 \pi^{-4} + 5/5832/(\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin^4 \pi^{-4} - 1/243/(\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin^6 \pi^{-4} + 1/729/(\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin^8 \pi^{-4} - 5/12288/(\text{mass}(4)) \ln(4)^2 F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 \pi^{-4} - 5/12288/(\text{mass}(5)) \ln(4)^2 F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 \pi^{-4} + 5/4096/(\text{mass}(6)) \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 \pi^{-4} + 5/4096/(\text{mass}(7)) \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 \pi^{-4} - 83/82944/(\text{mass}(8)) \ln(8)^2 F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 \pi^{-4} - 13/165888/(\text{mass}(8)) \ln(8)^2 F^{-4} \pi^{-4} - 377/746496/(\text{mass}(8)) \ln(8)^2 F^{-4} \sin^2 \pi^{-4} + 25/23328/(\text{mass}(8)) \ln(8)^2 F^{-4} \sin^4 \pi^{-4}) \\
& + \text{mud}^2 * (+ 2/3 \text{HH1b}(1,2,3, \text{plext.plext}) F^{-4} - 8/9 \text{HH1b}(1,2,3, \text{plext.plext}) F^{-4} \sin^2 + 8/9 \text{HH1b}(1,2,3, \text{plext.plext}) F^{-4} \sin^4 - 4/3 \text{HH1b}(1,2,8, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 + 8/9 \text{HH1b}(1,2,8, \text{plext.plext}) F^{-4} \sin^2 - 8/9 \text{HH1b}(1,2,8, \text{plext.plext}) F^{-4} \sin^4 + 4/3 \text{HH1b}(1,5,6, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 - 2/3 \text{HH1b}(1,5,6, \text{plext.plext}) F^{-4} + 2/3 \text{HH1b}(2,1,3, \text{plext.plext}) F^{-4} - 8/9 \text{HH1b}(2,1,3, \text{plext.plext}) F^{-4} \sin^2 + 8/9 \text{HH1b}(2,1,3, \text{plext.plext}) F^{-4} \sin^4 - 4/3 \text{HH1b}(2,1,8, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 + 8/9 \text{HH1b}(2,1,8, \text{plext.plext}) F^{-4} \sin^2 - 8/9 \text{HH1b}(2,1,8, \text{plext.plext}) F^{-4} \sin^4 + 4/3 \text{HH1b}(2,4,7, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 - 2/3 \text{HH1b}(2,4,7, \text{plext.plext}) F^{-4} - 10/9 \text{HH1b}(3,4,5, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 - 4/9 \text{HH1b}(3,4,5, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 + 1/18 \text{HH1b}(3,4,5, \text{plext.plext}) F^{-4} - 8/9 \text{HH1b}(3,4,5, \text{plext.plext}) F^{-4} \sin^2 - 4/9 \text{HH1b}(3,4,5, \text{plext.plext}) F^{-4} \sin^4 + 58/9 \text{HH1b}(3,6,7, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 + 4/9 \text{HH1b}(3,6,7, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 - 25/18 \text{HH1b}(3,6,7, \text{plext.plext}) F^{-4} - 8/9 \text{HH1b}(3,6,7, \text{plext.plext}) F^{-4} \sin^2 - 4/9 \text{HH1b}(3,6,7, \text{plext.plext}) F^{-4} \sin^4 + 4/3 \text{HH1b}(4,2,7, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 - 2/3 \text{HH1b}(4,2,7, \text{plext.plext}) F^{-4} - 10/9 \text{HH1b}(4,5,8, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 - 4/9 \text{HH1b}(4,5,8, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 + 1/18 \text{HH1b}(4,5,8, \text{plext.plext}) F^{-4} + 4/9 \text{HH1b}(4,5,8, \text{plext.plext}) F^{-4} \sin^2 - 4/9 \text{HH1b}(4,5,8, \text{plext.plext}) F^{-4} \sin^4 + 4/3 \text{HH1b}(5,1,6, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 - 2/3 \text{HH1b}(5,1,6, \text{plext.plext}) F^{-4} - 10/9 \text{HH1b}(5,4,8, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 - 4/9 \text{HH1b}(5,4,8, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 + 1/18 \text{HH1b}(5,4,8, \text{plext.plext}) F^{-4} + 4/9 \text{HH1b}(5,4,8, \text{plext.plext}) F^{-4})
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2 - 4/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-4}*\sin x^4 - 2/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 4/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x \\
& - 1/18^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-4} + 4/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 - 4/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-4}*\sin x^4 - 2/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 4/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x \\
& - 1/18^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-4} + 4/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 - 4/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-4}*\sin x^4 - 1/3^*\text{Hb}(1,2,3,\text{plext.plext})^*F^{-4} \\
& 4 + 4/9^*\text{Hb}(1,2,3,\text{plext.plext})^*F^{-4}*\sin x^2 - 4/9^*\text{Hb}(1,2,3,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^4 + 4/3^*\text{Hb}(1,2,8,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 4/9^*\text{Hb}(1,2,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 + 4/9^*\text{Hb}(1,2,8,\text{plext.plext})^*F^{-4}*\sin x^4 + 1/2^*\text{Hb}(1,5,6,\text{plext.plext})^*F^{-4} \\
& 4 + 1/2^*\text{Hb}(2,4,7,\text{plext.plext})^*F^{-4} + 1/12^*\text{Hb}(3,1,2,\text{plext.plext})^*F^{-4} \\
& - 1/9^*\text{Hb}(3,1,2,\text{plext.plext})^*F^{-4}*\sin x^2 + 1/9^*\text{Hb}(3,1,2,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^4 + 8/81^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4} - 32/243^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 + 64/81^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4}*\sin x^4 - 256/243^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^6 + 128/243^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4}*\sin x^8 + 1/54^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{-4} \\
& 4 + 16/81^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{-4}*\sin x^2 - 16/9^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^4 + 256/81^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{-4}*\sin x^6 - 128/81^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^8 + 13/18^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 1/18^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x^3*\cos x - 5/144^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4} + 73/108^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 + 1/54^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4}*\sin x^4 - 28/9^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 1/18^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x \\
& + 103/144^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4} + 73/108^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 + 1/54^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}*\sin x^4 + 128/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^4 - 256/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}*\sin x^6 + 128/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^8 + \text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 2/3^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x^3*\cos x + 1/36^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4} - 10/27^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 + 10/27^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}*\sin x^4 - 1/8^*\text{Hb}(6,1,5,\text{plext.plext})^*F^{-4} \\
& 4 + 1/3^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 2/3^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x^3*\cos x + 1/36^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4} - 10/27^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 + 10/27^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}*\sin x^4 - 1/8^*\text{Hb}(7,2,4,\text{plext.plext})^*F^{-4} \\
& 4 - 1/12^*\text{Hb}(8,1,2,\text{plext.plext})^*F^{-4} + 1/9^*\text{Hb}(8,1,2,\text{plext.plext})^*F^{-4}*\sin x^2 \\
& - 1/9^*\text{Hb}(8,1,2,\text{plext.plext})^*F^{-4}*\sin x^4 + 1/12^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x - 1/6^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x \\
& - 1/16^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4} - 1/18^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}*\sin x^2 \\
& + 1/18^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}*\sin x^4 - 1/12^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 1/6^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x \\
& + 1/48^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4} - 1/18^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}*\sin x^2 \\
& + 1/18^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}*\sin x^4 + 1/162^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4} \\
& 4 + 16/243^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4}*\sin x^2 - 16/27^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^4 + 256/243^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4}*\sin x^6 - 128/243^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^8 - \text{H21b}(1,5,6,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 1/8^*\text{H21b}(1,5,6,\text{plext.plext})^*F^{-4} \\
& 4 + 1/2^*\text{H21b}(1,5,6,\text{plext.plext})^*F^{-4}*\sin x^2 - \text{H21b}(2,4,7,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 1/8^*\text{H21b}(2,4,7,\text{plext.plext})^*F^{-4} + 1/2^*\text{H21b}(2,4,7,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 + 1/4^*\text{H21b}(3,1,2,\text{plext.plext})^*F^{-4} - 1/3^*\text{H21b}(3,1,2,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 + 1/3^*\text{H21b}(3,1,2,\text{plext.plext})^*F^{-4}*\sin x^4 + 1/2^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 1/2^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x
\end{aligned}$$

$$\begin{aligned}
& - 3/16 * H21b(3,4,5,plext.plext) * F^{-4} + 11/12 * H21b(3,4,5,plext.plext) * F^{-4} * \sin^2 - 1/6 * H21b(3,4,5,plext.plext) * F^{-4} * \sin^4 - 5 * H21b(3,6,7,plext.plext) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x - 1/2 * H21b(3,6,7,plext.plext) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x \\
& + 17/16 * H21b(3,6,7,plext.plext) * F^{-4} + 11/12 * H21b(3,6,7,plext.plext) * F^{-4} * \sin^2 - 1/6 * H21b(3,6,7,plext.plext) * F^{-4} * \sin^4 - 3/2 * H21b(4,2,7,plext.plext) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x + 3/8 * H21b(4,2,7,plext.plext) * F^{-4} - 3/2 * H21b(5,1,6,plext.plext) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x + 3/8 * H21b(5,1,6,plext.plext) * F^{-4} + H21b(6,1,5,plext.plext) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x - 1/8 * H21b(6,1,5,plext.plext) * F^{-4} + H21b(7,2,4,plext.plext) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x - 1/8 * H21b(7,2,4,plext.plext) * F^{-4} - H21b(8,1,2,plext.plext) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x + 1/4 * H21b(8,1,2,plext.plext) * F^{-4} + 1/3 * H21b(8,1,2,plext.plext) * F^{-4} * \sin^2 - 1/3 * H21b(8,1,2,plext.plext) * F^{-4} * \sin^4 - 1/2 * H21b(8,4,5,plext.plext) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x - 1/2 * H21b(8,4,5,plext.plext) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x \\
& + 3/16 * H21b(8,4,5,plext.plext) * F^{-4} + 1/12 * H21b(8,4,5,plext.plext) * F^{-4} * \sin^2 + 1/6 * H21b(8,4,5,plext.plext) * F^{-4} * \sin^4 + 1/2 * H21b(8,6,7,plext.plext) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x - 1/16 * H21b(8,6,7,plext.plext) * F^{-4} + 1/12 * H21b(8,6,7,plext.plext) * F^{-4} * \sin^2 + 1/6 * H21b(8,6,7,plext.plext) * F^{-4} * \sin^4) \\
& + \text{mud}^2 * \text{mkp2} * (+ 1231/165888 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * \pi^{-4} + 13/3888 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * \pi^{-2} - 176/27 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L8r * \pi^{-2} + 8/3 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L7r * \pi^{-2} - 28/3 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L6r * \pi^{-2} + 100/27 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L5r * \pi^{-2} + 4096/9 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L5r * L8r - 1024/3 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L5r * L7r + 2048/3 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L5r * L6r - 2560/9 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L5r^2 + 14/3 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L4r * \pi^{-2} - 1024/3 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L4r * L8r - 3072 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L4r * L7r + 1024 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L4r * L6r - 2048/3 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L4r * L5r - 512 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L4r^2 - 67/108 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L3r * \pi^{-2} - 23/9 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L2r * \pi^{-2} - 10/9 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * L1r * \pi^{-2} + 1024/3 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * CC33 + 256/3 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * CC32 - 384 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * CC21 - 128 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * CC20 - 128/3 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * CC18 + 512/9 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * CC17 + 640/3 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * CC16 + 256/3 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * CC15 + 512/9 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * CC14 + 512/3 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * CC13 + 1280/9 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos x * CC12 - 325/82944 * F^{-4} * \pi^{-4} - 221/248832 * F^{-4} * \pi^{-2} + 19/54 * F^{-4} * L8r * \pi^{-2} + 8/9 * F^{-4} * L7r * \pi^{-2} - 1/9 * F^{-4} * L6r * \pi^{-2} - 1/36 * F^{-4} * L5r * \pi^{-2} - 256/9 * F^{-4} * L5r * L8r + 512/3 * F^{-4} * L5r * L7r - 256/3 * F^{-4} * L5r * L6r + 128/3 * F^{-4} * L5r^2 + 1/18 * F^{-4} * L4r * \pi^{-2} - 512/3 * F^{-4} * L4r * L8r - 256 * F^{-4} * L4r * L7r + 256/3 * F^{-4} * L4r * L5r + 17/432 * F^{-4} * L3r * \pi^{-2} + 2/9 * F^{-4} * L2r * \pi^{-2} + 1/6 * F^{-4} * L1r * \pi^{-2} - 64/3 * F^{-4} * CC33 + 128/3 * F^{-4} * CC32 + 64 * F^{-4} * CC20 + 64/3 * F^{-4} * CC18 - 32/9 * F^{-4} * CC17 - 64/3 * F^{-4} * CC16 - 32/3 * F^{-4} * CC15 - 32/9 * F^{-4} * CC14 - 64/3 * F^{-4} * CC13 - 64/3 * F^{-4} * CC12 - 7567/331776 * F^{-4} * \sin^2 * \pi^{-4} - 1091/248832 * F^{-4} * \sin^2 * \pi^{-2} - 7/9 * F^{-4} * \sin^2 * L8r * \pi^{-2} - 16/9 * F^{-4} * \sin^2 * L7r * \pi^{-2} + 2/9 * F^{-4} * \sin^2 * L6r * \pi^{-2} + 5/54 * F^{-4} * \sin^2 * L5r * \pi^{-2} - 1024/3 * F^{-4} * \sin^2 * L5r * L8r - 1024/3 * F^{-4} * \sin^2 * L5r * L7r - 1024/3 * F^{-4} * \sin^2 * L5r * L6r + 1024/9 * F^{-4} * \sin^2 * L5r^2 - 1/9 * F^{-4} * \sin^2 * L4r * \pi^{-2} - 512 * F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4*\sinx^2*L4r*L8r - 512*F^{-4}*\sinx^2*L4r*L7r - 512*F^{-4}*\sinx^2*L4r*L6r \\
& + 1024/3*F^{-4}*\sinx^2*L4r*L5r + 256*F^{-4}*\sinx^2*L4r^2 + 19/72*F^{-4}*\sinx^2*L3r*\pi^{-2} + 17/18*F^{-4}*\sinx^2*L2r*\pi^{-2} + 4/9*F^{-4}*\sinx^2*L1r*\pi^{-2} \\
& + 128*F^{-4}*\sinx^2*CC33 + 128*F^{-4}*\sinx^2*CC32 + 128*F^{-4}*\sinx^2*CC31 \\
& + 192*F^{-4}*\sinx^2*CC21 + 192*F^{-4}*\sinx^2*CC20 + 192*F^{-4}*\sinx^2*CC19 \\
& - 128/3*F^{-4}*\sinx^2*CC18 - 128/3*F^{-4}*\sinx^2*CC17 - 64*F^{-4}*\sinx^2*CC16 \\
& - 128/3*F^{-4}*\sinx^2*CC15 - 128/3*F^{-4}*\sinx^2*CC14 - 256/3*F^{-4}*\sinx^2*CC13 \\
& - 512/9*F^{-4}*\sinx^2*CC12 - 77/5184*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} + \\
& + 136/27*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L8r*\pi^{-2} - 104/9*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& * \sinx*\cosx*L7r*\pi^{-2} + 152/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L6r*\pi^{-2} \\
& - 40/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L5r*\pi^{-2} - 64/9*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& * \sinx*\cosx*L4r*\pi^{-2} + 10/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L3r*\pi^{-2} + \\
& + 20/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L2r*\pi^{-2} + 20/3*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& * \sinx*\cosx*L1r*\pi^{-2} + 1/576*\ln(3)*F^{-4}*\pi^{-4} - 8/27*\ln(3)*F^{-4}*L8r*\pi^{-2} \\
& + 32/9*\ln(3)*F^{-4}*L7r*\pi^{-2} - 26/9*\ln(3)*F^{-4}*L6r*\pi^{-2} + 20/27*\ln(3)*F^{-4} \\
& * L5r*\pi^{-2} + 4/3*\ln(3)*F^{-4}*L4r*\pi^{-2} - 1/2*\ln(3)*F^{-4}*L3r*\pi^{-2} \\
& - \ln(3)*F^{-4}*L2r*\pi^{-2} - \ln(3)*F^{-4}*L1r*\pi^{-2} + 41/5184*\ln(3)*F^{-4} \\
& * \sinx^2*\pi^{-4} - 32/27*\ln(3)*F^{-4}*\sinx^2*L8r*\pi^{-2} + 16/3*\ln(3)*F^{-4} \\
& * \sinx^2*L7r*\pi^{-2} - 16/3*\ln(3)*F^{-4}*\sinx^2*L6r*\pi^{-2} + 40/27*\ln(3)*F^{-4} \\
& * \sinx^2*L5r*\pi^{-2} + 16/9*\ln(3)*F^{-4}*\sinx^2*L4r*\pi^{-2} - 4/3*\ln(3)*F^{-4} \\
& * \sinx^2*L3r*\pi^{-2} - 8/3*\ln(3)*F^{-4}*\sinx^2*L2r*\pi^{-2} - 8/3*\ln(3)*F^{-4} \\
& * \sinx^2*L1r*\pi^{-2} - 1/324*\ln(3)*F^{-4}*\sinx^4*\pi^{-4} - 112/9*\ln(3)*F^{-4} \\
& * \sinx^4*L8r*\pi^{-2} - 256/9*\ln(3)*F^{-4}*\sinx^4*L7r*\pi^{-2} - 32/9*\ln(3)*F^{-4} \\
& * \sinx^4*L6r*\pi^{-2} + 40/27*\ln(3)*F^{-4}*\sinx^4*L5r*\pi^{-2} + 8/3*\ln(3)*F^{-4} \\
& * \sinx^4*L4r*\pi^{-2} + 128/27*\ln(3)*F^{-4}*\sinx^4*L3r*\pi^{-2} + 128/9*\ln(3)*F^{-4} \\
& * \sinx^4*L2r*\pi^{-2} - 31/10368*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} + \\
& + 29/41472*\ln(3)^2*F^{-4}*\pi^{-4} + 1/5184*\ln(3)^2*F^{-4}*\sinx^2*\pi^{-4} + \\
& + 5/5184*\ln(3)^2*F^{-4}*\sinx^4*\pi^{-4} + 25/2592*\ln(3)^2*F^{-4}*\sinx^6*\pi^{-4} \\
& - 1/162*\ln(3)^2*F^{-4}*\sinx^8*\pi^{-4} - 5/1152*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sinx*\cosx*\pi^{-4} - 23/1728*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sinx^3*\cosx*\pi^{-4} + \\
& + 1/216*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sinx^5*\cosx*\pi^{-4} + 31/27648*\ln(3)*\ln(4)*F^{-4} \\
& * \pi^{-4} - 1/384*\ln(3)*\ln(4)*F^{-4}*\sinx^2*\pi^{-4} - 1/1728*\ln(3)*\ln(4)*F^{-4} \\
& * \sinx^4*\pi^{-4} - 1/216*\ln(3)*\ln(4)*F^{-4}*\sinx^6*\pi^{-4} + 41/1728*\ln(3)*\ln(6)*F^{-4} \\
& * \sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} + 23/1728*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sinx^3*\cosx*\pi^{-4} \\
& - 1/216*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sinx^5*\cosx*\pi^{-4} - 55/9216*\ln(3)*\ln(6)*F^{-4} \\
& * \pi^{-4} - 1/384*\ln(3)*\ln(6)*F^{-4}*\sinx^2*\pi^{-4} - 1/1728*\ln(3)*\ln(6)*F^{-4} \\
& * \sinx^4*\pi^{-4} - 1/216*\ln(3)*\ln(6)*F^{-4}*\sinx^6*\pi^{-4} - 7/5184*\ln(3)*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} - 13/20736*\ln(3)*\ln(8)*F^{-4}*\pi^{-4} + 1/2592*\ln(3)*\ln(8)*F^{-4} \\
& * \sinx^2*\pi^{-4} + 11/864*\ln(3)*\ln(8)*F^{-4}*\sinx^4*\pi^{-4} - 11/432*\ln(3)*\ln(8)*F^{-4} \\
& * \sinx^6*\pi^{-4} + 1/81*\ln(3)*\ln(8)*F^{-4}*\sinx^8*\pi^{-4} - 59/6912*\ln(4)*F^{-4} \\
& * \sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} - 22/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L8r*\pi^{-2} \\
& - 20/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L7r*\pi^{-2} + 1/9*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sinx*\cosx*L5r*\pi^{-2} + 2/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L4r*\pi^{-2} \\
& - 7/6*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L3r*\pi^{-2} - 2/3*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sinx*\cosx*L2r*\pi^{-2} - 8/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L1r*\pi^{-2} + \\
& + 1/216*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sinx^3*\cosx*\pi^{-4} + 32/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x^3*\cos x*L8r*\pi^{-2} + 32/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} \\
& + 289/82944*\ln(4)*F^{-4}*\pi^{-4} + 55/108*\ln(4)*F^{-4}*\pi^{-2} + 23/18*\ln(4)*F^{-4} \\
& *L7r*\pi^{-2} - 1/24*\ln(4)*F^{-4}*\pi^{-2} - 1/4*\ln(4)*F^{-4}*\pi^{-2} + 7/16*\ln(4)*F^{-4} \\
& *L3r*\pi^{-2} + 1/4*\ln(4)*F^{-4}*\pi^{-2} + \ln(4)*F^{-4}*\pi^{-2} - 13/2304*\ln(4)*F^{-4} \\
& *\sin x^2*\pi^{-4} - 1/2*\ln(4)*F^{-4}*\sin x^2*L8r*\pi^{-2} - \ln(4)*F^{-4}*\sin x^2*L7r \\
& *\pi^{-2} + 1/12*\ln(4)*F^{-4}*\sin x^2*L5r*\pi^{-2} + 1/2*\ln(4)*F^{-4}*\sin x^2*L4r \\
& *\pi^{-2} - 7/8*\ln(4)*F^{-4}*\sin x^2*L3r*\pi^{-2} - 1/2*\ln(4)*F^{-4}*\sin x^2*L2r \\
& *\pi^{-2} - 2*\ln(4)*F^{-4}*\sin x^2*L1r*\pi^{-2} + 1/288*\ln(4)^2*\pi^{-4} - 1/288*\ln(4)^2 \\
& *F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/288*\ln(4)^2*\pi^{-4} - 1/2304*\ln(4)^2*\pi^{-4} \\
& + 11/2304*\ln(4)^2*\pi^{-4}*\sin x^2*\pi^{-4} - 1/288*\ln(4)^2*\pi^{-4}*\sin x^4*\pi^{-4} - 1/288*\ln(4) \\
& *\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/18432*\ln(4)*\ln(6)*F^{-4}*\pi^{-4} - 61/9216 \\
& *\ln(4)*\ln(6)*F^{-4}*\pi^{-4} + 1/144*\ln(4)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} - 11/1728*\ln(4) \\
& *\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 5/576*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3 \\
& *\cos x*\pi^{-4} - 1/216*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 95/82944*\ln(4) \\
& *\ln(8)*F^{-4}*\pi^{-4} - 1/192*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 1/1728*\ln(4)*\ln(8) \\
& *F^{-4}*\sin x^4*\pi^{-4} + 1/216*\ln(4)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} + 1/32*\ln(6)*F^{-4} \\
& *\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 158/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} \\
& - 12*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - 8*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& *\sin x*\cos x*L6r*\pi^{-2} + 61/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} + 8/3 \\
& *\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + 19/3*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& *\sin x*\cos x*L3r*\pi^{-2} + 10/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} + 40/3 \\
& *\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - 1/216*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& *\sin x^3*\cos x*\pi^{-4} - 32/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - 32/3 \\
& *\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - 697/82944*\ln(6)*F^{-4}*\pi^{-4} \\
& - 109/108*\ln(6)*F^{-4}*\pi^{-2} - 65/18*\ln(6)*F^{-4}*\pi^{-2} - 7/72*\ln(6)*F^{-4} \\
& *L5r*\pi^{-2} + 5/12*\ln(6)*F^{-4}*\pi^{-2} - 47/48*\ln(6)*F^{-4}*\pi^{-2} - 5/12*\ln(6) \\
& *F^{-4}*\pi^{-2} - 5/3*\ln(6)*F^{-4}*\pi^{-2} - 5/3*\ln(6)*F^{-4}*\pi^{-2} - 13/2304*\ln(6) \\
& *F^{-4}*\sin x^2*\pi^{-4} - 1/2*\ln(6)*F^{-4}*\sin x^2*L8r*\pi^{-2} - \ln(6)*F^{-4}*\sin x^2 \\
& *L7r*\pi^{-2} + 1/12*\ln(6)*F^{-4}*\sin x^2*L5r*\pi^{-2} + 1/2*\ln(6)*F^{-4}*\sin x^2 \\
& *L4r*\pi^{-2} - 7/8*\ln(6)*F^{-4}*\sin x^2*L3r*\pi^{-2} - 1/2*\ln(6)*F^{-4}*\sin x^2 \\
& *L2r*\pi^{-2} - 2*\ln(6)*F^{-4}*\sin x^2*L1r*\pi^{-2} - 7/256*\ln(6)^2*\pi^{-4} - 1/288 \\
& *\ln(6)^2*\pi^{-4} + 1/288*\ln(6)^2*\pi^{-4} + 11/2304*\ln(6)^2*\pi^{-4} - 1/288*\ln(6)^2 \\
& *F^{-4}*\pi^{-4} - 1/288*\ln(6)^2*\pi^{-4}*\sin x^4*\pi^{-4} - 17/1152*\ln(6)*\ln(8)*F^{-4} \\
& *\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 5/576*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x \\
& *\pi^{-4} + 1/216*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 125/82944*\ln(6) \\
& *\ln(8)*F^{-4}*\pi^{-4} - 1/192*\ln(6)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 1/1728*\ln(6) \\
& *\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 1/216*\ln(6)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 5/1296 \\
& *\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 128/27*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x \\
& *\cos x*L8r*\pi^{-2} - 32/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - 8/3 \\
& *\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} + 16/9*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& *\sin x*\cos x*L5r*\pi^{-2} + 16/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + 2/9 \\
& *\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} + 2/9*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& *\sin x*\cos x*L2r*\pi^{-2} + 8/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - 1/5184 \\
& *\ln(8)*F^{-4}*\pi^{-4} - 4/9*\ln(8)*F^{-4}*\pi^{-2} - 8/9*\ln(8)*F^{-4}*\pi^{-2} + 2/9*\ln(8) \\
& *F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4*L6r*pi^{-2} + 2/27*ln(8)*F^{-4}*L5r*pi^{-2} - 2/9*ln(8)*F^{-4}*L4r*pi^{-2} \\
& + 1/18*ln(8)*F^{-4}*L3r*pi^{-2} + 1/18*ln(8)*F^{-4}*L2r*pi^{-2} + 2/9*ln(8)*F^{-4} \\
& *L1r*pi^{-2} - 1/324*ln(8)*F^{-4}*sinx^2*pi^{-4} - 208/27*ln(8)*F^{-4}*sinx^2*L8r*pi^{-2} \\
& - 128/9*ln(8)*F^{-4}*sinx^2*L7r*pi^{-2} - 32/9*ln(8)*F^{-4}*sinx^2*L6r*pi^{-2} \\
& + 40/27*ln(8)*F^{-4}*sinx^2*L5r*pi^{-2} + 8/3*ln(8)*F^{-4}*sinx^2*L4r*pi^{-2} \\
& + 1/324*ln(8)*F^{-4}*sinx^4*pi^{-4} + 112/9*ln(8)*F^{-4}*sinx^4*L8r*pi^{-2} + \\
& 256/9*ln(8)*F^{-4}*sinx^4*L7r*pi^{-2} + 32/9*ln(8)*F^{-4}*sinx^4*L6r*pi^{-2} \\
& - 40/27*ln(8)*F^{-4}*sinx^4*L5r*pi^{-2} - 8/3*ln(8)*F^{-4}*sinx^4*L4r*pi^{-2} - \\
& 128/27*ln(8)*F^{-4}*sinx^6*L8r*pi^{-2} - 128/9*ln(8)*F^{-4}*sinx^6*L7r*pi^{-2} + \\
& 1/384*ln(8)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} + 7/13824*ln(8)^2*F^{-4}*pi^{-4} \\
& + 7/1728*ln(8)^2*F^{-4}*sinx^2*pi^{-4} - 71/5184*ln(8)^2*F^{-4}*sinx^4*pi^{-4} + \\
& 41/2592*ln(8)^2*F^{-4}*sinx^6*pi^{-4} - 1/162*ln(8)^2*F^{-4}*sinx^8*pi^{-4}) \\
& + \text{mud}^2*\text{mkp}2^2 * (+ 637/10368/(mass(3))*ln(3)^2*F^{-4}*sqrt3^{-1} \\
& *sinx*cosx*pi^{-4} - 97/15552/(mass(3))*ln(3)^2*F^{-4}*pi^{-4} - 83/2592/(mass(3))*ln(3)^2*F^{-4} \\
& *sinx^2*pi^{-4} - 5/972/(mass(3))*ln(3)^2*F^{-4}*sinx^4*pi^{-4} - 7168/27/(mass(3) \\
& - mass(8))*F^{-4}*L8r^2 - 14336/9/(mass(3) - mass(8))*F^{-4}*L7r*L8r - \\
& 7168/3/(mass(3) - mass(8))*F^{-4}*L7r^2 + 131072/27/(mass(3) - mass(8))*F^{-4} \\
& *sinx^2*L8r^2 + 262144/9/(mass(3) - mass(8))*F^{-4}*sinx^2*L7r*L8r \\
& + 131072/3/(mass(3) - mass(8))*F^{-4}*sinx^2*L7r^2 - 131072/27/(mass(3) - \\
& mass(8))*F^{-4}*sinx^4*L8r^2 - 262144/9/(mass(3) - mass(8))*F^{-4}*sinx^4*L7r*L8r \\
& - 131072/3/(mass(3) - mass(8))*F^{-4}*sinx^4*L7r^2 - 56/27/(mass(3) \\
& - mass(8))*ln(3)*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} - 56/9/(mass(3) - \\
& mass(8))*ln(3)*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*pi^{-2} + 28/81/(mass(3) - \\
& mass(8))*ln(3)*F^{-4}*L8r*pi^{-2} + 28/27/(mass(3) - mass(8))*ln(3)*F^{-4} \\
& *L7r*pi^{-2} - 1024/81/(mass(3) - mass(8))*ln(3)*F^{-4}*sinx^4*L8r*pi^{-2} - \\
& 1024/27/(mass(3) - mass(8))*ln(3)*F^{-4}*sinx^4*L7r*pi^{-2} + 1024/81/(mass(3) \\
& - mass(8))*ln(3)*F^{-4}*sinx^6*L8r*pi^{-2} + 1024/27/(mass(3) - mass(8))*ln(3)*F^{-4} \\
& *sinx^6*L7r*pi^{-2} + 7/5184/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sqrt3^{-1} \\
& *sinx*cosx*pi^{-4} - 1/10368/(mass(3) - mass(8))*ln(3)^2*F^{-4}*pi^{-4} - \\
& 1/972/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sinx^2*pi^{-4} + 1/972/(mass(3) - \\
& mass(8))*ln(3)^2*F^{-4}*sinx^4*pi^{-4} + 2/243/(mass(3) - mass(8))*ln(3)^2*F^{-4} \\
& *sinx^6*pi^{-4} - 2/243/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sinx^8*pi^{-4} - \\
& 19/5184/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx*cosx* pi^{-4} \\
& - 1/81/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx^3*cosx* pi^{-4} \\
& + 1/27/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx^5*cosx* pi^{-4} \\
& + 7/6912/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*pi^{-4} + 1/81/(mass(3) - \\
& mass(8))*ln(3)*ln(4)*F^{-4}*sinx^4*pi^{-4} - 1/81/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4} \\
& *sinx^6*pi^{-4} + 5/648/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sqrt3^{-1} \\
& *sinx*cosx* pi^{-4} + 1/81/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sqrt3^{-1} \\
& *sinx^3*cosx* pi^{-4} - 1/27/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sqrt3^{-1} \\
& *sinx^5*cosx* pi^{-4} - 35/20736/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4} \\
& *pi^{-4} + 1/81/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sinx^4*pi^{-4} - \\
& 1/81/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sinx^6*pi^{-4} - 1/3888/(mass(3) - \\
& mass(8))*ln(3)*ln(8)*F^{-4}*pi^{-4} + 1/486/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4} \\
& *sinx^2*pi^{-4} + 7/486/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*sinx^4*pi^{-4} -
\end{aligned}$$

$$\begin{aligned}
& 8/243/(\text{mass}(3) - \text{mass}(8)) \ln(3) \ln(8) F^{-4} \sin^6 \pi^{-4} + 4/243/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(3) \ln(8) F^{-4} \sin^8 \pi^{-4} + 112/9/(\text{mass}(3) - \text{mass}(8)) \ln(4) F^{-4} \\
& \sqrt{3}^{-1} \sin^* \cos^* L8r^* \pi^{-2} + 112/3/(\text{mass}(3) - \text{mass}(8)) \ln(4) F^{-4} \\
& \sqrt{3}^{-1} \sin^* \cos^* L7r^* \pi^{-2} - 256/9/(\text{mass}(3) - \text{mass}(8)) \ln(4) F^{-4} \\
& \sqrt{3}^{-1} \sin^3 \cos^* L8r^* \pi^{-2} - 256/3/(\text{mass}(3) - \text{mass}(8)) \ln(4) F^{-4} \\
& \sqrt{3}^{-1} \sin^3 \cos^* L7r^* \pi^{-2} - 28/27/(\text{mass}(3) - \text{mass}(8)) \ln(4) F^{-4} \\
& L8r^* \pi^{-2} - 28/9/(\text{mass}(3) - \text{mass}(8)) \ln(4) F^{-4} L7r^* \pi^{-2} - 256/27/(\text{mass}(3) \\
& - \text{mass}(8)) \ln(4) F^{-4} \sin^2 L8r^* \pi^{-2} - 256/9/(\text{mass}(3) - \text{mass}(8)) \ln(4) F^{-4} \\
& \sin^2 L7r^* \pi^{-2} + 256/27/(\text{mass}(3) - \text{mass}(8)) \ln(4) F^{-4} \sin^4 L8r^* \pi^{-2} \\
& + 256/9/(\text{mass}(3) - \text{mass}(8)) \ln(4) F^{-4} \sin^4 L7r^* \pi^{-2} - 11/1152/(\text{mass}(3) \\
& - \text{mass}(8)) \ln(4)^2 F^{-4} \sqrt{3}^{-1} \sin^* \cos^* \pi^{-4} + 1/36/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(4)^2 F^{-4} \sqrt{3}^{-1} \sin^3 \cos^* \pi^{-4} + 5/2304/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(4)^2 F^{-4} \pi^{-4} - 23/3456/(\text{mass}(3) - \text{mass}(8)) \ln(4)^2 F^{-4} \\
& \sin^2 \pi^{-4} + 1/108/(\text{mass}(3) - \text{mass}(8)) \ln(4)^2 F^{-4} \sin^4 \pi^{-4} - \\
& 1/192/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* \pi^{-4} - \\
& 1/432/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(6) F^{-4} \pi^{-4} + 55/1728/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(4) \ln(6) F^{-4} \sin^2 \pi^{-4} - 1/27/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(6) F^{-4} \\
& \sin^4 \pi^{-4} - 65/5184/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \\
& \sin^* \cos^* \pi^{-4} + 4/81/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \\
& \sin^3 \cos^* \pi^{-4} - 1/27/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \\
& \sin^5 \cos^* \pi^{-4} + 7/20736/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \\
& \pi^{-4} + 1/81/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sin^2 \pi^{-4} - \\
& 2/81/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sin^4 \pi^{-4} + 1/81/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sin^6 \pi^{-4} - 112/9/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \\
& \sqrt{3}^{-1} \sin^* \cos^* L8r^* \pi^{-2} - 112/3/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \\
& \sqrt{3}^{-1} \sin^* \cos^* L7r^* \pi^{-2} + 256/9/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \\
& \sqrt{3}^{-1} \sin^3 \cos^* L8r^* \pi^{-2} + 256/3/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \\
& \sqrt{3}^{-1} \sin^3 \cos^* L7r^* \pi^{-2} + 56/27/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \\
& L8r^* \pi^{-2} + 56/9/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} L7r^* \pi^{-2} - 256/27/(\text{mass}(3) \\
& - \text{mass}(8)) \ln(6) F^{-4} \sin^2 L8r^* \pi^{-2} - 256/9/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \\
& \sin^2 L7r^* \pi^{-2} + 256/27/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sin^4 L8r^* \pi^{-2} \\
& + 256/9/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sin^4 L7r^* \pi^{-2} + 17/1152/(\text{mass}(3) \\
& - \text{mass}(8)) \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin^* \cos^* \pi^{-4} - 1/36/(\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \\
& \sqrt{3}^{-1} \sin^3 \cos^* \pi^{-4} - 1/1152/(\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \\
& \pi^{-4} - 23/3456/(\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sin^2 \pi^{-4} + \\
& 1/108/(\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sin^4 \pi^{-4} + 11/1296/(\text{mass}(3) \\
& - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* \pi^{-4} - 4/81/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^3 \cos^* \pi^{-4} + 1/27/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^5 \cos^* \pi^{-4} - 7/6912/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(6) \ln(8) F^{-4} \pi^{-4} + 1/81/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \\
& \sin^2 \pi^{-4} - 2/81/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sin^4 \pi^{-4} + \\
& 1/81/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sin^6 \pi^{-4} + 56/27/(\text{mass}(3) \\
& - \text{mass}(8)) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* L8r^* \pi^{-2} + 56/9/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* L7r^* \pi^{-2} + 28/81/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(8) F^{-4} L8r^* \pi^{-2} + 28/27/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \\
& L7r^* \pi^{-2} - 1024/81/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^2 L8r^* \pi^{-2} -
\end{aligned}$$

$$\begin{aligned}
& 1024/27/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^2*L7r*pi^{-2} + 2048/81/(mass(3) \\
& - mass(8))*ln(8)*F^{-4}*sinx^4*L8r*pi^{-2} + 2048/27/(mass(3) - mass(8))*ln(8)*F^{-4} \\
& *sinx^4*L7r*pi^{-2} - 1024/81/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^6*L8r*pi^{-2} \\
& - 1024/27/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^6*L7r*pi^{-2} - 7/5184/(mass(3) \\
& - mass(8))*ln(8)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 1/10368/(mass(3) - \\
& mass(8))*ln(8)^2*F^{-4}*pi^{-4} + 7/972/(mass(3) - mass(8))*ln(8)^2*F^{-4} \\
& *sinx^2*pi^{-4} - 23/972/(mass(3) - mass(8))*ln(8)^2*F^{-4}*sinx^4*pi^{-4} \\
& + 2/81/(mass(3) - mass(8))*ln(8)^2*F^{-4}*sinx^6*pi^{-4} - 2/243/(mass(3) \\
& - mass(8))*ln(8)^2*F^{-4}*sinx^8*pi^{-4} - 35/2304/(mass(4))*ln(4)^2*F^{-4} \\
& *sqrt3^{-1}*sinx*cosx*pi^{-4} + 43/12288/(mass(4))*ln(4)^2*F^{-4}*pi^{-4} - \\
& 25/3072/(mass(4))*ln(4)^2*F^{-4}*sinx^2*pi^{-4} - 5/576/(mass(5))*ln(4)^2*F^{-4} \\
& *sqrt3^{-1}*sinx*cosx*pi^{-4} + 19/12288/(mass(5))*ln(4)^2*F^{-4}*pi^{-4} - \\
& 13/3072/(mass(5))*ln(4)^2*F^{-4}*sinx^2*pi^{-4} + 401/9216/(mass(6))*ln(6)^2*F^{-4} \\
& *sqrt3^{-1}*sinx*cosx*pi^{-4} - 133/12288/(mass(6))*ln(6)^2*F^{-4}*pi^{-4} - \\
& 25/3072/(mass(6))*ln(6)^2*F^{-4}*sinx^2*pi^{-4} - 19/9216/(mass(7))*ln(6)^2*F^{-4} \\
& *sqrt3^{-1}*sinx*cosx*pi^{-4} + 11/12288/(mass(7))*ln(6)^2*F^{-4}*pi^{-4} - \\
& 13/3072/(mass(7))*ln(6)^2*F^{-4}*sinx^2*pi^{-4} - 17/2304/(mass(8))*ln(8)^2*F^{-4} \\
& *sqrt3^{-1}*sinx*cosx*pi^{-4} - 73/124416/(mass(8))*ln(8)^2*F^{-4}*pi^{-4} - \\
& 5/972/(mass(8))*ln(8)^2*F^{-4}*sinx^2*pi^{-4} + 5/972/(mass(8))*ln(8)^2*F^{-4} \\
& *sinx^4*pi^{-4}) \\
& + mud^2*mp2 * (- 65/82944*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 155/497664*F^{-4} \\
& *sqrt3^{-1}*sinx*cosx*pi^{-2} - 19/27*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} - \\
& 14/3*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*pi^{-2} + 1/3*F^{-4}*sqrt3^{-1}*sinx*cosx*L6r*pi^{-2} \\
& - 23/54*F^{-4}*sqrt3^{-1}*sinx*cosx*L5r*pi^{-2} - 1792/9*F^{-4}*sqrt3^{-1} \\
& *sinx*cosx*L5r*L8r - 1280/3*F^{-4}*sqrt3^{-1}*sinx*cosx*L5r*L7r + 1024/3*F^{-4} \\
& *sqrt3^{-1}*sinx*cosx*L5r*L6r + 256/9*F^{-4}*sqrt3^{-1}*sinx*cosx*L5r^2 - \\
& 1/6*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*pi^{-2} + 1792/3*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*L8r \\
& + 768*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*L7r + 512*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*L6r \\
& - 1024/3*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*L5r - 256*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r^2 \\
& + 103/432*F^{-4}*sqrt3^{-1}*sinx*cosx*L3r*pi^{-2} + 13/18*F^{-4}*sqrt3^{-1} \\
& *sinx*cosx*L2r*pi^{-2} + 1/9*F^{-4}*sqrt3^{-1}*sinx*cosx*L1r*pi^{-2} + 128/3*F^{-4} \\
& *sqrt3^{-1}*sinx*cosx*CC33 - 448/3*F^{-4}*sqrt3^{-1}*sinx*cosx*CC32 + \\
& 64*F^{-4}*sqrt3^{-1}*sinx*cosx*CC31 - 192*F^{-4}*sqrt3^{-1}*sinx*cosx*CC21 \\
& + 96*F^{-4}*sqrt3^{-1}*sinx*cosx*CC19 - 160/3*F^{-4}*sqrt3^{-1}*sinx*cosx*CC18 - \\
& 224/9*F^{-4}*sqrt3^{-1}*sinx*cosx*CC17 - 448/3*F^{-4}*sqrt3^{-1}*sinx*cosx*CC16 \\
& + 128/3*F^{-4}*sqrt3^{-1}*sinx*cosx*CC15 - 224/9*F^{-4}*sqrt3^{-1}*sinx*cosx*CC14 \\
& + 256/3*F^{-4}*sqrt3^{-1}*sinx*cosx*CC13 - 128/9*F^{-4}*sqrt3^{-1}*sinx*cosx*CC12 \\
& - 10529/1327104*F^{-4}*pi^{-4} - 349/248832*F^{-4}*pi^{-2} - 23/27*F^{-4}*L8r*pi^{-2} \\
& - 5/3*F^{-4}*L7r*pi^{-2} - 1/6*F^{-4}*L6r*pi^{-2} + 4/27*F^{-4}*L5r*pi^{-2} \\
& - 1280/9*F^{-4}*L5r*L8r - 896/3*F^{-4}*L5r*L7r - 128/3*F^{-4}*L5r*L6r \\
& + 64/3*F^{-4}*L5r^2 + 1/12*F^{-4}*L4r*pi^{-2} - 256/3*F^{-4}*L4r*L8r - \\
& 128*F^{-4}*L4r*L7r - 128*F^{-4}*L4r*L6r + 128/3*F^{-4}*L4r*L5r + 64*F^{-4} \\
& *L4r^2 + 29/288*F^{-4}*L3r*pi^{-2} + 7/24*F^{-4}*L2r*pi^{-2} + 1/12*F^{-4} \\
& *L1r*pi^{-2} + 256/3*F^{-4}*CC33 + 64/3*F^{-4}*CC32 + 64*F^{-4}*CC31 + \\
& 48*F^{-4}*CC21 + 48*F^{-4}*CC20 + 96*F^{-4}*CC19 - 112/3*F^{-4}*CC18 -
\end{aligned}$$

$$\begin{aligned}
& 160/9F^{-4}CC17 - 80/3F^{-4}CC16 - 16/3F^{-4}CC15 - 160/9F^{-4}CC14 \\
& - 32/3F^{-4}CC13 - 32/3F^{-4}CC12 + 103/12288F^{-4}\sin x^2\pi^{-4} + \\
& 83/55296F^{-4}\sin x^2\pi^{-2} + 26/27F^{-4}\sin x^2L8r\pi^{-2} + 14/9F^{-4}\sin x^2L7r\pi^{-2} \\
& + 5/9F^{-4}\sin x^2L6r\pi^{-2} - 2/9F^{-4}\sin x^2L5r\pi^{-2} + 1280/9F^{-4}\sin x^2L5rL8r \\
& + 256F^{-4}\sin x^2L5rL7r - 256/9F^{-4}\sin x^2L5r^2 - 5/18F^{-4}\sin x^2L4r\pi^{-2} + 256/3F^{-4}\sin x^2L4rL8r \\
& + 256F^{-4}\sin x^2L4rL7r - 47/432F^{-4}\sin x^2L3r\pi^{-2} - 1/3F^{-4}\sin x^2L2r\pi^{-2} \\
& - 1/9F^{-4}\sin x^2L1r\pi^{-2} - 256/3F^{-4}\sin x^2CC33 - 64/3F^{-4}\sin x^2CC32 \\
& - 64F^{-4}\sin x^2CC31 - 64F^{-4}\sin x^2CC20 - 96F^{-4}\sin x^2CC19 + 32F^{-4}\sin x^2CC18 \\
& + 160/9F^{-4}\sin x^2CC17 + 128/3F^{-4}\sin x^2CC16 + 160/9F^{-4}\sin x^2CC14 + 128/9F^{-4}\sin x^2CC12 \\
& + 1/768\ln(1)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} + 5/27648\ln(1)F^{-4}\pi^{-4} \\
& - 1/9\ln(1)F^{-4}L8r\pi^{-2} - 1/3\ln(1)F^{-4}L7r\pi^{-2} + 1/1296\ln(1)F^{-4}\sin x^2\pi^{-4} \\
& + 16/27\ln(1)F^{-4}\sin x^2L8r\pi^{-2} + 16/9\ln(1)F^{-4}\sin x^2L7r\pi^{-2} \\
& - 1/1296\ln(1)F^{-4}\sin x^4\pi^{-4} - 16/27\ln(1)F^{-4}\sin x^4L8r\pi^{-2} \\
& - 16/9\ln(1)F^{-4}\sin x^4L7r\pi^{-2} - 1/3456\ln(1)\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} \\
& - 1/768\ln(1)\ln(3)F^{-4}\pi^{-4} + 13/5184\ln(1)\ln(3)F^{-4}\sin x^2\pi^{-4} \\
& - 7/1728\ln(1)\ln(3)F^{-4}\sin x^4\pi^{-4} + 1/648\ln(1)\ln(3)F^{-4}\sin x^6\pi^{-4} \\
& + 1/1152\ln(1)\ln(4)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} - 1/576\ln(1)\ln(4)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x\pi^{-4} \\
& - 1/1728\ln(1)\ln(4)F^{-4}\sin x^2\pi^{-4} + 1/1728\ln(1)\ln(4)F^{-4}\sin x^4\pi^{-4} \\
& - 11/2304\ln(1)\ln(6)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} + 1/576\ln(1)\ln(6)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x\pi^{-4} \\
& - 7/9216\ln(1)\ln(6)F^{-4}\pi^{-4} - 1/1728\ln(1)\ln(6)F^{-4}\sin x^2\pi^{-4} \\
& + 1/1728\ln(1)\ln(6)F^{-4}\sin x^4\pi^{-4} - 1/432\ln(1)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} \\
& + 1/6912\ln(1)\ln(8)F^{-4}\pi^{-4} - 17/5184\ln(1)\ln(8)F^{-4}\sin x^2\pi^{-4} \\
& + 25/5184\ln(1)\ln(8)F^{-4}\sin x^4\pi^{-4} - 1/648\ln(1)\ln(8)F^{-4}\sin x^6\pi^{-4} \\
& + 53/20736\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} - 73/27\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL8r\pi^{-2} \\
& - 43/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL7r\pi^{-2} + 22/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL6r\pi^{-2} \\
& + 5/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL5r\pi^{-2} - 43/18\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL4r\pi^{-2} \\
& - 1/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL3r\pi^{-2} - 2/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL2r\pi^{-2} \\
& - 2/3\ln(3)F^{-4}\pi^{-4} - 103/27\ln(3)F^{-4}L8r\pi^{-2} - 121/18\ln(3)F^{-4}L7r\pi^{-2} \\
& - 13/9\ln(3)F^{-4}L6r\pi^{-2} + 85/108\ln(3)F^{-4}L5r\pi^{-2} + 2/3\ln(3)F^{-4}L4r\pi^{-2} \\
& - 1/4\ln(3)F^{-4}L3r\pi^{-2} - 1/2\ln(3)F^{-4}L2r\pi^{-2} - 1/768\ln(3)F^{-4}\sin x^2\pi^{-4} \\
& + 13/9\ln(3)F^{-4}\sin x^2L8r\pi^{-2} - 11/9\ln(3)F^{-4}\sin x^2L7r\pi^{-2} \\
& + 14/9\ln(3)F^{-4}\sin x^2L6r\pi^{-2} - 25/27\ln(3)F^{-4}\sin x^2L5r\pi^{-2} \\
& - 11/18\ln(3)F^{-4}\sin x^2L4r\pi^{-2} + 1/3\ln(3)F^{-4}\sin x^2L3r\pi^{-2} \\
& + 2/3\ln(3)F^{-4}\sin x^2L2r\pi^{-2} + 2/3\ln(3)F^{-4}\sin x^2L1r\pi^{-2} + 64/9\ln(3)F^{-4}\sin x^4L8r\pi^{-2} \\
& + 64/3\ln(3)F^{-4}\sin x^4L7r\pi^{-2} - 128/27\ln(3)F^{-4}\sin x^6L8r\pi^{-2} \\
& - 128/9\ln(3)F^{-4}\sin x^6L7r\pi^{-2} + 11/82944\ln(3)^2F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} \\
& + 1/648\ln(3)^2F^{-4}\pi^{-4} - 17/41472\ln(3)^2F^{-4}\sin x^2\pi^{-4} - 5/3456\ln(3)^2F^{-4}\sin x^4\pi^{-4} \\
& - 5/1728\ln(3)^2F^{-4}\sin x^6\pi^{-4} + 1/324\ln(3)^2F^{-4}\sin x^8\pi^{-4} + 1/2304\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} +
\end{aligned}$$

$$\begin{aligned}
& 1/128*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/432*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 7/13824*\ln(3)*\ln(4)*F^{-4}*\pi^{-4} + 29/10368*\ln(3)*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} - 17/3456*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + 5/1296*\ln(3)*\ln(4)*F^{-4}*\sin x^6*\pi^{-4} \\
& + 7/2304*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/128*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/432*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 13/13824*\ln(3)*\ln(6)*F^{-4}*\pi^{-4} + 29/10368*\ln(3)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} - 17/3456*\ln(3)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + 5/1296*\ln(3)*\ln(6)*F^{-4}*\sin x^6*\pi^{-4} \\
& + 11/41472*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 7/20736*\ln(3)*\ln(8)*F^{-4}*\pi^{-4} + 1/1728*\ln(3)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 11/1728*\ln(3)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 31/2592*\ln(3)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 1/162*\ln(3)*\ln(8)*F^{-4}*\sin x^8*\pi^{-4} + 229/55296*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 2*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} \\
& + 14/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + \ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} - 2/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} - 13/12*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + 25/48*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} + 1/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} + 4/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - 1/288*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 8/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - 8*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - 151/331776*\ln(4)*F^{-4}*\pi^{-4} - 43/108*\ln(4)*F^{-4}*\pi^{-4} - 11/18*\ln(4)*F^{-4}*\pi^{-4} - 11/18*\ln(4)*F^{-4}*\pi^{-4} - 1/2*\ln(4)*F^{-4}*\pi^{-4} - 11/96*\ln(4)*F^{-4}*\pi^{-4} - 11/12*\ln(4)*F^{-4}*\pi^{-4} - 1/12*\ln(4)*F^{-4}*\pi^{-4} - 1/3*\ln(4)*F^{-4}*\pi^{-4} + 23/165888*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} + 11/54*\ln(4)*F^{-4}*\sin x^2*L8r*\pi^{-2} - 5/9*\ln(4)*F^{-4}*\sin x^2*L7r*\pi^{-2} + \ln(4)*F^{-4}*\sin x^2*L6r*\pi^{-2} - 7/36*\ln(4)*F^{-4}*\sin x^2*L5r*\pi^{-2} - 11/12*\ln(4)*F^{-4}*\sin x^2*L4r*\pi^{-2} + 11/48*\ln(4)*F^{-4}*\sin x^2*L3r*\pi^{-2} + 1/6*\ln(4)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 2/3*\ln(4)*F^{-4}*\sin x^2*L1r*\pi^{-2} + 1/2592*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + 8/27*\ln(4)*F^{-4}*\sin x^4*L8r*\pi^{-2} + 8/9*\ln(4)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 13/6144*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/288*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 13/110592*\ln(4)^2*F^{-4}*\pi^{-4} + 1/18432*\ln(4)^2*F^{-4}*\sin x^2*\pi^{-4} + 7/9216*\ln(4)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/2304*\ln(4)*\ln(6)*F^{-4}*\pi^{-4} + 7/3456*\ln(4)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} - 1/864*\ln(4)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + 1/384*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 5/1152*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/432*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 1/2592*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} - 5/20736*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 47/10368*\ln(4)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 5/1296*\ln(4)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} + 23/18432*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 2*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 2*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - 7*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} - 2/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} + 25/4*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} - 21/16*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} - \ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} - 4*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + 1/288*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 8/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} + 8*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - 203/331776*\ln(6)*F^{-4}*\pi^{-4} + 1/108*\ln(6)*F^{-4}*\pi^{-4} + 23/18*\ln(6)*F^{-4}*\pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4*L7r*pi^{-2} - 1/2*ln(6)*F^{-4}*L6r*pi^{-2} + 5/24*ln(6)*F^{-4}*L5r*pi^{-2} + \\
& 5/8*ln(6)*F^{-4}*L4r*pi^{-2} - 9/32*ln(6)*F^{-4}*L3r*pi^{-2} - 1/4*ln(6)*F^{-4} \\
& 4*L2r*pi^{-2} - ln(6)*F^{-4}*L1r*pi^{-2} + 23/165888*ln(6)*F^{-4}*sinx^2*pi^{-4} \\
& + 11/54*ln(6)*F^{-4}*sinx^2*L8r*pi^{-2} - 5/9*ln(6)*F^{-4}*sinx^2*L7r*pi^{-2} \\
& + ln(6)*F^{-4}*sinx^2*L6r*pi^{-2} - 7/36*ln(6)*F^{-4}*sinx^2*L5r*pi^{-2} - \\
& 11/12*ln(6)*F^{-4}*sinx^2*L4r*pi^{-2} + 11/48*ln(6)*F^{-4}*sinx^2*L3r*pi^{-2} \\
& + 1/6*ln(6)*F^{-4}*sinx^2*L2r*pi^{-2} + 2/3*ln(6)*F^{-4}*sinx^2*L1r*pi^{-2} \\
& + 1/2592*ln(6)*F^{-4}*sinx^4*pi^{-4} + 8/27*ln(6)*F^{-4}*sinx^4*L8r*pi^{-2} \\
& + 8/9*ln(6)*F^{-4}*sinx^4*L7r*pi^{-2} + 97/18432*ln(6)^2*F^{-4}*sqrt3^{-1} \\
& *sinx*cosx*pi^{-4} - 1/288*ln(6)^2*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} - \\
& 43/110592*ln(6)^2*F^{-4}*pi^{-4} + 1/18432*ln(6)^2*F^{-4}*sinx^2*pi^{-4} + \\
& 5/1152*ln(6)*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} + 5/1152*ln(6)*ln(8)*F^{-4} \\
& 4*sqrt3^{-1}*sinx^3*cosx*pi^{-4} - 1/432*ln(6)*ln(8)*F^{-4}*sqrt3^{-1}*sinx^5*cosx*pi^{-4} \\
& - 5/10368*ln(6)*ln(8)*F^{-4}*pi^{-4} - 5/20736*ln(6)*ln(8)*F^{-4}*sinx^2*pi^{-4} \\
& + 47/10368*ln(6)*ln(8)*F^{-4}*sinx^4*pi^{-4} - 5/1296*ln(6)*ln(8)*F^{-4} \\
& 4*sinx^6*pi^{-4} + 11/5184*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} + 11/27*ln(8)*F^{-4} \\
& 4*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} + 5/9*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*pi^{-2} \\
& - 2*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*L6r*pi^{-2} - 1/9*ln(8)*F^{-4}*sqrt3^{-1} \\
& *sinx*cosx*L5r*pi^{-2} + 37/18*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*pi^{-2} \\
& - 5/9*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*L3r*pi^{-2} - 5/9*ln(8)*F^{-4}*sqrt3^{-1} \\
& *sinx*cosx*L2r*pi^{-2} - 20/9*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*L1r*pi^{-2} + \\
& 1/10368*ln(8)*F^{-4}*pi^{-4} + 7/18*ln(8)*F^{-4}*L7r*pi^{-2} - 5/9*ln(8)*F^{-4} \\
& 4*L6r*pi^{-2} + 7/108*ln(8)*F^{-4}*L5r*pi^{-2} + 1/2*ln(8)*F^{-4}*L4r*pi^{-2} \\
& - 1/12*ln(8)*F^{-4}*L3r*pi^{-2} - 1/12*ln(8)*F^{-4}*L2r*pi^{-2} - 1/3*ln(8)*F^{-4} \\
& 4*L1r*pi^{-2} - 1/5184*ln(8)*F^{-4}*sinx^2*pi^{-4} + 67/27*ln(8)*F^{-4}*sinx^2*L8r*pi^{-2} \\
& + 61/9*ln(8)*F^{-4}*sinx^2*L7r*pi^{-2} + 2/3*ln(8)*F^{-4}*sinx^2*L6r*pi^{-2} \\
& - 1/9*ln(8)*F^{-4}*sinx^2*L5r*pi^{-2} - 11/18*ln(8)*F^{-4}*sinx^2*L4r*pi^{-2} \\
& + 1/9*ln(8)*F^{-4}*sinx^2*L3r*pi^{-2} + 1/9*ln(8)*F^{-4}*sinx^2*L2r*pi^{-2} \\
& + 4/9*ln(8)*F^{-4}*sinx^2*L1r*pi^{-2} - 64/9*ln(8)*F^{-4}*sinx^4*L8r*pi^{-2} - \\
& 64/3*ln(8)*F^{-4}*sinx^4*L7r*pi^{-2} + 128/27*ln(8)*F^{-4}*sinx^6*L8r*pi^{-2} \\
& + 128/9*ln(8)*F^{-4}*sinx^6*L7r*pi^{-2} + 17/27648*ln(8)^2*F^{-4}*sqrt3^{-1} \\
& *sinx*cosx*pi^{-4} - 1/13824*ln(8)^2*F^{-4}*pi^{-4} - 85/41472*ln(8)^2*F^{-4} \\
& 4*sinx^2*pi^{-4} + 1/128*ln(8)^2*F^{-4}*sinx^4*pi^{-4} - 47/5184*ln(8)^2*F^{-4} \\
& 4*sinx^6*pi^{-4} + 1/324*ln(8)^2*F^{-4}*sinx^8*pi^{-4}) \\
& + mud^2*mpp2*mkp2 * (- 239/10368/(mass(3))*ln(3)^2*F^{-4}*sqrt3^{-1} \\
& *sinx*cosx*pi^{-4} - 299/124416/(mass(3))*ln(3)^2*F^{-4}*pi^{-4} + 41/1728/(mass(3))*ln(3)^2*F^{-4} \\
& 4*sinx^2*pi^{-4} - 5/3888/(mass(3))*ln(3)^2*F^{-4}*sinx^4*pi^{-4} + 14336/27/(mass(3) \\
& - mass(8))*F^{-4}*L8r^2 + 28672/9/(mass(3) - mass(8))*F^{-4}*L7r*L8r + \\
& 14336/3/(mass(3) - mass(8))*F^{-4}*L7r^2 - 262144/27/(mass(3) - mass(8))*F^{-4} \\
& 4*sinx^2*L8r^2 - 524288/9/(mass(3) - mass(8))*F^{-4}*sinx^2*L7r*L8r - \\
& 262144/3/(mass(3) - mass(8))*F^{-4}*sinx^2*L7r^2 + 262144/27/(mass(3) - \\
& mass(8))*F^{-4}*sinx^4*L8r^2 + 524288/9/(mass(3) - mass(8))*F^{-4}*sinx^4*L7r*L8r \\
& + 262144/3/(mass(3) - mass(8))*F^{-4}*sinx^4*L7r^2 + 16/9/(mass(3) \\
& - mass(8))*ln(1)*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} + 16/3/(mass(3) - \\
& mass(8))*ln(1)*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*pi^{-2} - 1/864/(mass(3) -
\end{aligned}$$

$$\begin{aligned}
& \text{mass}(8) * \ln(1) * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - 1/10368 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(1) * \ln(3) * F^{-4} * \pi^{-4} + 1/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(3) * F^{-4} * \\
& \sin x^2 * \pi^{-4} - 1/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(3) * F^{-4} * \sin x^4 * \pi^{-4} - \\
& 1/3456 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \pi^{-4} - 1/288 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(1) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 1/3456 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(1) * \ln(6) * F^{-4} * \pi^{-4} - 1/864 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 1/10368 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \\
& \pi^{-4} - 1/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \sin x^2 * \pi^{-4} + \\
& 1/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \sin x^4 * \pi^{-4} + 56/27 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L8r * \pi^{-2} + 56/9 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L7r * \pi^{-2} - 56/81 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * F^{-4} * L8r * \pi^{-2} - 56/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \\
& L7r * \pi^{-2} + 128/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin x^2 * L8r * \pi^{-2} - \\
& 128/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin x^2 * L7r * \pi^{-2} + 896/81 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * F^{-4} * \sin x^4 * L8r * \pi^{-2} + 896/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \\
& \sin x^4 * L7r * \pi^{-2} - 1280/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin x^6 * L8r * \pi^{-2} - \\
& 1280/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin x^6 * L7r * \pi^{-2} - 7/5184 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 5/20736 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * F^{-4} * \pi^{-4} + 1/1944 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin x^2 * \\
& \pi^{-4} - 13/1944 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin x^4 * \pi^{-4} + 1/486 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * F^{-4} * \sin x^6 * \pi^{-4} + 1/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \\
& \sin x^8 * \pi^{-4} + 41/5184 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - 19/1296 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} - 1/108 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x^5 * \cos x * \pi^{-4} - 1/5184 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \\
& \pi^{-4} - 7/1296 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sin x^2 * \pi^{-4} - \\
& 13/1296 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sin x^4 * \pi^{-4} + 5/324 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sin x^6 * \pi^{-4} - 7/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 19/1296 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} + 1/108 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x^5 * \cos x * \pi^{-4} + 17/10368 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \\
& \pi^{-4} - 7/1296 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sin x^2 * \pi^{-4} - \\
& 13/1296 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sin x^4 * \pi^{-4} + 5/324 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sin x^6 * \pi^{-4} + 13/31104 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \\
& \pi^{-4} - 7/972 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \sin x^2 * \pi^{-4} - \\
& 1/972 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \sin x^4 * \pi^{-4} + 4/243 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \sin x^6 * \pi^{-4} - 2/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \\
& \sin x^8 * \pi^{-4} - 112/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L8r * \pi^{-2} - \\
& 112/3 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L7r * \pi^{-2} + \\
& 256/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * L8r * \pi^{-2} + \\
& 256/3 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * L7r * \pi^{-2} + \\
& 512/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sin x^2 * L8r * \pi^{-2} + 512/9 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(4) * F^{-4} * \sin x^2 * L7r * \pi^{-2} - 512/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \\
& \sin x^4 * L8r * \pi^{-2} - 512/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sin x^4 * L7r * \pi^{-2} + \\
& 1/96 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - \\
& 1/36 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} +
\end{aligned}$$

$$\begin{aligned}
& 5/13824/(\text{mass}(3) - \text{mass}(8)) \ln(4)^2 F^{-4} \pi^{-4} - 73/6912/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(4)^2 F^{-4} \sin^2 \pi^{-4} + 1/108/(\text{mass}(3) - \text{mass}(8)) \ln(4)^2 F^{-4} \sin^4 \pi^{-4} \\
& + 1/288/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 \pi^{-4} - 1/2304/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(6) F^{-4} \pi^{-4} - \\
& 55/3456/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(6) F^{-4} \sin^2 \pi^{-4} + 1/54/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(6) F^{-4} \sin^4 \pi^{-4} + 43/5184/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 \pi^{-4} \\
& - 29/1296/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 \pi^{-4} + 1/108/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^5 \cos^2 \pi^{-4} + 1/5184/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \pi^{-4} - \\
& 25/1296/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sin^2 \pi^{-4} + 5/144/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sin^4 \pi^{-4} - 5/324/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 L8r \pi^{-2} + 32/3/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 L7r \pi^{-2} - 256/9/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 L8r \pi^{-2} - 256/3/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 L7r \pi^{-2} - 56/27/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} L8r \pi^{-2} - 56/9/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} L7r \pi^{-2} + 512/27/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sin^2 L7r \pi^{-2} - 512/27/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sin^4 L8r \pi^{-2} - 512/9/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sin^4 L7r \pi^{-2} - 1/96/(\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 \pi^{-4} + 1/36/(\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 \pi^{-4} + 29/13824/(\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \pi^{-4} - 73/6912/(\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sin^2 \pi^{-4} + 1/108/(\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sin^4 \pi^{-4} - 1/324/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 \pi^{-4} + 29/1296/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 \pi^{-4} - 1/108/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^5 \cos^2 \pi^{-4} + 11/10368/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \pi^{-4} - 25/1296/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sin^2 \pi^{-4} + 5/144/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sin^4 \pi^{-4} - 5/324/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sin^6 \pi^{-4} - 56/27/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 L8r \pi^{-2} - 56/9/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 L7r \pi^{-2} - 56/81/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} L8r \pi^{-2} - 56/27/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} L7r \pi^{-2} + 1664/81/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^2 L8r \pi^{-2} + 1664/27/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^2 L7r \pi^{-2} - 2944/81/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^4 L8r \pi^{-2} - 2944/27/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^4 L7r \pi^{-2} + 1280/81/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^6 L8r \pi^{-2} + 1280/27/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^6 L7r \pi^{-2} + 7/5184/(\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 \pi^{-4} + 5/20736/(\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \pi^{-4} - 19/1944/(\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin^2 \pi^{-4} + 47/1944/(\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin^4 \pi^{-4} - 1/54/(\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin^6 \pi^{-4} + 1/243/(\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin^8 \pi^{-4} + 89/9216/(\text{mass}(4)) \ln(4)^2 F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 \pi^{-4} - 13/8192/(\text{mass}(4)) \ln(4)^2 F^{-4} \pi^{-4} + 13/4096/(\text{mass}(4)) \ln(4)^2 F^{-4} \sin^2 \pi^{-4} + 65/9216/(\text{mass}(5)) \ln(4)^2 F^{-4} \sqrt{3}^{-1} \sin^2 \cos^2 \pi^{-4} - 13/8192/(\text{mass}(5)) \ln(4)^2 F^{-4} \pi^{-4} +
\end{aligned}$$

$$\begin{aligned}
& 13/4096/(mass(5))*ln(4)^2*F^{-4}*sinx^2*pi^{-4} - 143/9216/(mass(6))*ln(6)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 55/24576/(mass(6))*ln(6)^2*F^{-4}*pi^{-4} + \\
& 13/4096/(mass(6))*ln(6)^2*F^{-4}*sinx^2*pi^{-4} - 119/9216/(mass(7))*ln(6)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 13/8192/(mass(7))*ln(6)^2*F^{-4}*pi^{-4} + \\
& 13/4096/(mass(7))*ln(6)^2*F^{-4}*sinx^2*pi^{-4} - 61/20736/(mass(8))*ln(8)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 83/62208/(mass(8))*ln(8)^2*F^{-4}*pi^{-4} + \\
& 1/62208/(mass(8))*ln(8)^2*F^{-4}*sinx^2*pi^{-4} + 5/3888/(mass(8))*ln(8)^2*F^{-4}*sinx^4*pi^{-4}) \\
& + mud^2*mp2^2 * (- 5/3072/(mass(1))*ln(1)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 7/12288/(mass(1))*ln(1)^2*F^{-4}*pi^{-4} - 5/3072/(mass(2))*ln(1)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 7/12288/(mass(2))*ln(1)^2*F^{-4}*pi^{-4} + \\
& 199/41472/(mass(3))*ln(3)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 2603/497664/(mass(3))*ln(3)^2*F^{-4}*pi^{-4} - 173/41472/(mass(3))*ln(3)^2*F^{-4}*sinx^2*pi^{-4} + 5/7776/(mass(3))*ln(3)^2*F^{-4}*sinx^4*pi^{-4} - 7168/27/(mass(3) - mass(8))*F^{-4}*L8r^2 - 14336/9/(mass(3) - mass(8))*F^{-4}*L7r*L8r - 7168/3/(mass(3) - mass(8))*F^{-4}*L7r^2 + \\
& 131072/27/(mass(3) - mass(8))*F^{-4}*sinx^2*L8r^2 + 262144/9/(mass(3) - mass(8))*F^{-4}*sinx^2*L7r*L8r + 131072/3/(mass(3) - mass(8))*F^{-4}*sinx^2*L7r^2 - 131072/27/(mass(3) - mass(8))*F^{-4}*sinx^4*L8r^2 - 262144/9/(mass(3) - mass(8))*F^{-4}*sinx^4*L7r*L8r - 131072/3/(mass(3) - mass(8))*F^{-4}*sinx^4*L7r^2 - 16/9/(mass(3) - mass(8))*ln(1)*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} - 16/3/(mass(3) - mass(8))*ln(1)*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*pi^{-2} + 4/9/(mass(3) - mass(8))*ln(1)*F^{-4}*L8r*pi^{-2} + 4/3/(mass(3) - mass(8))*ln(1)*F^{-4}*L7r*pi^{-2} - 64/27/(mass(3) - mass(8))*ln(1)*F^{-4}*sinx^2*L8r*pi^{-2} - 64/9/(mass(3) - mass(8))*ln(1)*F^{-4}*sinx^2*L7r*pi^{-2} + 64/27/(mass(3) - mass(8))*ln(1)*F^{-4}*sinx^4*L8r*pi^{-2} + 64/9/(mass(3) - mass(8))*ln(1)*F^{-4}*sinx^4*L7r*pi^{-2} + 1/6912/(mass(3) - mass(8))*ln(1)^2*F^{-4}*pi^{-4} + 1/576/(mass(3) - mass(8))*ln(1)*ln(3)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 7/20736/(mass(3) - mass(8))*ln(1)*ln(3)*F^{-4}*pi^{-4} - 1/1296/(mass(3) - mass(8))*ln(1)*ln(3)*F^{-4}*sinx^2*pi^{-4} + 5/1296/(mass(3) - mass(8))*ln(1)*ln(3)*F^{-4}*sinx^4*pi^{-4} - 1/324/(mass(3) - mass(8))*ln(1)*ln(3)*F^{-4}*sinx^6*pi^{-4} - 1/288/(mass(3) - mass(8))*ln(1)*ln(4)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} + 1/144/(mass(3) - mass(8))*ln(1)*ln(4)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} + 1/432/(mass(3) - mass(8))*ln(1)*ln(4)*F^{-4}*sinx^2*pi^{-4} - 1/432/(mass(3) - mass(8))*ln(1)*ln(4)*F^{-4}*sinx^4*pi^{-4} + 1/144/(mass(3) - mass(8))*ln(1)*ln(6)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 1/144/(mass(3) - mass(8))*ln(1)*ln(6)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} - 1/864/(mass(3) - mass(8))*ln(1)*ln(6)*F^{-4}*pi^{-4} + 1/432/(mass(3) - mass(8))*ln(1)*ln(6)*F^{-4}*sinx^2*pi^{-4} - 1/432/(mass(3) - mass(8))*ln(1)*ln(6)*F^{-4}*sinx^4*pi^{-4} + 1/1728/(mass(3) - mass(8))*ln(1)*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 5/20736/(mass(3) - mass(8))*ln(1)*ln(8)*F^{-4}*pi^{-4} + 5/1296/(mass(3) - mass(8))*ln(1)*ln(8)*F^{-4}*sinx^2*pi^{-4} - 1/144/(mass(3) - mass(8))*ln(1)*ln(8)*F^{-4}*sinx^4*pi^{-4} + 1/324/(mass(3) - mass(8))*ln(1)*ln(8)*F^{-4}*sinx^6*pi^{-4} + 28/81/(mass(3) - mass(8))*ln(3)*F^{-4}*L8r*pi^{-2} + 28/27/(mass(3) - mass(8))*ln(3)*F^{-4}*L7r*pi^{-2} - 128/27/(mass(3) - mass(8))*ln(3)*F^{-4}*sinx^2*L8r*pi^{-2} - 128/9/(mass(3) - mass(8))*ln(3)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4*\sin x^2*L7r*pi^{-2} + 128/81/(mass(3) - mass(8))*ln(3)*F^{-4}*\sin x^4*L8r*pi^{-2} + 128/27/(mass(3) - mass(8))*ln(3)*F^{-4}*\sin x^4*L7r*pi^{-2} + 256/81/(mass(3) \\
& - mass(8))*ln(3)*F^{-4}*\sin x^6*L8r*pi^{-2} + 256/27/(mass(3) - mass(8))*ln(3)*F^{-4}*\sin x^6*L7r*pi^{-2} - 1/9216/(mass(3) - mass(8))*ln(3)^2*F^{-4}*pi^{-4} + \\
& 7/7776/(mass(3) - mass(8))*ln(3)^2*F^{-4}*\sin x^2*pi^{-4} + 17/7776/(mass(3) - mass(8))*ln(3)^2*F^{-4}*\sin x^4*pi^{-4} - 1/243/(mass(3) - mass(8))*ln(3)^2*F^{-4}*\sin x^6*pi^{-4} + 1/972/(mass(3) - mass(8))*ln(3)^2*F^{-4}*\sin x^8*pi^{-4} - \\
& 5/2592/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sqrt(3)^{-1}*\sin x*cos x*pi^{-4} + 19/2592/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sqrt(3)^{-1}*\sin x^3*cos x*pi^{-4} \\
& - 1/216/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sqrt(3)^{-1}*\sin x^5*cos x*pi^{-4} - 1/2592/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*pi^{-4} + 13/2592/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*\sin x^2*pi^{-4} - 1/288/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*\sin x^4*pi^{-4} - 1/648/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*\sin x^6*pi^{-4} \\
& + 1/5184/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sqrt(3)^{-1}*\sin x*cos x*pi^{-4} - 19/2592/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sqrt(3)^{-1}*\sin x^3*cos x*pi^{-4} \\
& + 1/216/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sqrt(3)^{-1}*\sin x^5*cos x*pi^{-4} + 1/20736/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*pi^{-4} + 13/2592/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*\sin x^2*pi^{-4} - 1/288/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*\sin x^4*pi^{-4} - 1/648/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*\sin x^6*pi^{-4} - 29/124416/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*pi^{-4} + 17/3888/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*\sin x^2*pi^{-4} - 25/3888/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*\sin x^4*pi^{-4} + 1/243/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*\sin x^6*pi^{-4} - 1/486/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*\sin x^8*pi^{-4} + 16/9/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt(3)^{-1}*\sin x*cos x*L8r*pi^{-2} + 16/3/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt(3)^{-1}*\sin x*cos x*L7r*pi^{-2} - 32/9/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt(3)^{-1}*\sin x^3*cos x*L8r*pi^{-2} - 32/3/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt(3)^{-1}*\sin x^3*cos x*L7r*pi^{-2} + 16/27/(mass(3) - mass(8))*ln(4)*F^{-4}*L8r*pi^{-2} + 16/9/(mass(3) - mass(8))*ln(4)*F^{-4}*\sin x^2*L8r*pi^{-2} - 224/27/(mass(3) - mass(8))*ln(4)*F^{-4}*\sin x^2*L7r*pi^{-2} + 224/27/(mass(3) - mass(8))*ln(4)*F^{-4}*\sin x^4*L8r*pi^{-2} + 224/9/(mass(3) - mass(8))*ln(4)*F^{-4}*\sin x^4*L7r*pi^{-2} + 1/2304/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sqrt(3)^{-1}*\sin x*cos x*pi^{-4} - 1/2304/(mass(3) - mass(8))*ln(4)^2*F^{-4}*pi^{-4} + 1/216/(mass(3) - mass(8))*ln(4)^2*F^{-4}*\sin x^2*pi^{-4} - 1/216/(mass(3) - mass(8))*ln(4)^2*F^{-4}*\sin x^4*pi^{-4} - 1/1152/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*sqrt(3)^{-1}*\sin x*cos x*pi^{-4} - 1/3456/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*pi^{-4} + 1/216/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*\sin x^2*pi^{-4} - 1/216/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*\sin x^4*pi^{-4} - 1/2592/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sqrt(3)^{-1}*\sin x*cos x*pi^{-4} - 7/2592/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sqrt(3)^{-1}*\sin x^3*cos x*pi^{-4} + 1/216/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sqrt(3)^{-1}*\sin x^5*cos x*pi^{-4} - 1/2592/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*pi^{-4} + 5/864/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*\sin x^2*pi^{-4} - 19/2592/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*\sin x^4*pi^{-4} + 1/648/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*\sin x^6*pi^{-4} + 32/9/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt(3)^{-1}*\sin x^3*cos x*L8r*pi^{-2} + 32/3/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt(3)^{-1}*\sin x^3*cos x*L7r*pi^{-2} - 224/27/(mass(3) -
\end{aligned}$$

$$\begin{aligned}
& \text{mass}(8) * \ln(6) * F^{-4} * \sin^2 * L8r * \pi^{-2} - 224/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sin^2 * L7r * \pi^{-2} + 224/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sin^4 * L8r * \pi^{-2} \\
& + 224/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sin^4 * L7r * \pi^{-2} - 7/2304 / (\text{mass}(3) - \text{mass}(8)) * \ln(6)^2 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} \\
& + 5/6912 / (\text{mass}(3) - \text{mass}(8)) * \ln(6)^2 * F^{-4} * \pi^{-4} + 1/216 / (\text{mass}(3) - \text{mass}(8)) * \ln(6)^2 * F^{-4} * \sin^2 * \pi^{-4} - 1/216 / (\text{mass}(3) - \text{mass}(8)) * \ln(6)^2 * F^{-4} * \sin^4 * \pi^{-4} \\
& - 1/5184 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} + 7/2592 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos^2 * \pi^{-4} \\
& - 1/216 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^5 * \cos^2 * \pi^{-4} - 1/20736 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \pi^{-4} + 5/864 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin^2 * \pi^{-4} \\
& - 19/2592 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin^4 * \pi^{-4} + 1/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin^6 * \pi^{-4} \\
& + 28/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * L8r * \pi^{-2} + 28/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * L7r * \pi^{-2} - 640/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^2 * L8r * \pi^{-2} \\
& - 640/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^2 * L7r * \pi^{-2} + 896/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^4 * L8r * \pi^{-2} + 896/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^4 * L7r * \pi^{-2} \\
& - 256/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^6 * L8r * \pi^{-2} - 256/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^6 * L7r * \pi^{-2} - 1/9216 / (\text{mass}(3) - \text{mass}(8)) * \ln(8)^2 * F^{-4} * \pi^{-4} + 23/7776 / (\text{mass}(3) - \text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin^2 * \pi^{-4} \\
& - 31/7776 / (\text{mass}(3) - \text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin^4 * \pi^{-4} + 1/972 / (\text{mass}(3) - \text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin^6 * \pi^{-4} - 31/24576 / (\text{mass}(4)) * \ln(4)^2 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} \\
& + 5/49152 / (\text{mass}(4)) * \ln(4)^2 * F^{-4} * \pi^{-4} - 5/24576 / (\text{mass}(4)) * \ln(4)^2 * F^{-4} * \sin^2 * \pi^{-4} - 31/24576 / (\text{mass}(5)) * \ln(4)^2 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} + 5/49152 / (\text{mass}(5)) * \ln(4)^2 * F^{-4} * \pi^{-4} \\
& - 5/24576 / (\text{mass}(5)) * \ln(4)^2 * F^{-4} * \sin^2 * \pi^{-4} + 59/8192 / (\text{mass}(6)) * \ln(6)^2 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} - 23/49152 / (\text{mass}(6)) * \ln(6)^2 * F^{-4} * \pi^{-4} - 5/24576 / (\text{mass}(6)) * \ln(6)^2 * F^{-4} * \sin^2 * \pi^{-4} + 59/8192 / (\text{mass}(7)) * \ln(6)^2 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} - 23/49152 / (\text{mass}(7)) * \ln(6)^2 * F^{-4} * \pi^{-4} - 5/24576 / (\text{mass}(7)) * \ln(6)^2 * F^{-4} * \sin^2 * \pi^{-4} + 73/82944 / (\text{mass}(8)) * \ln(8)^2 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} + 85/248832 / (\text{mass}(8)) * \ln(8)^2 * F^{-4} * \pi^{-4} + 139/248832 / (\text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin^2 * \pi^{-4} - 5/7776 / (\text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin^4 * \pi^{-4}) \\
& + \text{mud}^3 * (- 6535/663552 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} - 1187/497664 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-2} + 55/54 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L8r * \pi^{-2} - 8/3 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L7r * \pi^{-2} + 7/3 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L6r * \pi^{-2} - 103/108 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L5r * \pi^{-2} - 2560/9 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L5r * L8r - 512/3 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L5r * L7r - 512/3 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L5r * L6r + 1024/9 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L5r^2 - 7/6 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L4r * \pi^{-2} + 256/3 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L4r * L8r + 768 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L4r * L7r - 256 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L4r * L6r + 512/3 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L4r * L5r + 128 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L4r^2 + 133/432 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L3r * \pi^{-2} + 41/36 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L2r * \pi^{-2} + 4/9 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L1r * \pi^{-2} - 64/3 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * CC33 - 64/3 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * CC32 + 64 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * CC31 + 96 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * CC21
\end{aligned}$$

$$\begin{aligned}
& + 96F^{-4}\sqrt{3}^{-1}\sin x \cos x \text{CC20} + 96F^{-4}\sqrt{3}^{-1}\sin x \cos x \text{CC19} - \\
& 64/3F^{-4}\sqrt{3}^{-1}\sin x \cos x \text{CC18} - 320/9F^{-4}\sqrt{3}^{-1}\sin x \cos x \text{CC17} - \\
& 352/3F^{-4}\sqrt{3}^{-1}\sin x \cos x \text{CC16} - 64/3F^{-4}\sqrt{3}^{-1}\sin x \cos x \text{CC15} - \\
& 320/9F^{-4}\sqrt{3}^{-1}\sin x \cos x \text{CC14} - 128/3F^{-4}\sqrt{3}^{-1}\sin x \cos x \text{CC13} \\
& - 512/9F^{-4}\sqrt{3}^{-1}\sin x \cos x \text{CC12} + 325/165888F^{-4}\pi^{-4} + 221/497664F^{-4}\pi^{-2} \\
& - 19/108F^{-4}L8r\pi^{-2} - 4/9F^{-4}L7r\pi^{-2} + 1/18F^{-4}L6r\pi^{-2} \\
& + 1/72F^{-4}L5r\pi^{-2} + 128/9F^{-4}L5rL8r - 256/3F^{-4}L5rL7r \\
& + 128/3F^{-4}L5rL6r - 64/3F^{-4}L5r^2 - 1/36F^{-4}L4r\pi^{-2} + \\
& 256/3F^{-4}L4rL8r + 128F^{-4}L4rL7r - 128/3F^{-4}L4rL5r - 17/864F^{-4}L3r\pi^{-2} \\
& - 1/9F^{-4}L2r\pi^{-2} - 1/12F^{-4}L1r\pi^{-2} + 32/3F^{-4}\text{CC33} - 64/3F^{-4}\text{CC32} \\
& - 32F^{-4}\text{CC20} - 32/3F^{-4}\text{CC18} + 16/9F^{-4}\text{CC17} + 32/3F^{-4}\text{CC16} + 16/3F^{-4}\text{CC15} \\
& + 16/9F^{-4}\text{CC14} + 32/3F^{-4}\text{CC13} + 32/3F^{-4}\text{CC12} + 7567/1990656F^{-4}\sin^2\pi^{-4} + 1091/1492992F^{-4}\sin^2\pi^{-2} \\
& + 7/54F^{-4}\sin^2L8r\pi^{-2} + 8/27F^{-4}\sin^2L7r\pi^{-2} - 1/27F^{-4}\sin^2L6r\pi^{-2} \\
& - 5/324F^{-4}\sin^2L5r\pi^{-2} + 512/9F^{-4}\sin^2L5rL8r + 512/9F^{-4}\sin^2L5rL7r \\
& + 512/9F^{-4}\sin^2L5rL6r - 512/27F^{-4}\sin^2L5r^2 + 1/54F^{-4}\sin^2L4r\pi^{-2} + 256/3F^{-4}\sin^2L4rL8r \\
& + 256/3F^{-4}\sin^2L4rL7r + 256/3F^{-4}\sin^2L4rL6r - 512/9F^{-4}\sin^2L4rL5r \\
& - 128/3F^{-4}\sin^2L4r^2 - 19/432F^{-4}\sin^2L3r\pi^{-2} - 17/108F^{-4}\sin^2L2r\pi^{-2} - 2/27F^{-4}\sin^2L1r\pi^{-2} \\
& - 64/3F^{-4}\sin^2\text{CC33} - 64/3F^{-4}\sin^2\text{CC32} - 64/3F^{-4}\sin^2\text{CC31} - 32F^{-4}\sin^2\text{CC21} \\
& - 32F^{-4}\sin^2\text{CC20} - 32F^{-4}\sin^2\text{CC19} + 64/9F^{-4}\sin^2\text{CC18} + 64/9F^{-4}\sin^2\text{CC17} \\
& + 32/3F^{-4}\sin^2\text{CC16} + 64/9F^{-4}\sin^2\text{CC15} + 64/9F^{-4}\sin^2\text{CC14} + 128/9F^{-4}\sin^2\text{CC13} \\
& + 256/27F^{-4}\sin^2\text{CC12} + 61/10368\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x \pi^{-4} - 148/27\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L8r\pi^{-2} \\
& - 28/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L7r\pi^{-2} - 56/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L6r\pi^{-2} \\
& + 20/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L5r\pi^{-2} + 22/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L4r\pi^{-2} \\
& - 4/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L3r\pi^{-2} - 8/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L2r\pi^{-2} \\
& - 8/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L1r\pi^{-2} - 1/1152\ln(3)F^{-4}\pi^{-4} + 4/27\ln(3)F^{-4}L8r\pi^{-2} \\
& - 16/9\ln(3)F^{-4}L7r\pi^{-2} + 13/9\ln(3)F^{-4}L6r\pi^{-2} - 10/27\ln(3)F^{-4}L5r\pi^{-2} \\
& - 2/3\ln(3)F^{-4}L4r\pi^{-2} + 1/4\ln(3)F^{-4}L3r\pi^{-2} + 1/2\ln(3)F^{-4}L2r\pi^{-2} + 1/2\ln(3)F^{-4}L1r\pi^{-2} \\
& - 41/31104\ln(3)F^{-4}\sin^2\pi^{-4} + 16/81\ln(3)F^{-4}\sin^2L8r\pi^{-2} - 8/9\ln(3)F^{-4}\sin^2L7r\pi^{-2} \\
& + 8/9\ln(3)F^{-4}\sin^2L6r\pi^{-2} - 20/81\ln(3)F^{-4}\sin^2L5r\pi^{-2} - 8/27\ln(3)F^{-4}\sin^2L4r\pi^{-2} \\
& + 2/9\ln(3)F^{-4}\sin^2L3r\pi^{-2} + 4/9\ln(3)F^{-4}\sin^2L2r\pi^{-2} + 4/9\ln(3)F^{-4}\sin^2L1r\pi^{-2} \\
& + 1/1944\ln(3)F^{-4}\sin^4\pi^{-4} + 56/27\ln(3)F^{-4}\sin^4L8r\pi^{-2} + 128/27\ln(3)F^{-4}\sin^4L7r\pi^{-2} \\
& + 16/27\ln(3)F^{-4}\sin^4L6r\pi^{-2} - 20/81\ln(3)F^{-4}\sin^4L5r\pi^{-2} - 4/9\ln(3)F^{-4}\sin^4L4r\pi^{-2} \\
& - 64/81\ln(3)F^{-4}\sin^6L8r\pi^{-2} - 64/27\ln(3)F^{-4}\sin^6L7r\pi^{-2} + 215/82944\ln(3)^2F^{-4}\sqrt{3}^{-1}\sin x \cos x \pi^{-4} \\
& - 29/82944\ln(3)^2F^{-4}\pi^{-4} - 1/31104\ln(3)^2F^{-4}\sin^2\pi^{-4} - 5/31104\ln(3)^2F^{-4}\sin^4\pi^{-4} \\
& - 25/15552\ln(3)^2F^{-4}\sin^6\pi^{-4} + 1/972\ln(3)^2F^{-4}\sin^8\pi^{-4} + 1/3456\ln(3)\ln(4)F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}} \sin x \cos x \pi^{-4} + 23/10368 \ln(3) \ln(4) F^{-4 \sqrt{3}} \sin^3 x \cos x \pi^{-4} - 1/1296 \ln(3) \ln(4) F^{-4 \sqrt{3}} \sin^5 x \cos x \pi^{-4} - 1/3072 \ln(3) \ln(4) F^{-4 \pi} + 1/2304 \ln(3) \ln(4) F^{-4 \sin^2 \pi} + 1/10368 \ln(3) \ln(4) F^{-4 \sin^4 \pi} + 1/1296 \ln(3) \ln(4) F^{-4 \sin^6 \pi} - 29/3456 \ln(3) \ln(6) F^{-4 \sqrt{3}} \sin x \cos x \pi^{-4} - 23/10368 \ln(3) \ln(6) F^{-4 \sqrt{3}} \sin^3 x \cos x \pi^{-4} + 1/1296 \ln(3) \ln(6) F^{-4 \sqrt{3}} \sin^5 x \cos x \pi^{-4} + 19/6912 \ln(3) \ln(6) F^{-4 \pi} + 1/2304 \ln(3) \ln(6) F^{-4 \sin^2 \pi} + 1/10368 \ln(3) \ln(6) F^{-4 \sin^4 \pi} + 1/1296 \ln(3) \ln(6) F^{-4 \sin^6 \pi} + 17/41472 \ln(3) \ln(8) F^{-4 \sqrt{3}} \sin x \cos x \pi^{-4} + 13/41472 \ln(3) \ln(8) F^{-4 \pi} - 1/15552 \ln(3) \ln(8) F^{-4 \sin^2 \pi} - 11/5184 \ln(3) \ln(8) F^{-4 \sin^4 \pi} + 11/2592 \ln(3) \ln(8) F^{-4 \sin^6 \pi} - 1/486 \ln(3) \ln(8) F^{-4 \sin^8 \pi} + 55/41472 \ln(4) F^{-4 \sqrt{3}} \sin x \cos x \pi^{-4} + 41/108 \ln(4) F^{-4 \sqrt{3}} \sin x \cos x L_{8r} \pi^{-2} + 19/18 \ln(4) F^{-4 \sqrt{3}} \sin x \cos x L_{7r} \pi^{-2} - 1/72 \ln(4) F^{-4 \sqrt{3}} \sin x \cos x L_{5r} \pi^{-2} - 1/12 \ln(4) F^{-4 \sqrt{3}} \sin x \cos x L_{4r} \pi^{-2} + 7/48 \ln(4) F^{-4 \sqrt{3}} \sin x \cos x L_{3r} \pi^{-2} + 1/12 \ln(4) F^{-4 \sqrt{3}} \sin x \cos x L_{2r} \pi^{-2} + 1/3 \ln(4) F^{-4 \sqrt{3}} \sin x \cos x L_{1r} \pi^{-2} - 1/1296 \ln(4) F^{-4 \sqrt{3}} \sin^3 x \cos x \pi^{-4} - 16/27 \ln(4) F^{-4 \sqrt{3}} \sin^3 x \cos x L_{8r} \pi^{-2} - 16/9 \ln(4) F^{-4 \sqrt{3}} \sin^3 x \cos x L_{7r} \pi^{-2} - 43/82944 \ln(4) F^{-4 \pi} - 17/216 \ln(4) F^{-4 L_{8r} \pi} - 7/36 \ln(4) F^{-4 L_{7r} \pi} + 1/144 \ln(4) F^{-4 L_{5r} \pi} + 1/24 \ln(4) F^{-4 L_{4r} \pi} - 7/96 \ln(4) F^{-4 L_{3r} \pi} - 1/24 \ln(4) F^{-4 L_{2r} \pi} - 1/6 \ln(4) F^{-4 L_{1r} \pi} + 13/13824 \ln(4) F^{-4 \sin^2 \pi} + 1/12 \ln(4) F^{-4 \sin^2 L_{8r} \pi} - 2 + 1/6 \ln(4) F^{-4 \sin^2 L_{7r} \pi} - 1/72 \ln(4) F^{-4 \sin^2 L_{5r} \pi} - 1/12 \ln(4) F^{-4 \sin^2 L_{4r} \pi} + 7/48 \ln(4) F^{-4 \sin^2 L_{3r} \pi} + 1/12 \ln(4) F^{-4 \sin^2 L_{2r} \pi} + 1/3 \ln(4) F^{-4 \sin^2 L_{1r} \pi} - 7/13824 \ln(4)^2 F^{-4 \sqrt{3}} \sin x \cos x \pi^{-4} + 1/1728 \ln(4)^2 F^{-4 \sqrt{3}} \sin^3 x \cos x \pi^{-4} + 7/27648 \ln(4)^2 F^{-4 \pi} - 11/13824 \ln(4)^2 F^{-4 \sin^2 \pi} + 1/1728 \ln(4)^2 F^{-4 \sin^4 \pi} - 1/18432 \ln(4) \ln(6) F^{-4 \sqrt{3}} \sin x \cos x \pi^{-4} - 7/36864 \ln(4) \ln(6) F^{-4 \pi} + 61/55296 \ln(4) \ln(6) F^{-4 \sin^2 \pi} - 1/864 \ln(4) \ln(6) F^{-4 \sin^4 \pi} + 13/20736 \ln(4) \ln(8) F^{-4 \sqrt{3}} \sin x \cos x \pi^{-4} - 5/3456 \ln(4) \ln(8) F^{-4 \sqrt{3}} \sin^3 x \cos x \pi^{-4} + 1/1296 \ln(4) \ln(8) F^{-4 \sqrt{3}} \sin^5 x \cos x \pi^{-4} - 23/82944 \ln(4) \ln(8) F^{-4 \pi} + 1/1152 \ln(4) \ln(8) F^{-4 \sin^2 \pi} - 1/10368 \ln(4) \ln(8) F^{-4 \sin^4 \pi} - 1/1296 \ln(4) \ln(8) F^{-4 \sin^6 \pi} - 349/41472 \ln(6) F^{-4 \sqrt{3}} \sin x \cos x \pi^{-4} + 553/108 \ln(6) F^{-4 \sqrt{3}} \sin x \cos x L_{8r} \pi^{-2} + 83/18 \ln(6) F^{-4 \sqrt{3}} \sin x \cos x L_{7r} \pi^{-2} - 43/24 \ln(6) F^{-4 \sqrt{3}} \sin x \cos x L_{5r} \pi^{-2} + 5/4 \ln(6) F^{-4 \sqrt{3}} \sin x \cos x L_{4r} \pi^{-2} - 35/16 \ln(6) F^{-4 \sqrt{3}} \sin x \cos x L_{3r} \pi^{-2} - 5/4 \ln(6) F^{-4 \sqrt{3}} \sin x \cos x L_{2r} \pi^{-2} - 5 \ln(6) F^{-4 \sqrt{3}} \sin x \cos x L_{1r} \pi^{-2} + 1/1296 \ln(6) F^{-4 \sqrt{3}} \sin^3 x \cos x \pi^{-4} + 16/27 \ln(6) F^{-4 \sqrt{3}} \sin^3 x \cos x L_{8r} \pi^{-2} + 16/9 \ln(6) F^{-4 \sqrt{3}} \sin^3 x \cos x L_{7r} \pi^{-2} + 247/82944 \ln(6) F^{-4 \pi} + 71/216 \ln(6) F^{-4 L_{8r} \pi} + 49/36 \ln(6) F^{-4 L_{7r} \pi} + 1/16 \ln(6) F^{-4 L_{5r} \pi} - 1/8 \ln(6) F^{-4 L_{4r} \pi} + 11/32 \ln(6) F^{-4 L_{3r} \pi} + 1/8 \ln(6) F^{-4 L_{2r} \pi} + 1/2 \ln(6) F^{-4 L_{1r} \pi} + 13/13824 \ln(6) F^{-4 \sin^2 \pi} + 1/12 \ln(6) F^{-4 \sin^2 L_{8r} \pi} - 2 + 1/6 \ln(6) F^{-4 \sin^2 L_{7r} \pi} - 1/72 \ln(6) F^{-4 \sin^2 L_{5r} \pi} - 2
\end{aligned}$$

$$\begin{aligned}
& - 1/12*\ln(6)*F^{-4}*\sinx^2*L4r*\pi^{-2} + 7/48*\ln(6)*F^{-4}*\sinx^2*L3r*\pi^{-2} \\
& + 1/12*\ln(6)*F^{-4}*\sinx^2*L2r*\pi^{-2} + 1/3*\ln(6)*F^{-4}*\sinx^2*L1r*\pi^{-2} \\
& + 109/13824*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} - 1/1728*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sinx^3*\cosx*\pi^{-4} \\
& - 49/27648*\ln(6)^2*F^{-4}*\pi^{-4} - 11/13824*\ln(6)^2*F^{-4}*\sinx^2*\pi^{-4} + 1/1728*\ln(6)^2*F^{-4}*\sinx^4*\pi^{-4} \\
& + 101/20736*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} + 5/3456*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx^3*\cosx*\pi^{-4} \\
& - 1/1296*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx^5*\cosx*\pi^{-4} + 19/41472*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} \\
& + 1/1152*\ln(6)*\ln(8)*F^{-4}*\sinx^2*\pi^{-4} - 1/10368*\ln(6)*\ln(8)*F^{-4}*\sinx^4*\pi^{-4} \\
& - 1/1296*\ln(6)*\ln(8)*F^{-4}*\sinx^6*\pi^{-4} + 1/648*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} \\
& + 44/27*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L8r*\pi^{-2} + 20/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L7r*\pi^{-2} \\
& - 4/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L5r*\pi^{-2} + 2/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L4r*\pi^{-2} \\
& - 2/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L3r*\pi^{-2} - 2/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L2r*\pi^{-2} \\
& - 8/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L1r*\pi^{-2} + 1/10368*\ln(8)*F^{-4}*\pi^{-4} \\
& + 2/9*\ln(8)*F^{-4}*\pi^{-4} + 4/9*\ln(8)*F^{-4}*\pi^{-4} + 4/9*\ln(8)*F^{-4}*\pi^{-4} \\
& + 1/9*\ln(8)*F^{-4}*\pi^{-4} - 1/9*\ln(8)*F^{-4}*\pi^{-4} - 1/27*\ln(8)*F^{-4}*\pi^{-4} - 1/9*\ln(8)*F^{-4}*\pi^{-4} \\
& + 1/9*\ln(8)*F^{-4}*\pi^{-4} - 1/36*\ln(8)*F^{-4}*\pi^{-4} - 1/36*\ln(8)*F^{-4}*\pi^{-4} - 1/36*\ln(8)*F^{-4}*\pi^{-4} \\
& - 1/9*\ln(8)*F^{-4}*\pi^{-4} - 1/9*\ln(8)*F^{-4}*\pi^{-4} + 1/1944*\ln(8)*F^{-4}*\pi^{-4} + 104/81*\ln(8)*F^{-4}*\pi^{-4} \\
& + 64/27*\ln(8)*F^{-4}*\pi^{-4} + 64/27*\ln(8)*F^{-4}*\pi^{-4} + 16/27*\ln(8)*F^{-4}*\pi^{-4} - 20/81*\ln(8)*F^{-4}*\pi^{-4} \\
& - 20/81*\ln(8)*F^{-4}*\pi^{-4} - 16/27*\ln(8)*F^{-4}*\pi^{-4} + 20/81*\ln(8)*F^{-4}*\pi^{-4} + 4/9*\ln(8)*F^{-4}*\pi^{-4} \\
& + 64/81*\ln(8)*F^{-4}*\pi^{-4} + 64/81*\ln(8)*F^{-4}*\pi^{-4} + 64/27*\ln(8)*F^{-4}*\pi^{-4} - 19/27648*\ln(8)^2*F^{-4}*\sqrt{3}^{-1} \\
& *sinx*\cosx*\pi^{-4} - 7/27648*\ln(8)^2*F^{-4}*\pi^{-4} - 7/10368*\ln(8)^2*F^{-4}*\sinx^2*\pi^{-4} \\
& + 71/31104*\ln(8)^2*F^{-4}*\sinx^4*\pi^{-4} - 41/15552*\ln(8)^2*F^{-4}*\sinx^6*\pi^{-4} \\
& + 1/972*\ln(8)^2*F^{-4}*\sinx^8*\pi^{-4}) \\
& + \text{mud}^3*\text{mkp}2 * (- 107/2592/(mass(3))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} \\
& + 97/15552/(mass(3))*\ln(3)^2*F^{-4}*\pi^{-4} + 83/7776/(mass(3))*\ln(3)^2*F^{-4}*\sinx^2*\pi^{-4} \\
& + 5/2916/(mass(3))*\ln(3)^2*F^{-4}*\sinx^4*\pi^{-4} + 7168/27/(mass(3) - mass(8))*F^{-4} *L8r^2 \\
& + 14336/9/(mass(3) - mass(8))*F^{-4} *L7r *L8r + 7168/3/(mass(3) - mass(8))*F^{-4} *L7r^2 \\
& - 131072/81/(mass(3) - mass(8))*F^{-4} *\sinx^2 *L8r^2 - 262144/27/(mass(3) - mass(8))*F^{-4} *\sinx^2 *L7r *L8r \\
& - 131072/9/(mass(3) - mass(8))*F^{-4} *\sinx^2 *L7r^2 + 131072/81/(mass(3) - mass(8))*F^{-4} *\sinx^4 *L8r^2 \\
& + 262144/27/(mass(3) - mass(8))*F^{-4} *\sinx^4 *L7r *L8r + 131072/9/(mass(3) - mass(8))*F^{-4} *\sinx^4 *L7r^2 \\
& + 8/9/(mass(3) - mass(8))*\ln(3)*F^{-4} *\sqrt{3}^{-1}*\sinx*\cosx *L8r *\pi^{-2} + 8/3/(mass(3) - mass(8))*\ln(3) \\
& *F^{-4} *\sqrt{3}^{-1}*\sinx*\cosx *L7r *\pi^{-2} - 28/81/(mass(3) - mass(8))*\ln(3)*F^{-4} *L8r *\pi^{-2} \\
& - 28/27/(mass(3) - mass(8))*\ln(3)*F^{-4} *L7r *\pi^{-2} + 1024/243/(mass(3) - mass(8))*\ln(3)*F^{-4} *\sinx^4 *L8r *\pi^{-2} \\
& + 1024/81/(mass(3) - mass(8))*\ln(3)*F^{-4} *\sinx^4 *L7r *\pi^{-2} - 1024/243/(mass(3) - mass(8))*\ln(3) \\
& *F^{-4} *\sinx^6 *L8r *\pi^{-2} - 1024/81/(mass(3) - mass(8))*\ln(3)*F^{-4} *\sinx^6 *L7r *\pi^{-2} \\
& - 1/1728/(mass(3) - mass(8))*\ln(3)^2*F^{-4} *\sqrt{3}^{-1}*\sinx*\cosx *\pi^{-4} + 1/10368/(mass(3) - mass(8))*\ln(3)^2*F^{-4} *\pi^{-4} +
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2*L7r*\pi^{-2} - 256/81/(mass(3) - mass(8))*\ln(6)*F^{-4}*\sin x^4*L8r*\pi^{-2} \\
& - 256/27/(mass(3) - mass(8))*\ln(6)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 79/13824/(mass(3) \\
& - mass(8))*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/108/(mass(3) - \\
& mass(8))*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/1728/(mass(3) - \\
& mass(8))*\ln(6)^2*F^{-4}*\pi^{-4} + 23/10368/(mass(3) - mass(8))*\ln(6)^2*F^{-4} \\
& *4*\sin x^2*\pi^{-4} - 1/324/(mass(3) - mass(8))*\ln(6)^2*F^{-4}*\sin x^4*\pi^{-4} - \\
& 25/7776/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 4/243/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& - 1/81/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} \\
& + 13/20736/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} - 1/243/(mass(3) - \\
& mass(8))*\ln(6)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 2/243/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4} \\
& *4*\sin x^4*\pi^{-4} - 1/243/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} \\
& - 8/9/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} \\
& - 8/3/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} \\
& - 28/81/(mass(3) - mass(8))*\ln(8)*F^{-4}*\pi^{-2} - 28/27/(mass(3) - \\
& mass(8))*\ln(8)*F^{-4}*\pi^{-2} + 1024/243/(mass(3) - mass(8))*\ln(8)*F^{-4} \\
& *4*\sin x^2*L8r*\pi^{-2} + 1024/81/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sin x^2*L7r*\pi^{-2} \\
& - 2048/243/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 2048/81/(mass(3) \\
& - mass(8))*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 1024/243/(mass(3) - mass(8))*\ln(8)*F^{-4} \\
& *4*\sin x^6*L8r*\pi^{-2} + 1024/81/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sin x^6*L7r*\pi^{-2} \\
& + 1/1728/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& + 1/10368/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*\pi^{-4} - 7/2916/(mass(3) - \\
& mass(8))*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} + 23/2916/(mass(3) - mass(8))*\ln(8)^2*F^{-4} \\
& *4*\sin x^4*\pi^{-4} - 2/243/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*\sin x^6*\pi^{-4} + \\
& 2/729/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*\sin x^8*\pi^{-4} + 125/36864/(mass(4))*\ln(4)^2*F^{-4} \\
& *4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 25/18432/(mass(4))*\ln(4)^2*F^{-4}*\pi^{-4} + \\
& 25/9216/(mass(4))*\ln(4)^2*F^{-4}*\sin x^2*\pi^{-4} + 65/36864/(mass(5))*\ln(4)^2*F^{-4} \\
& *4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 13/18432/(mass(5))*\ln(4)^2*F^{-4}*\pi^{-4} + \\
& 13/9216/(mass(5))*\ln(4)^2*F^{-4}*\sin x^2*\pi^{-4} - 823/36864/(mass(6))*\ln(6)^2*F^{-4} \\
& *4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 35/4608/(mass(6))*\ln(6)^2*F^{-4}*\pi^{-4} + \\
& 25/9216/(mass(6))*\ln(6)^2*F^{-4}*\sin x^2*\pi^{-4} + 77/36864/(mass(7))*\ln(6)^2*F^{-4} \\
& *4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/1536/(mass(7))*\ln(6)^2*F^{-4}*\pi^{-4} + \\
& 13/9216/(mass(7))*\ln(6)^2*F^{-4}*\sin x^2*\pi^{-4} + 73/20736/(mass(8))*\ln(8)^2*F^{-4} \\
& *4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 73/124416/(mass(8))*\ln(8)^2*F^{-4}*\pi^{-4} + \\
& 5/2916/(mass(8))*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} - 5/2916/(mass(8))*\ln(8)^2*F^{-4} \\
& *4*\sin x^4*\pi^{-4}) \\
& + mud^3*mpp2 * (- 5/1296/(mass(3))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& + 299/248832/(mass(3))*\ln(3)^2*F^{-4}*\pi^{-4} - 41/10368/(mass(3))*\ln(3)^2*F^{-4} \\
& *4*\sin x^2*\pi^{-4} + 5/23328/(mass(3))*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} - 7168/27/(mass(3) \\
& - mass(8))*F^{-4}*\pi^{-2} - 14336/9/(mass(3) - mass(8))*F^{-4}*\pi^{-2} - 7168/3/(mass(3) - \\
& mass(8))*F^{-4}*\pi^{-2} + 131072/81/(mass(3) - mass(8))*F^{-4} \\
& *4*\sin x^2*\pi^{-2} + 262144/27/(mass(3) - mass(8))*F^{-4}*\sin x^2*\pi^{-2} + \\
& 131072/9/(mass(3) - mass(8))*F^{-4}*\sin x^2*\pi^{-2} - 131072/81/(mass(3) \\
& - mass(8))*F^{-4}*\sin x^4*\pi^{-2} - 262144/27/(mass(3) - mass(8))*F^{-4} \\
& *4*\sin x^4*\pi^{-2} - 131072/9/(mass(3) - mass(8))*F^{-4}*\sin x^4*\pi^{-2} +
\end{aligned}$$

$$\begin{aligned}
& 1/20736/(\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(3) * F^{-4} * \pi^{-4} - 1/3888/(\text{mass}(3) - \\
& \text{mass}(8)) * \ln(1) * \ln(3) * F^{-4} * \sin^2 \pi^{-4} + 1/3888/(\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(3) * F^{-4} * \\
& \sin^4 \pi^{-4} - 1/20736/(\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \pi^{-4} + \\
& 1/3888/(\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \sin^2 \pi^{-4} - 1/3888/(\text{mass}(3) - \\
& \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \sin^4 \pi^{-4} - 16/27/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin^2 \pi^{-4} * \cos^2 \pi^{-4} * L8r * \pi^{-2} - 16/9/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \\
& \sin^2 \pi^{-4} * \cos^2 \pi^{-4} * L7r * \pi^{-2} + 28/81/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * L8r * \pi^{-2} \\
& + 28/27/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * L7r * \pi^{-2} - 64/81/(\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * F^{-4} * \sin^2 \pi^{-4} * L8r * \pi^{-2} - 64/27/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \\
& \sin^2 \pi^{-4} * L7r * \pi^{-2} - 448/243/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^4 \pi^{-4} * L8r * \pi^{-2} \\
& - 448/81/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^4 \pi^{-4} * L7r * \pi^{-2} + 640/243/(\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * F^{-4} * \sin^6 \pi^{-4} * L8r * \pi^{-2} + 640/81/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \\
& \sin^6 \pi^{-4} * L7r * \pi^{-2} + 1/2592/(\text{mass}(3) - \text{mass}(8)) * \ln(3)^2 * F^{-4} * \sqrt{3}^{-1} * \\
& \sin^2 \pi^{-4} * \cos^2 \pi^{-4} - 5/41472/(\text{mass}(3) - \text{mass}(8)) * \ln(3)^2 * F^{-4} * \pi^{-4} - \\
& 1/11664/(\text{mass}(3) - \text{mass}(8)) * \ln(3)^2 * F^{-4} * \sin^2 \pi^{-4} + 13/11664/(\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3)^2 * F^{-4} * \sin^4 \pi^{-4} - 1/2916/(\text{mass}(3) - \text{mass}(8)) * \ln(3)^2 * F^{-4} * \\
& \sin^6 \pi^{-4} - 1/1458/(\text{mass}(3) - \text{mass}(8)) * \ln(3)^2 * F^{-4} * \sin^8 \pi^{-4} - \\
& 11/7776/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^2 \pi^{-4} * \cos^2 \pi^{-4} + \\
& 19/7776/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^3 \pi^{-4} * \cos^2 \pi^{-4} \\
& + 1/648/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^5 \pi^{-4} * \cos^2 \pi^{-4} \\
& - 1/20736/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \pi^{-4} + 7/7776/(\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sin^2 \pi^{-4} + 13/7776/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \\
& \sin^4 \pi^{-4} - 5/1944/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sin^6 \pi^{-4} \\
& + 5/1944/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^2 \pi^{-4} * \cos^2 \pi^{-4} - \\
& 19/7776/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^3 \pi^{-4} * \cos^2 \pi^{-4} \\
& - 1/648/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^5 \pi^{-4} * \cos^2 \pi^{-4} \\
& - 7/10368/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \pi^{-4} + 7/7776/(\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sin^2 \pi^{-4} + 13/7776/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \\
& \sin^4 \pi^{-4} - 5/1944/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sin^6 \pi^{-4} \\
& - 13/62208/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \pi^{-4} + 7/5832/(\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \sin^2 \pi^{-4} + 1/5832/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \\
& \sin^4 \pi^{-4} - 2/729/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \sin^6 \pi^{-4} + \\
& 1/729/(\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \sin^8 \pi^{-4} + 64/27/(\text{mass}(3) \\
& - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^2 \pi^{-4} * \cos^2 \pi^{-4} * L8r * \pi^{-2} + 64/9/(\text{mass}(3) - \\
& \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^2 \pi^{-4} * \cos^2 \pi^{-4} * L7r * \pi^{-2} - 128/27/(\text{mass}(3) - \\
& \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^3 \pi^{-4} * \cos^2 \pi^{-4} * L8r * \pi^{-2} - 128/9/(\text{mass}(3) \\
& - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^3 \pi^{-4} * \cos^2 \pi^{-4} * L7r * \pi^{-2} + 4/27/(\text{mass}(3) \\
& - \text{mass}(8)) * \ln(4) * F^{-4} * L8r * \pi^{-2} + 4/9/(\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \\
& L7r * \pi^{-2} - 256/81/(\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sin^2 \pi^{-4} * L8r * \pi^{-2} - \\
& 256/27/(\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sin^2 \pi^{-4} * L7r * \pi^{-2} + 256/81/(\text{mass}(3) - \\
& \text{mass}(8)) * \ln(4) * F^{-4} * \sin^4 \pi^{-4} * L8r * \pi^{-2} + 256/27/(\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \\
& \sin^4 \pi^{-4} * L7r * \pi^{-2} - 13/6912/(\text{mass}(3) - \text{mass}(8)) * \ln(4)^2 * F^{-4} * \sqrt{3}^{-1} * \\
& \sin^2 \pi^{-4} * \cos^2 \pi^{-4} + 1/216/(\text{mass}(3) - \text{mass}(8)) * \ln(4)^2 * F^{-4} * \sqrt{3}^{-1} * \\
& \sin^3 \pi^{-4} * \cos^2 \pi^{-4} - 1/9216/(\text{mass}(3) - \text{mass}(8)) * \ln(4)^2 * F^{-4} * \pi^{-4} + \\
& 73/41472/(\text{mass}(3) - \text{mass}(8)) * \ln(4)^2 * F^{-4} * \sin^2 \pi^{-4} - 1/648/(\text{mass}(3) - \\
& \text{mass}(8)) * \ln(4)^2 * F^{-4} * \sin^4 \pi^{-4} - 1/1152/(\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(6) * F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}-1} \sin x \cos x \pi^{-4} - 1/13824 / (\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(6) F^{-4} \pi^{-4} \\
& + 55/20736 / (\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(6) F^{-4} \sin^2 \pi^{-4} - 1/324 / (\text{mass}(3) - \text{mass}(8)) \\
& \ln(4) \ln(6) F^{-4} \sin^4 \pi^{-4} - 13/7776 / (\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} \\
& + 29/7776 / (\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^3 \cos x \pi^{-4} - 1/648 / (\text{mass}(3) - \text{mass}(8)) \\
& \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^5 \cos x \pi^{-4} - 1/6912 / (\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \pi^{-4} \\
& + 25/7776 / (\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sin^2 \pi^{-4} - 5/864 / (\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sin^4 \pi^{-4} \\
& + 5/1944 / (\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sin^6 \pi^{-4} - 64/27 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos x L_8 r \pi^{-2} \\
& - 64/9 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^3 \cos x L_7 r \pi^{-2} + 128/27 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^3 \cos x L_8 r \pi^{-2} \\
& + 128/9 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^3 \cos x L_7 r \pi^{-2} + 8/9 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} L_8 r \pi^{-2} \\
& + 8/3 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} L_7 r \pi^{-2} - 256/81 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sin^2 L_8 r \pi^{-2} - 256/27 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sin^2 L_7 r \pi^{-2} \\
& + 256/81 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sin^4 L_8 r \pi^{-2} + 256/27 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sin^4 L_7 r \pi^{-2} + 19/6912 / (\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} \\
& - 1/216 / (\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin^3 \cos x \pi^{-4} - 23/27648 / (\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \pi^{-4} + 73/41472 / (\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sin^2 \pi^{-4} - 1/648 / (\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sin^4 \pi^{-4} \\
& + 1/1944 / (\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 29/7776 / (\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^3 \cos x \pi^{-4} + 1/648 / (\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^5 \cos x \pi^{-4} - 5/10368 / (\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \pi^{-4} + 25/7776 / (\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sin^2 \pi^{-4} - 5/864 / (\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sin^4 \pi^{-4} + 5/1944 / (\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sin^6 \pi^{-4} + 16/27 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x L_8 r \pi^{-2} + 16/9 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^3 \cos x L_7 r \pi^{-2} + 28/81 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} L_8 r \pi^{-2} + 28/27 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} L_7 r \pi^{-2} - 832/243 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^2 L_8 r \pi^{-2} - 832/81 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^2 L_7 r \pi^{-2} + 1472/243 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^4 L_8 r \pi^{-2} + 1472/81 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^4 L_7 r \pi^{-2} - 640/243 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^6 L_8 r \pi^{-2} - 640/81 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin^6 L_7 r \pi^{-2} - 1/2592 / (\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 5/41472 / (\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \pi^{-4} + 19/11664 / (\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin^2 \pi^{-4} - 47/11664 / (\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin^4 \pi^{-4} + 1/324 / (\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin^6 \pi^{-4} - 1/1458 / (\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin^8 \pi^{-4} - 89/73728 / (\text{mass}(4)) \ln(4)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 13/49152 / (\text{mass}(4)) \ln(4)^2 F^{-4} \pi^{-4} - 13/24576 / (\text{mass}(4)) \ln(4)^2 F^{-4} \sin^2 \pi^{-4} - 65/73728 / (\text{mass}(5)) \ln(4)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 13/49152 / (\text{mass}(5)) \ln(4)^2 F^{-4} \pi^{-4} - 13/24576 / (\text{mass}(5)) \ln(4)^2 F^{-4} \sin^2 \pi^{-4} + 5/24576 / (\text{mass}(6)) \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 127/147456 / (\text{mass}(6)) \ln(6)^2 F^{-4} \pi^{-4} - 13/24576 / (\text{mass}(6)) \ln(6)^2 F^{-4} \sin^2 \pi^{-4} + 13/24576 / (\text{mass}(7)) \ln(6)^2 F^{-4} \pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}-1} \sin x \cos x \pi^{-4} + 95/147456/(\text{mass}(7))^{\ln(6)^2} F^{-4} \pi^{-4} - \\
& 13/24576/(\text{mass}(7))^{\ln(6)^2} F^{-4} \sin^2 \pi^{-4} + 1/1536/(\text{mass}(8))^{\ln(8)^2} F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 29/124416/(\text{mass}(8))^{\ln(8)^2} F^{-4} \pi^{-4} - \\
& 1/373248/(\text{mass}(8))^{\ln(8)^2} F^{-4} \sin^2 \pi^{-4} - 5/23328/(\text{mass}(8))^{\ln(8)^2} F^{-4} \sin^4 \pi^{-4}) \\
& + \text{mud}^4 * (+ 647/62208/(\text{mass}(3))^{\ln(3)^2} F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - \\
& 2479/995328/(\text{mass}(3))^{\ln(3)^2} F^{-4} \pi^{-4} - 83/62208/(\text{mass}(3))^{\ln(3)^2} F^{-4} \sin^2 \pi^{-4} - 5/23328/(\text{mass}(3))^{\ln(3)^2} F^{-4} \sin^4 \pi^{-4} - 1024/27/(\text{mass}(3) \\
& - \text{mass}(8))^{\ln(3)^2} F^{-4} L8r^2 - 2048/9/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} L7r * L8r - \\
& 1024/3/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} L7r^2 + 16384/81/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sin^2 L8r^2 + 32768/27/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sin^2 L7r * L8r + \\
& 16384/9/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sin^2 L7r^2 - 16384/81/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sin^4 L8r^2 - 32768/27/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sin^4 L7r * L8r \\
& - 16384/9/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sin^4 L7r^2 - 8/81/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sqrt{3}^{-1} \sin x \cos x L8r \pi^{-2} - 8/27/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sqrt{3}^{-1} \sin x \cos x L7r \pi^{-2} + 4/81/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} L8r \pi^{-2} + 4/27/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} L7r \pi^{-2} - 128/243/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sin^4 L8r \pi^{-2} - 128/81/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sin^4 L7r \pi^{-2} + 128/243/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sin^6 L8r \pi^{-2} + 128/81/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sin^6 L7r \pi^{-2} + 1/15552/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 1/82944/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \pi^{-4} - 1/23328/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sin^2 \pi^{-4} + 1/23328/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sin^4 \pi^{-4} + 1/2916/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sin^6 \pi^{-4} - 1/2916/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} F^{-4} \sin^8 \pi^{-4} - 1/7776/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(4) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 1/1944/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(4) F^{-4} \sqrt{3}^{-1} \sin^3 \cos x \pi^{-4} + 1/648/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(4) F^{-4} \sqrt{3}^{-1} \sin^5 \cos x \pi^{-4} + 1/62208/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(4) F^{-4} \pi^{-4} + 1/1944/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(4) F^{-4} \sin^4 \pi^{-4} - 1/1944/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(4) F^{-4} \sin^6 \pi^{-4} + 5/15552/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 1/1944/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(6) F^{-4} \sqrt{3}^{-1} \sin^3 \cos x \pi^{-4} - 1/648/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(6) F^{-4} \sqrt{3}^{-1} \sin^5 \cos x \pi^{-4} - 7/62208/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(6) F^{-4} \pi^{-4} + 1/1944/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(6) F^{-4} \sin^4 \pi^{-4} - 1/1944/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(6) F^{-4} \sin^6 \pi^{-4} - 5/124416/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(8) F^{-4} \pi^{-4} + 1/11664/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(8) F^{-4} \sin^2 \pi^{-4} + 7/11664/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(8) F^{-4} \sin^4 \pi^{-4} - 1/729/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(8) F^{-4} \sin^6 \pi^{-4} + 1/1458/(\text{mass}(3) - \text{mass}(8))^{\ln(3)^2} \ln(8) F^{-4} \sin^8 \pi^{-4} + 16/27/(\text{mass}(3) - \text{mass}(8))^{\ln(4)^2} F^{-4} \sqrt{3}^{-1} \sin x \cos x L8r \pi^{-2} + 16/9/(\text{mass}(3) - \text{mass}(8))^{\ln(4)^2} F^{-4} \sqrt{3}^{-1} \sin x \cos x L7r \pi^{-2} - 32/27/(\text{mass}(3) - \text{mass}(8))^{\ln(4)^2} F^{-4} \sqrt{3}^{-1} \sin^3 \cos x L8r \pi^{-2} - 32/9/(\text{mass}(3) - \text{mass}(8))^{\ln(4)^2} F^{-4} \sqrt{3}^{-1} \sin^3 \cos x L7r \pi^{-2} - 32/81/(\text{mass}(3) - \text{mass}(8))^{\ln(4)^2} F^{-4} \sin^2 L8r \pi^{-2} - 32/27/(\text{mass}(3) - \text{mass}(8))^{\ln(4)^2} F^{-4} \sin^2 L7r \pi^{-2} + 32/81/(\text{mass}(3) - \text{mass}(8))^{\ln(4)^2} F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4*\sin x^4*L8r*\pi^{-2} + 32/27/(mass(3) - mass(8))*\ln(4)*F^{-4}*\sin x^4*L7r*\pi^{-2} \\
& - 13/27648/(mass(3) - mass(8))*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& + 1/864/(mass(3) - mass(8))*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 5/55296/(mass(3) - mass(8))*\ln(4)^2*F^{-4}*\pi^{-4} - 23/82944/(mass(3) - \\
& mass(8))*\ln(4)^2*F^{-4}*\sin x^2*\pi^{-4} + 1/2592/(mass(3) - mass(8))*\ln(4)^2*F^{-4} \\
& *4*\sin x^4*\pi^{-4} - 1/4608/(mass(3) - mass(8))*\ln(4)*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& *1*\sin x*\cos x*\pi^{-4} - 5/27648/(mass(3) - mass(8))*\ln(4)*\ln(6)*F^{-4}*\pi^{-4} + \\
& 55/41472/(mass(3) - mass(8))*\ln(4)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} - 1/648/(mass(3) \\
& - mass(8))*\ln(4)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} - 5/7776/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4} \\
& *4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/486/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4} \\
& *4*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/648/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4} \\
& *4*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 1/62208/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4} \\
& *4*\pi^{-4} + 1/1944/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - \\
& 1/972/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 1/1944/(mass(3) - \\
& mass(8))*\ln(4)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 16/27/(mass(3) - mass(8))*\ln(6)*F^{-4} \\
& *4*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 16/9/(mass(3) - mass(8))*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& *1*\sin x*\cos x*L7r*\pi^{-2} + 32/27/(mass(3) - mass(8))*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& *1*\sin x^3*\cos x*L8r*\pi^{-2} + 32/9/(mass(3) - mass(8))*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& *1*\sin x^3*\cos x*L7r*\pi^{-2} + 4/27/(mass(3) - mass(8))*\ln(6)*F^{-4}*L8r*\pi^{-2} \\
& + 4/9/(mass(3) - mass(8))*\ln(6)*F^{-4}*L7r*\pi^{-2} - 32/81/(mass(3) - \\
& mass(8))*\ln(6)*F^{-4}*\sin x^2*L8r*\pi^{-2} - 32/27/(mass(3) - mass(8))*\ln(6)*F^{-4} \\
& *4*\sin x^2*L7r*\pi^{-2} + 32/81/(mass(3) - mass(8))*\ln(6)*F^{-4}*\sin x^4*L8r*\pi^{-2} \\
& + 32/27/(mass(3) - mass(8))*\ln(6)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 19/27648/(mass(3) \\
& - mass(8))*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/864/(mass(3) - \\
& mass(8))*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/18432/(mass(3) - \\
& mass(8))*\ln(6)^2*F^{-4}*\pi^{-4} - 23/82944/(mass(3) - mass(8))*\ln(6)^2*F^{-4} \\
& *4*\sin x^2*\pi^{-4} + 1/2592/(mass(3) - mass(8))*\ln(6)^2*F^{-4}*\sin x^4*\pi^{-4} \\
& + 7/15552/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& - 1/486/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& + 1/648/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} \\
& - 5/62208/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} + 1/1944/(mass(3) - \\
& mass(8))*\ln(6)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 1/972/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4} \\
& *4*\sin x^4*\pi^{-4} + 1/1944/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} \\
& - 4 + 8/81/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} \\
& + 8/27/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} \\
& + 4/81/(mass(3) - mass(8))*\ln(8)*F^{-4}*L8r*\pi^{-2} + 4/27/(mass(3) - \\
& mass(8))*\ln(8)*F^{-4}*L7r*\pi^{-2} - 128/243/(mass(3) - mass(8))*\ln(8)*F^{-4} \\
& *4*\sin x^2*L8r*\pi^{-2} - 128/81/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sin x^2*L7r*\pi^{-2} \\
& + 256/243/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sin x^4*L8r*\pi^{-2} + 256/81/(mass(3) \\
& - mass(8))*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 128/243/(mass(3) - mass(8))*\ln(8)*F^{-4} \\
& *4*\sin x^6*L8r*\pi^{-2} - 128/81/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sin x^6*L7r*\pi^{-2} \\
& - 1/15552/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& - 1/82944/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*\pi^{-4} + 7/23328/(mass(3) - \\
& mass(8))*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} - 23/23328/(mass(3) - mass(8))*\ln(8)^2*F^{-4} \\
& *4*\sin x^4*\pi^{-4} + 1/972/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*\sin x^6*\pi^{-4} - \\
& 1/2916/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*\sin x^8*\pi^{-4} - 25/73728/(mass(4))*\ln(4)^2*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}-1} \sin x \cos x \pi^{-4} + 25/147456 / (\text{mass}(4))^{\ln(4)^2} F^{-4} \pi^{-4} - \\
& 25/73728 / (\text{mass}(4))^{\ln(4)^2} F^{-4} \sin x^2 \pi^{-4} - 13/73728 / (\text{mass}(5))^{\ln(4)^2} F^{-4} \pi^{-4} - \\
& 4^{\sqrt{3}-1} \sin x \cos x \pi^{-4} + 13/147456 / (\text{mass}(5))^{\ln(4)^2} F^{-4} \pi^{-4} - \\
& 13/73728 / (\text{mass}(5))^{\ln(4)^2} F^{-4} \sin x^2 \pi^{-4} + 125/24576 / (\text{mass}(6))^{\ln(6)^2} F^{-4} \pi^{-4} - \\
& 4^{\sqrt{3}-1} \sin x \cos x \pi^{-4} - 283/147456 / (\text{mass}(6))^{\ln(6)^2} F^{-4} \pi^{-4} - \\
& 25/73728 / (\text{mass}(6))^{\ln(6)^2} F^{-4} \sin x^2 \pi^{-4} + 1/24576 / (\text{mass}(7))^{\ln(6)^2} F^{-4} \pi^{-4} - \\
& 4^{\sqrt{3}-1} \sin x \cos x \pi^{-4} + 25/147456 / (\text{mass}(7))^{\ln(6)^2} F^{-4} \pi^{-4} - \\
& 13/73728 / (\text{mass}(7))^{\ln(6)^2} F^{-4} \sin x^2 \pi^{-4} - 11/20736 / (\text{mass}(8))^{\ln(8)^2} F^{-4} \pi^{-4} - \\
& 4^{\sqrt{3}-1} \sin x \cos x \pi^{-4} - 125/995328 / (\text{mass}(8))^{\ln(8)^2} F^{-4} \pi^{-4} - \\
& 5/23328 / (\text{mass}(8))^{\ln(8)^2} F^{-4} \sin x^2 \pi^{-4} + 5/23328 / (\text{mass}(8))^{\ln(8)^2} F^{-4} \sin x^4 \pi^{-4});
\end{aligned}$$

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$$\begin{aligned}
& + \text{mkp}^2 \cdot (+ 2^{\text{HH1b}(1,3,6,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x - \\
& \text{HH1b}(1,3,6,\text{plext.plext}) F^{-4} + 2^{\text{HH1b}(1,3,6,\text{plext.plext})} F^{-4} \sin x^2 + \\
& 4^{\text{HH1b}(1,6,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + 6^{\text{HH1b}(3,1,6,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x - \\
& \text{HH1b}(3,1,6,\text{plext.plext}) F^{-4} + 2^{\text{HH1b}(3,1,6,\text{plext.plext})} F^{-4} \sin x^2 + 10^{\text{HH1b}(3,3,4,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + \\
& 1/2^{\text{HH1b}(3,3,4,\text{plext.plext})} F^{-4} + 50/9^{\text{HH1b}(3,3,4,\text{plext.plext})} F^{-4} \sin x^2 - 32/9^{\text{HH1b}(3,3,4,\text{plext.plext})} F^{-4} \sin x^4 - \\
& 1/2^{\text{HH1b}(4,3,8,\text{plext.plext})} F^{-4} + 32/9^{\text{HH1b}(4,3,8,\text{plext.plext})} F^{-4} \sin x^4 - 32/9^{\text{HH1b}(4,3,8,\text{plext.plext})} F^{-4} \sin x^2 \cos x - \\
& 5/4^{\text{HH1b}(4,8,8,\text{plext.plext})} F^{-4} - 7/9^{\text{HH1b}(4,8,8,\text{plext.plext})} F^{-4} \sin x^2 + 16/9^{\text{HH1b}(4,8,8,\text{plext.plext})} F^{-4} \sin x^4 + \\
& 6^{\text{HH1b}(6,1,8,\text{plext.plext})} F^{-4} - 4^{\sqrt{3}-1} \sin x \cos x - \text{HH1b}(6,1,8,\text{plext.plext}) F^{-4} + 2^{\text{HH1b}(6,1,8,\text{plext.plext})} F^{-4} \sin x^2 - \\
& 8/3^{\text{Hb}(1,3,6,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + 1/2^{\text{Hb}(1,3,6,\text{plext.plext})} F^{-4} - 4/3^{\text{Hb}(1,3,6,\text{plext.plext})} F^{-4} \sin x^2 - \\
& 10/3^{\text{Hb}(1,6,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + 1/6^{\text{Hb}(1,6,8,\text{plext.plext})} F^{-4} - 2/3^{\text{Hb}(1,6,8,\text{plext.plext})} F^{-4} \sin x^2 - \\
& 1/2^{\text{Hb}(3,1,6,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x - 35/9^{\text{Hb}(3,3,4,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x - \\
& 1/8^{\text{Hb}(3,3,4,\text{plext.plext})} F^{-4} - 61/27^{\text{Hb}(3,3,4,\text{plext.plext})} F^{-4} \sin x^2 + 40/27^{\text{Hb}(3,3,4,\text{plext.plext})} F^{-4} \sin x^4 + \\
& 1/12^{\text{Hb}(3,4,8,\text{plext.plext})} F^{-4} - 16/27^{\text{Hb}(3,4,8,\text{plext.plext})} F^{-4} \sin x^2 + 16/27^{\text{Hb}(3,4,8,\text{plext.plext})} F^{-4} \sin x^4 + \\
& 5/4^{\text{Hb}(4,3,3,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + 1/32^{\text{Hb}(4,3,3,\text{plext.plext})} F^{-4} + 11/12^{\text{Hb}(4,3,3,\text{plext.plext})} F^{-4} \sin x^2 - \\
& 2/3^{\text{Hb}(4,3,3,\text{plext.plext})} F^{-4} \sin x^4 + 3/16^{\text{Hb}(4,3,8,\text{plext.plext})} F^{-4} - 4/3^{\text{Hb}(4,3,8,\text{plext.plext})} F^{-4} \sin x^2 + \\
& 4/3^{\text{Hb}(4,3,8,\text{plext.plext})} F^{-4} \sin x^4 - 85/36^{\text{Hb}(4,8,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + 181/288^{\text{Hb}(4,8,8,\text{plext.plext})} F^{-4} + \\
& 53/108^{\text{Hb}(4,8,8,\text{plext.plext})} F^{-4} \sin x^2 - 26/27^{\text{Hb}(4,8,8,\text{plext.plext})} F^{-4} \sin x^4 + 1/2^{\text{Hb}(5,4,4,\text{plext.plext})} F^{-4} - \\
& 1/8^{\text{Hb}(6,1,3,\text{plext.plext})} F^{-4} + 1/2^{\text{Hb}(6,1,3,\text{plext.plext})} F^{-4} \sin x^2 + 3/8^{\text{Hb}(6,1,8,\text{plext.plext})} F^{-4} - \\
& 1/2^{\text{Hb}(6,1,8,\text{plext.plext})} F^{-4} \sin x^2 + 1/4^{\text{Hb}(7,4,6,\text{plext.plext})} F^{-4} + 1/2^{\text{Hb}(8,1,6,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + \\
& 3/4^{\text{H21b}(1,3,6,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + 3/4^{\text{H21b}(1,3,6,\text{plext.plext})} F^{-4} \sin x^2 - \\
& 3/4^{\text{H21b}(1,6,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + 3/4^{\text{H21b}(1,6,8,\text{plext.plext})} F^{-4} \sin x^2 + \\
& 3/4^{\text{H21b}(2,1,4,\text{plext.plext})} F^{-4} - 15/4^{\text{H21b}(3,1,6,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + \\
& 3/4^{\text{H21b}(3,1,6,\text{plext.plext})} F^{-4} - 3/4^{\text{H21b}(3,1,6,\text{plext.plext})} F^{-4} \sin x^2 + 15/4^{\text{H21b}(4,3,3,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x +
\end{aligned}$$

$$\begin{aligned}
& 3/32 * H21b(4,3,3,plext.plext) * F^{-4} + 11/4 * H21b(4,3,3,plext.plext) * F^{-4} * \sin^2 - 2 * H21b(4,3,3,plext.plext) * F^{-4} * \sin^4 + 9/16 * H21b(4,3,8,plext.plext) * F^{-4} \\
& - 4 * H21b(4,3,8,plext.plext) * F^{-4} * \sin^2 + 4 * H21b(4,3,8,plext.plext) * F^{-4} * \sin^4 - 15/4 * H21b(4,8,8,plext.plext) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos + 27/32 * H21b(4,8,8,plext.plext) * F^{-4} \\
& + 5/4 * H21b(4,8,8,plext.plext) * F^{-4} * \sin^2 - 2 * H21b(4,8,8,plext.plext) * F^{-4} * \sin^4 + 3/2 * H21b(5,4,4,plext.plext) * F^{-4} + 3 * H21b(6,1,3,plext.plext) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin * \cos - 3/8 * H21b(6,1,3,plext.plext) * F^{-4} + 3/2 * H21b(6,1,3,plext.plext) * F^{-4} * \sin^2 - 3 * H21b(6,1,8,plext.plext) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos \\
& + 9/8 * H21b(6,1,8,plext.plext) * F^{-4} - 3/2 * H21b(6,1,8,plext.plext) * F^{-4} * \sin^2 + 3/4 * H21b(7,4,6,plext.plext) * F^{-4} + 15/4 * H21b(8,1,6,plext.plext) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos \\
& + 3/4 * H21b(8,1,6,plext.plext) * F^{-4} * \sin^2) \\
& + \text{mkp2}^3 * (- 8/9 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * L8r * \pi^{-2} - 8/3 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * L7r * \pi^{-2} - 4709/442368 * F^{-4} * \pi^{-4} - 763/331776 * F^{-4} * \pi^{-2} \\
& + 8/9 * F^{-4} * L8r * \pi^{-2} + 8/9 * F^{-4} * L7r * \pi^{-2} + 8/9 * F^{-4} * L6r * \pi^{-2} - 8/27 * F^{-4} * L5r * \pi^{-2} - 128 * F^{-4} * L5r * L8r - 256 * F^{-4} * L5r * L6r + 64 * F^{-4} * L5r^2 \\
& - 4/9 * F^{-4} * L4r * \pi^{-2} - 256 * F^{-4} * L4r * L8r - 512 * F^{-4} * L4r * L6r + 256 * F^{-4} * L4r * L5r + 256 * F^{-4} * L4r^2 + 89/432 * F^{-4} * L3r * \pi^{-2} + 61/72 * F^{-4} * L2r * \pi^{-2} \\
& + 1/4 * F^{-4} * L1r * \pi^{-2} + 64 * F^{-4} * CC32 + 32 * F^{-4} * CC31 + 192 * F^{-4} * CC21 + 128 * F^{-4} * CC20 + 96 * F^{-4} * CC19 - 64 * F^{-4} * CC16 - 32 * F^{-4} * CC15 - 32 * F^{-4} * CC14 - 64 * F^{-4} * CC13 \\
& - 32 * F^{-4} * CC12 - 131/13824 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} + 40/9 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * L8r * \pi^{-2} + 20/3 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * L7r * \pi^{-2} \\
& + 8/3 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * L6r * \pi^{-2} - 10/9 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * L5r * \pi^{-2} - 14/9 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * L4r * \pi^{-2} - 10/9 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * L3r * \pi^{-2} \\
& - 4/9 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * L2r * \pi^{-2} - 16/9 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * L1r * \pi^{-2} + 1/648 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos * \pi^{-4} - 32/9 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos * L8r * \pi^{-2} \\
& - 32/3 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos * L7r * \pi^{-2} - 145/31104 * \ln(3) * F^{-4} * \sin^2 * \pi^{-4} - 32/81 * \ln(3) * F^{-4} * \sin^2 * L8r * \pi^{-2} - 32/27 * \ln(3) * F^{-4} * \sin^2 * L7r * \pi^{-2} \\
& + 4/9 * \ln(3) * F^{-4} * \sin^2 * L4r * \pi^{-2} - 7/9 * \ln(3) * F^{-4} * \sin^2 * L3r * \pi^{-2} - 4/9 * \ln(3) * F^{-4} * \sin^2 * L2r * \pi^{-2} - 16/9 * \ln(3) * F^{-4} * \sin^2 * L1r * \pi^{-2} \\
& + 1/1944 * \ln(3) * F^{-4} * \sin^4 * \pi^{-4} + 32/81 * \ln(3) * F^{-4} * \sin^4 * L8r * \pi^{-2} + 32/27 * \ln(3) * F^{-4} * \sin^4 * L7r * \pi^{-2} - 83/41472 * \ln(3)^2 * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} \\
& - 23/10368 * \ln(3)^2 * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos * \pi^{-4} + 1/216 * \ln(3)^2 * F^{-4} * \sqrt{3}^{-1} * \sin^5 * \cos * \pi^{-4} - 41/124416 * \ln(3)^2 * F^{-4} * \sin^2 * \pi^{-4} - 1/10368 * \ln(3)^2 * F^{-4} * \sin^4 * \pi^{-4} \\
& - 1/1944 * \ln(3)^2 * F^{-4} * \sin^6 * \pi^{-4} + 71/20736 * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} + 5/1296 * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos * \pi^{-4} + 1/1728 * \ln(3) * \ln(4) * F^{-4} * \pi^{-4} \\
& - 5/6912 * \ln(3) * \ln(4) * F^{-4} * \sin^2 * \pi^{-4} + 1/432 * \ln(3) * \ln(4) * F^{-4} * \sin^4 * \pi^{-4} - 43/41472 * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} + 1/324 * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos * \pi^{-4} \\
& - 1/1728 * \ln(3) * \ln(6) * F^{-4} * \pi^{-4} + 67/20736 * \ln(3) * \ln(6) * F^{-4} * \sin^2 * \pi^{-4} - 1/324 * \ln(3) * \ln(6) * F^{-4} * \sin^4 * \pi^{-4} - 11/10368 * \ln(3) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin * \cos * \pi^{-4} + 47/5184 * \ln(3) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos * \pi^{-4} \\
& - 1/108 * \ln(3) * \ln(8) * F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}} \pi^{-4} \sin^5 \cos \pi^{-4} - 11/15552 \ln(3) \ln(8) F^{-4} \sin^2 \pi^{-4} - \\
& 5/15552 \ln(3) \ln(8) F^{-4} \sin^4 \pi^{-4} + 1/972 \ln(3) \ln(8) F^{-4} \sin^6 \pi^{-4} - \\
& 4 + 1/1728 \ln(4) F^{-4} \sqrt{3} \pi^{-4} \sin \cos \pi^{-4} - 41/27648 \ln(4) F^{-4} \pi^{-4} - \\
& 2 \ln(4) F^{-4} L_{8r} \pi^{-2} - 4 \ln(4) F^{-4} L_{6r} \pi^{-2} + \ln(4) F^{-4} L_{5r} \pi^{-2} + \\
& 2 \ln(4) F^{-4} L_{4r} \pi^{-2} - 5/4 \ln(4) F^{-4} L_{3r} \pi^{-2} - 7/4 \ln(4) F^{-4} L_{2r} \pi^{-2} - \\
& 5/2 \ln(4) F^{-4} L_{1r} \pi^{-2} + 1/864 \ln(4) F^{-4} \sin^2 \pi^{-4} - 1/512 \ln(4)^2 F^{-4} \pi^{-4} - \\
& 1/1024 \ln(4) \ln(6) F^{-4} \pi^{-4} - 71/20736 \ln(4) \ln(8) F^{-4} \sqrt{3} \pi^{-4} \sin \cos \pi^{-4} - \\
& 5/1296 \ln(4) \ln(8) F^{-4} \sqrt{3} \pi^{-4} \sin^3 \cos \pi^{-4} + 11/6912 \ln(4) \ln(8) F^{-4} \pi^{-4} + \\
& 5/6912 \ln(4) \ln(8) F^{-4} \sin^2 \pi^{-4} - 1/432 \ln(4) \ln(8) F^{-4} \sin^4 \pi^{-4} + 1/864 \ln(6) F^{-4} \sqrt{3} \pi^{-4} \sin \cos \pi^{-4} + \\
& 1/3456 \ln(6) F^{-4} \pi^{-4} - \ln(6) F^{-4} L_{8r} \pi^{-2} - 2 \ln(6) F^{-4} L_{6r} \pi^{-2} + 1/2 \ln(6) F^{-4} L_{5r} \pi^{-2} + 2 \ln(6) F^{-4} L_{4r} \pi^{-2} - \\
& 5/8 \ln(6) F^{-4} L_{3r} \pi^{-2} - 1/2 \ln(6) F^{-4} L_{2r} \pi^{-2} - 2 \ln(6) F^{-4} L_{1r} \pi^{-2} - 1/864 \ln(6) F^{-4} \sin^2 \pi^{-4} + \\
& 43/41472 \ln(6) \ln(8) F^{-4} \sqrt{3} \pi^{-4} \sin \cos \pi^{-4} - 1/324 \ln(6) \ln(8) F^{-4} \sqrt{3} \pi^{-4} \sin^3 \cos \pi^{-4} + \\
& 1/6912 \ln(6) \ln(8) F^{-4} \pi^{-4} - 67/20736 \ln(6) \ln(8) F^{-4} \sin^2 \pi^{-4} + 1/324 \ln(6) \ln(8) F^{-4} \sin^4 \pi^{-4} + \\
& 49/4608 \ln(8) F^{-4} \sqrt{3} \pi^{-4} \sin \cos \pi^{-4} - 40/9 \ln(8) F^{-4} \sqrt{3} \pi^{-4} \sin \cos L_{8r} \pi^{-2} - 20/3 \ln(8) F^{-4} \sqrt{3} \pi^{-4} \sin \cos L_{7r} \pi^{-2} - \\
& 8/3 \ln(8) F^{-4} \sqrt{3} \pi^{-4} \sin \cos L_{6r} \pi^{-2} + 10/9 \ln(8) F^{-4} \sqrt{3} \pi^{-4} \sin \cos L_{5r} \pi^{-2} + 14/9 \ln(8) F^{-4} \sqrt{3} \pi^{-4} \sin \cos L_{4r} \pi^{-2} + \\
& 10/9 \ln(8) F^{-4} \sqrt{3} \pi^{-4} \sin \cos L_{3r} \pi^{-2} + 4/9 \ln(8) F^{-4} \sqrt{3} \pi^{-4} \sin \cos L_{2r} \pi^{-2} + 16/9 \ln(8) F^{-4} \sqrt{3} \pi^{-4} \sin \cos L_{1r} \pi^{-2} - \\
& 1/648 \ln(8) F^{-4} \sqrt{3} \pi^{-4} \sin^3 \cos \pi^{-4} + 32/9 \ln(8) F^{-4} \sqrt{3} \pi^{-4} \sin^3 \cos L_{8r} \pi^{-2} + 32/3 \ln(8) F^{-4} \sqrt{3} \pi^{-4} \sin^3 \cos L_{7r} \pi^{-2} - \\
& 43/10368 \ln(8) F^{-4} \pi^{-4} + 4/9 \ln(8) F^{-4} L_{4r} \pi^{-2} - 7/9 \ln(8) F^{-4} L_{3r} \pi^{-2} - 4/9 \ln(8) F^{-4} L_{2r} \pi^{-2} - 16/9 \ln(8) F^{-4} L_{1r} \pi^{-2} + \\
& 145/31104 \ln(8) F^{-4} \sin^2 \pi^{-4} + 32/81 \ln(8) F^{-4} \sin^2 L_{8r} \pi^{-2} + 32/27 \ln(8) F^{-4} \sin^2 L_{7r} \pi^{-2} - 4/9 \ln(8) F^{-4} \sin^2 L_{4r} \pi^{-2} + 7/9 \ln(8) F^{-4} \sin^2 L_{3r} \pi^{-2} + \\
& 4/9 \ln(8) F^{-4} \sin^2 L_{2r} \pi^{-2} + 16/9 \ln(8) F^{-4} \sin^2 L_{1r} \pi^{-2} - 1/1944 \ln(8) F^{-4} \sin^4 \pi^{-4} - 32/81 \ln(8) F^{-4} \sin^4 L_{8r} \pi^{-2} - 32/27 \ln(8) F^{-4} \sin^4 L_{7r} \pi^{-2} + 127/41472 \ln(8)^2 F^{-4} \sqrt{3} \pi^{-4} \sin \cos \pi^{-4} - 71/10368 \ln(8)^2 F^{-4} \sqrt{3} \pi^{-4} \sin^3 \cos \pi^{-4} + 1/216 \ln(8)^2 F^{-4} \sqrt{3} \pi^{-4} \sin^5 \cos \pi^{-4} - 13/13824 \ln(8)^2 F^{-4} \pi^{-4} + 43/41472 \ln(8)^2 F^{-4} \sin^2 \pi^{-4} + 13/31104 \ln(8)^2 F^{-4} \sin^4 \pi^{-4} - 1/1944 \ln(8)^2 F^{-4} \sin^6 \pi^{-4}) \\
& + \text{mkp}2^4 * (- 121/20736 / (\text{mass}(3)) \ln(3)^2 F^{-4} \sqrt{3} \pi^{-4} \sin \cos \pi^{-4} - 43/10368 / (\text{mass}(3)) \ln(3)^2 F^{-4} \sin^2 \pi^{-4} - 91/13824 / (\text{mass}(4)) \ln(4)^2 F^{-4} \pi^{-4} - 101/55296 / (\text{mass}(5)) \ln(4)^2 F^{-4} \pi^{-4} - 217/110592 / (\text{mass}(6)) \ln(6)^2 F^{-4} \pi^{-4} - 35/110592 / (\text{mass}(7)) \ln(6)^2 F^{-4} \pi^{-4} + 121/20736 / (\text{mass}(8)) \ln(8)^2 F^{-4} \sqrt{3} \pi^{-4} \sin \cos \pi^{-4} - 43/10368 / (\text{mass}(8)) \ln(8)^2 F^{-4} \pi^{-4} + 43/10368 / (\text{mass}(8)) \ln(8)^2 F^{-4} \sin^2 \pi^{-4}) \\
& + \text{mpp}2 * \text{mkp}2 * (- 4 * \text{HH}1\text{b}(1,3,6, \text{plext}, \text{plext}) F^{-4} \sqrt{3} \pi^{-4} \sin \cos - 4 * \text{HH}1\text{b}(3,1,6, \text{plext}, \text{plext}) F^{-4} \sqrt{3} \pi^{-4} \sin \cos - 20/3 * \text{HH}1\text{b}(3,3,4, \text{plext}, \text{plext}) F^{-4} \sqrt{3} \pi^{-4} \sin \cos + 16/3 * \text{HH}1\text{b}(3,3,4, \text{plext}, \text{plext}) F^{-4} \sqrt{3} \pi^{-4} \sin^3 \cos
\end{aligned}$$

$$\begin{aligned}
& -16/9*HH1b(3,3,4,plext.plext)*F^{-4}*sinx^2 + 16/9*HH1b(3,3,4,plext.plext)*F^{-4}*sinx^4 - 8/3*HH1b(4,3,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx*cosx + 16/3*HH1b(4,3,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx^3*cosx - 16/9*HH1b(4,3,8,plext.plext)*F^{-4}*sinx^2 + 16/9*HH1b(4,3,8,plext.plext)*F^{-4}*sinx^4 - 2/3*HH1b(4,8,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx*cosx - 8/3*HH1b(4,8,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx^3*cosx + 8/9*HH1b(4,8,8,plext.plext)*F^{-4}*sinx^2 - 8/9*HH1b(4,8,8,plext.plext)*F^{-4}*sinx^4 - 4*HH1b(6,1,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx*cosx + 19/6*Hb(1,3,6,plext.plext)*F^{-4}*sqrt3^{-1}*sinx*cosx + 1/4*Hb(1,3,6,plext.plext)*F^{-4} - 1/4*Hb(1,3,6,plext.plext)*F^{-4}*sinx^2 + 5/6*Hb(1,6,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx*cosx + 1/4*Hb(1,6,8,plext.plext)*F^{-4}*sinx^2 + 1/4*Hb(2,1,4,plext.plext)*F^{-4} - 1/2*Hb(3,1,6,plext.plext)*F^{-4}*sqrt3^{-1}*sinx*cosx + 1/4*Hb(3,1,6,plext.plext)*F^{-4} - 1/4*Hb(3,1,6,plext.plext)*F^{-4}*sinx^2 + 8/3*Hb(3,3,4,plext.plext)*F^{-4}*sqrt3^{-1}*sinx*cosx - 20/9*Hb(3,3,4,plext.plext)*F^{-4}*sqrt3^{-1}*sinx^3*cosx + 20/27*Hb(3,3,4,plext.plext)*F^{-4}*sinx^2 - 20/27*Hb(3,3,4,plext.plext)*F^{-4}*sinx^4 + 4/9*Hb(3,4,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx*cosx - 8/9*Hb(3,4,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx^3*cosx + 8/27*Hb(3,4,8,plext.plext)*F^{-4}*sinx^2 - 8/27*Hb(3,4,8,plext.plext)*F^{-4}*sinx^4 - Hb(4,3,3,plext.plext)*F^{-4}*sqrt3^{-1}*sinx*cosx + Hb(4,3,3,plext.plext)*F^{-4}*sqrt3^{-1}*sinx^3*cosx - 1/3*Hb(4,3,3,plext.plext)*F^{-4}*sinx^2 + 1/3*Hb(4,3,3,plext.plext)*F^{-4}*sinx^4 + Hb(4,3,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx*cosx - 2*Hb(4,3,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx^3*cosx + 2/3*Hb(4,3,8,plext.plext)*F^{-4}*sinx^2 - 2/3*Hb(4,3,8,plext.plext)*F^{-4}*sinx^4 + 2/9*Hb(4,8,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx*cosx + 13/9*Hb(4,8,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx^3*cosx - 13/27*Hb(4,8,8,plext.plext)*F^{-4}*sinx^2 + 13/27*Hb(4,8,8,plext.plext)*F^{-4}*sinx^4 + 1/2*Hb(8,1,6,plext.plext)*F^{-4}*sqrt3^{-1}*sinx*cosx + 1/4*Hb(8,1,6,plext.plext)*F^{-4}*sinx^2 + 3/2*H21b(1,3,6,plext.plext)*F^{-4}*sqrt3^{-1}*sinx*cosx - 3/2*H21b(1,6,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx^3*cosx + 3/2*H21b(3,1,6,plext.plext)*F^{-4}*sqrt3^{-1}*sinx*cosx - 3*H21b(4,3,3,plext.plext)*F^{-4}*sqrt3^{-1}*sinx^3*cosx - H21b(4,3,3,plext.plext)*F^{-4}*sinx^2 + H21b(4,3,3,plext.plext)*F^{-4}*sinx^4 + 3*H21b(4,3,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx*cosx - 6*H21b(4,3,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx^3*cosx + 2*H21b(4,3,8,plext.plext)*F^{-4}*sinx^2 - 2*H21b(4,3,8,plext.plext)*F^{-4}*sinx^4 + 3*H21b(4,8,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx^3*cosx - H21b(4,8,8,plext.plext)*F^{-4}*sinx^2 + H21b(4,8,8,plext.plext)*F^{-4}*sinx^4 - 3*H21b(6,1,3,plext.plext)*F^{-4}*sqrt3^{-1}*sinx*cosx + 3*H21b(6,1,8,plext.plext)*F^{-4}*sqrt3^{-1}*sinx^3*cosx - 3/2*H21b(8,1,6,plext.plext)*F^{-4}*sqrt3^{-1}*sinx^3*cosx) \\
& + mpp2*mkp2^2 * (+ 8/3*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} + 8*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*pi^{-2} - 19/27648*F^{-4}*pi^{-4} - 73/165888*F^{-4}*pi^{-2} - 8/9*F^{-4}*L8r*pi^{-2} - 16/9*F^{-4}*L7r*pi^{-2} + 2/9*F^{-4}*L6r*pi^{-2} + 4/27*F^{-4}*L5r*pi^{-2} - 128*F^{-4}*L5r*L6r - 1/9*F^{-4}*L4r*pi^{-2} - 128*F^{-4}*L4r*L8r - 512*F^{-4}*L4r*L6r + 128*F^{-4}*L4r*L5r + 256*F^{-4}*L4r^2 - 1/108*F^{-4}*L3r*pi^{-2} - 1/9*F^{-4}*L2r*pi^{-2} + 32*F^{-4}*CC32 + 192*F^{-4}*CC21 - 32*F^{-4}*CC20 - 96*F^{-4}*CC19 - 32*F^{-4}*CC17 + 64*F^{-4}*CC16 - 16*F^{-4}*CC15 + 32*F^{-4}*CC14 - 32*F^{-4}*CC13 + 1/1728*ln(1)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 1/512*ln(1)*F^{-4}*pi^{-4} + 25/13824*ln(1)*ln(3)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 1/864*ln(1)*ln(3)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} - 43/41472*ln(1)*ln(3)*F^{-4}*sinx^2*pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& + 1/2592*\ln(1)*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} - 1/1024*\ln(1)*\ln(4)*F^{-4}*\pi^{-4} \\
& - 1/1024*\ln(1)*\ln(6)*F^{-4}*\pi^{-4} - 25/13824*\ln(1)*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x * \cos x * \pi^{-4} + 1/864*\ln(1)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/1536*\ln(1)*\ln(8)*F^{-4}*\pi^{-4} + 43/41472*\ln(1)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - \\
& 1/2592*\ln(1)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 151/27648*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x * \cos x * \pi^{-4} - 4*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L8r*\pi^{-2} - 34/3*\ln(3)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x * \cos x * L7r*\pi^{-2} + 4*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L6r*\pi^{-2} \\
& + 1/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L5r*\pi^{-2} - 11/3*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x * \cos x * L4r*\pi^{-2} + 4/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L3r*\pi^{-2} + \\
& 2/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L2r*\pi^{-2} + 8/3*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x * \cos x * L1r*\pi^{-2} - 1/432*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 80/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} + 80/3*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x^3*\cos x*L7r*\pi^{-2} - 1/1024*\ln(3)*F^{-4}*\pi^{-4} + 179/82944*\ln(3)*F^{-4} \\
& * \sin x^2*\pi^{-4} + 16/9*\ln(3)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 14/3*\ln(3)*F^{-4} \\
& * \sin x^2*L7r*\pi^{-2} + 4/3*\ln(3)*F^{-4}*\sin x^2*L6r*\pi^{-2} - 1/9*\ln(3)*F^{-4} \\
& * \sin x^2*L5r*\pi^{-2} - 11/9*\ln(3)*F^{-4}*\sin x^2*L4r*\pi^{-2} + 7/18*\ln(3)*F^{-4} \\
& * \sin x^2*L3r*\pi^{-2} + 2/9*\ln(3)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 8/9*\ln(3)*F^{-4} \\
& * \sin x^2*L1r*\pi^{-2} - 1/1296*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} - 16/9*\ln(3)*F^{-4} \\
& * \sin x^4*L8r*\pi^{-2} - 16/3*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 37/9216*\ln(3)^2*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x * \cos x * \pi^{-4} - 7/6912*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& - 1/216*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 35/82944*\ln(3)^2*F^{-4} \\
& * \sin x^2*\pi^{-4} - 25/20736*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} + 1/648*\ln(3)^2*F^{-4} \\
& * \sin x^6*\pi^{-4} + 13/13824*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * \pi^{-4} - \\
& 1/96*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 13/27648*\ln(3)*\ln(4)*F^{-4} \\
& * \pi^{-4} - 49/41472*\ln(3)*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} + 1/2592*\ln(3)*\ln(4)*F^{-4} \\
& * \sin x^4*\pi^{-4} + 71/27648*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * \pi^{-4} - \\
& 5/864*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 5/3456*\ln(3)*\ln(6)*F^{-4} \\
& * \pi^{-4} - 77/82944*\ln(3)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} + 7/2592*\ln(3)*\ln(6)*F^{-4} \\
& * \sin x^4*\pi^{-4} + 7/6912*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * \pi^{-4} - \\
& 11/1152*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/108*\ln(3)*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 1/3072*\ln(3)*\ln(8)*F^{-4}*\pi^{-4} - 17/10368*\ln(3)*\ln(8)*F^{-4} \\
& * \sin x^2*\pi^{-4} + 49/10368*\ln(3)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 1/324*\ln(3)*\ln(8)*F^{-4} \\
& * \sin x^6*\pi^{-4} - 11/3456*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * \pi^{-4} + 1/27648*\ln(4)*F^{-4} \\
& * \pi^{-4} - 5/3456*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} - 13/13824*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x * \cos x * \pi^{-4} + 1/96*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 13/27648*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} + 49/41472*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} \\
& - 1/2592*\ln(4)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 1/384*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x * \cos x * \pi^{-4} - 41/13824*\ln(6)*F^{-4}*\pi^{-4} + 5/3456*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} \\
& - 71/27648*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * \pi^{-4} + 5/864*\ln(6)*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 13/27648*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} + 77/82944*\ln(6)*\ln(8)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 7/2592*\ln(6)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 247/27648*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x * \cos x * \pi^{-4} + 4*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L8r*\pi^{-2} \\
& + 34/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L7r*\pi^{-2} - 4*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x * \cos x * L6r*\pi^{-2} - 1/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L5r*\pi^{-2} + \\
& 11/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L4r*\pi^{-2} - 4/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x * \cos x * L3r*\pi^{-2} - 2/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L2r*\pi^{-2} -
\end{aligned}$$

$$\begin{aligned}
& 8/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + 1/432*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*\pi^{-4} - 80/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - \\
& 80/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} + 17/41472*\ln(8)*F^{-4}*\pi^{-4} - \\
& 2/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L6r*\pi^{-2} - 1/9*\ln(8)*F^{-4} \\
& 4*L5r*\pi^{-2} - 11/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L4r*\pi^{-2} + 7/18*\ln(8)*F^{-4} \\
& 4*L3r*\pi^{-2} + 2/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L2r*\pi^{-2} + 8/9*\ln(8)*F^{-4} \\
& 4*L1r*\pi^{-2} - 179/82944*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 16/9*\ln(8)*F^{-4}*\sin x^2*L8r*\pi^{-2} - \\
& 14/3*\ln(8)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 4/3*\ln(8)*F^{-4}*\sin x^2*L6r*\pi^{-2} + 1/9*\ln(8)*F^{-4} \\
& 4*\sin x^2*L5r*\pi^{-2} + 11/9*\ln(8)*F^{-4}*\sin x^2*L4r*\pi^{-2} - 7/18*\ln(8)*F^{-4} \\
& 4*\sin x^2*L3r*\pi^{-2} - 2/9*\ln(8)*F^{-4}*\sin x^2*L2r*\pi^{-2} - 8/9*\ln(8)*F^{-4} \\
& 4*\sin x^2*L1r*\pi^{-2} + 1/1296*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 16/9*\ln(8)*F^{-4} \\
& 4*\sin x^4*L8r*\pi^{-2} + 16/3*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 139/27648*\ln(8)^2*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 73/6912*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/216*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 7/9216*\ln(8)^2*F^{-4} \\
& 4*\pi^{-4} + 101/82944*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} - 73/20736*\ln(8)^2*F^{-4} \\
& 4*\sin x^4*\pi^{-4} + 1/648*\ln(8)^2*F^{-4}*\sin x^6*\pi^{-4}) \\
& + mpp2^2*mkp2^3 * (+ 95/13824/(mass(3))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& + 43/20736/(mass(3))*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 37/55296/(mass(4))*\ln(4)^2*F^{-4} \\
& 4*\pi^{-4} + 5/27648/(mass(5))*\ln(4)^2*F^{-4}*\pi^{-4} - 11/13824/(mass(6))*\ln(6)^2*F^{-4} \\
& 4*\pi^{-4} - 5/27648/(mass(7))*\ln(6)^2*F^{-4}*\pi^{-4} - 95/13824/(mass(8))*\ln(8)^2*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 43/20736/(mass(8))*\ln(8)^2*F^{-4}*\pi^{-4} - \\
& 43/20736/(mass(8))*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4}) \\
& + mpp2^2 * (+ 2/3*HH1b(3,3,4,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - \\
& 4/3*HH1b(3,3,4,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x - 4/9*HH1b(3,3,4,plext.plext)*F^{-4} \\
& 4*\sin x^2 + 4/9*HH1b(3,3,4,plext.plext)*F^{-4}*\sin x^4 + 2/3*HH1b(4,3,8,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x - 4/3*HH1b(4,3,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x \\
& - 4/9*HH1b(4,3,8,plext.plext)*F^{-4}*\sin x^2 + 4/9*HH1b(4,3,8,plext.plext)*F^{-4} \\
& 4*\sin x^4 - 1/3*HH1b(4,8,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 2/3*HH1b(4,8,8,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x^3*\cos x + 2/9*HH1b(4,8,8,plext.plext)*F^{-4}*\sin x^2 - \\
& 2/9*HH1b(4,8,8,plext.plext)*F^{-4}*\sin x^4 + 1/4*Hb(1,3,6,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x - 1/4*Hb(1,6,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + \\
& 1/4*Hb(3,1,6,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 5/18*Hb(3,3,4,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x + 5/9*Hb(3,3,4,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x \\
& + 5/27*Hb(3,3,4,plext.plext)*F^{-4}*\sin x^2 - 5/27*Hb(3,3,4,plext.plext)*F^{-4} \\
& 4*\sin x^4 - 1/9*Hb(3,4,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 2/9*Hb(3,4,8,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x^3*\cos x + 2/27*Hb(3,4,8,plext.plext)*F^{-4}*\sin x^2 - 2/27*Hb(3,4,8,plext.plext)*F^{-4} \\
& 4*\sin x^4 + 1/8*Hb(4,3,3,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 1/4*Hb(4,3,3,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x^3*\cos x - 1/12*Hb(4,3,3,plext.plext)*F^{-4}*\sin x^2 + 1/12*Hb(4,3,3,plext.plext)*F^{-4} \\
& 4*\sin x^4 - 1/4*Hb(4,3,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 1/2*Hb(4,3,8,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x^3*\cos x + 1/6*Hb(4,3,8,plext.plext)*F^{-4}*\sin x^2 - 1/6*Hb(4,3,8,plext.plext)*F^{-4} \\
& 4*\sin x^4 + 13/72*Hb(4,8,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 13/36*Hb(4,8,8,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x^3*\cos x - 13/108*Hb(4,8,8,plext.plext)*F^{-4}*\sin x^2 + \\
& 13/108*Hb(4,8,8,plext.plext)*F^{-4}*\sin x^4 - 1/4*Hb(8,1,6,plext.plext)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x + 3/8*H21b(4,3,3,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x \\
& - 3/4*H21b(4,3,3,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x - 1/4*H21b(4,3,3,plext.plext)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2 + 1/4^*\text{H21b}(4,3,3,\text{plext.plext})^*F^{-4}*\sin x^4 - 3/4^*\text{H21b}(4,3,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 3/2^*\text{H21b}(4,3,8,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x \\
& + 1/2^*\text{H21b}(4,3,8,\text{plext.plext})^*F^{-4}*\sin x^2 - 1/2^*\text{H21b}(4,3,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^4 + 3/8^*\text{H21b}(4,8,8,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 3/4^*\text{H21b}(4,8,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x^3*\cos x - 1/4^*\text{H21b}(4,8,8,\text{plext.plext})^*F^{-4}*\sin x^2 + 1/4^*\text{H21b}(4,8,8,\text{plext.plext})^*F^{-4}*\sin x^4) \\
& + \text{mpp2}^2*\text{mkp2} * (- 8/3^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 8^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - 13/6144^*F^{-4}*\pi^{-4} - 1/2048^*F^{-4}*\pi^{-2} + \\
& 1/3^*F^{-4}*\text{L8r}*\pi^{-2} + 8/9^*F^{-4}*\text{L7r}*\pi^{-2} - 1/9^*F^{-4}*\text{L6r}*\pi^{-2} - 1/54^*F^{-4} \\
& 4^*\text{L5r}*\pi^{-2} + 1/18^*F^{-4}*\text{L4r}*\pi^{-2} - 128^*F^{-4}*\text{L4r}*\text{L6r} + 64^*F^{-4}*\text{L4r}^2 + \\
& 41/432^*F^{-4}*\text{L3r}*\pi^{-2} + 7/18^*F^{-4}*\text{L2r}*\pi^{-2} + 48^*F^{-4}*\text{CC21} + 48^*F^{-4} \\
& 4^*\text{CC20} + 48^*F^{-4}*\text{CC19} + 16^*F^{-4}*\text{CC17} - 48^*F^{-4}*\text{CC16} - 16^*F^{-4}*\text{CC14} \\
& + 1/1728^*\ln(1)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/2304^*\ln(1)^*F^{-4}*\pi^{-4} - \\
& \ln(1)^*F^{-4}*\text{L8r}*\pi^{-2} - 2^*\ln(1)^*F^{-4}*\text{L6r}*\pi^{-2} + 1/2^*\ln(1)^*F^{-4}*\text{L5r}*\pi^{-2} \\
& + 2^*\ln(1)^*F^{-4}*\text{L4r}*\pi^{-2} - 5/8^*\ln(1)^*F^{-4}*\text{L3r}*\pi^{-2} - 1/2^*\ln(1)^*F^{-4} \\
& 4^*\text{L2r}*\pi^{-2} - 2^*\ln(1)^*F^{-4}*\text{L1r}*\pi^{-2} + 1/13824^*\ln(1)^*\ln(3)^*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*\pi^{-4} + 5/864^*\ln(1)^*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/2048^*\ln(1)^*\ln(3)^*F^{-4}*\pi^{-4} + 41/41472^*\ln(1)^*\ln(3)^*F^{-4}*\sin x^2*\pi^{-4} \\
& - 1/1296^*\ln(1)^*\ln(3)^*F^{-4}*\sin x^4*\pi^{-4} - 1/13824^*\ln(1)^*\ln(8)^*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*\pi^{-4} - 5/864^*\ln(1)^*\ln(8)^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 5/18432^*\ln(1)^*\ln(8)^*F^{-4}*\pi^{-4} - 41/41472^*\ln(1)^*\ln(8)^*F^{-4}*\sin x^2*\pi^{-4} \\
& + 1/1296^*\ln(1)^*\ln(8)^*F^{-4}*\sin x^4*\pi^{-4} - 25/13824^*\ln(3)^*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*\pi^{-4} + 8/3^*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + \\
& 20/3^*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - 2/9^*\ln(3)^*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*L5r*\pi^{-2} - 1/3^*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} - \\
& 64/9^*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - 64/3^*\ln(3)^*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x^3*\cos x*L7r*\pi^{-2} - 1/4608^*\ln(3)^*F^{-4}*\pi^{-4} - 1/2^*\ln(3)^*F^{-4}*\text{L8r}*\pi^{-2} \\
& - \ln(3)^*F^{-4}*\text{L6r}*\pi^{-2} + 1/4^*\ln(3)^*F^{-4}*\text{L5r}*\pi^{-2} + \ln(3)^*F^{-4}*\text{L4r}*\pi^{-2} - \\
& 5/16^*\ln(3)^*F^{-4}*\text{L3r}*\pi^{-2} - 1/4^*\ln(3)^*F^{-4}*\text{L2r}*\pi^{-2} - \ln(3)^*F^{-4}*\text{L1r}*\pi^{-2} \\
& + 31/82944^*\ln(3)^*F^{-4}*\sin x^2*\pi^{-4} - 46/27^*\ln(3)^*F^{-4}*\sin x^2*L8r*\pi^{-2} \\
& - 58/9^*\ln(3)^*F^{-4}*\sin x^2*L7r*\pi^{-2} + 2/3^*\ln(3)^*F^{-4}*\sin x^2*L6r*\pi^{-2} \\
& - 2/9^*\ln(3)^*F^{-4}*\sin x^2*L5r*\pi^{-2} - 13/18^*\ln(3)^*F^{-4}*\sin x^2*L4r*\pi^{-2} \\
& + 19/72^*\ln(3)^*F^{-4}*\sin x^2*L3r*\pi^{-2} + 2/9^*\ln(3)^*F^{-4}*\sin x^2*L2r*\pi^{-2} \\
& + 8/9^*\ln(3)^*F^{-4}*\sin x^2*L1r*\pi^{-2} + 64/27^*\ln(3)^*F^{-4}*\sin x^4*L8r*\pi^{-2} \\
& + 64/9^*\ln(3)^*F^{-4}*\sin x^4*L7r*\pi^{-2} - 113/27648^*\ln(3)^2^*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*\pi^{-4} + 3/512^*\ln(3)^2^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/864^*\ln(3)^2^*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 1/8192^*\ln(3)^2^*F^{-4}*\pi^{-4} \\
& + 19/27648^*\ln(3)^2^*F^{-4}*\sin x^2*\pi^{-4} - 23/41472^*\ln(3)^2^*F^{-4}*\sin x^4*\pi^{-4} \\
& - 1/2592^*\ln(3)^2^*F^{-4}*\sin x^6*\pi^{-4} - 1/2304^*\ln(3)^*\ln(4)^*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*\pi^{-4} + 7/1728^*\ln(3)^*\ln(4)^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/13824^*\ln(3)^*\ln(4)^*F^{-4}*\pi^{-4} + 107/41472^*\ln(3)^*\ln(4)^*F^{-4}*\sin x^2*\pi^{-4} \\
& - 13/5184^*\ln(3)^*\ln(4)^*F^{-4}*\sin x^4*\pi^{-4} - 1/864^*\ln(3)^*\ln(6)^*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*\pi^{-4} + 7/1728^*\ln(3)^*\ln(6)^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 1/13824^*\ln(3)^*\ln(6)^*F^{-4}*\pi^{-4} + 53/41472^*\ln(3)^*\ln(6)^*F^{-4}*\sin x^2*\pi^{-4} \\
& - 7/5184^*\ln(3)^*\ln(6)^*F^{-4}*\sin x^4*\pi^{-4} + 7/13824^*\ln(3)^*\ln(8)^*F^{-4}*\sqrt{3}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x*\cos x*\pi^{-4} - 17/6912*\ln(3)*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 1/432*\ln(3)*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 5/36864*\ln(3)*\ln(8)*F^{-4} \\
& 4*\pi^{-4} + 25/20736*\ln(3)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 41/20736*\ln(3)*\ln(8)*F^{-4} \\
& 4*\sin x^4*\pi^{-4} + 1/1296*\ln(3)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} + 5/1728*\ln(4)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/3456*\ln(4)*F^{-4}*\pi^{-4} + 1/3456*\ln(4)*F^{-4} \\
& 4*\sin x^2*\pi^{-4} + 1/2304*\ln(4)*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 7/1728*\ln(4)*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/13824*\ln(4)*\ln(8)*F^{-4} \\
& 4*\pi^{-4} - 107/41472*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 13/5184*\ln(4)*\ln(8)*F^{-4} \\
& 4*\sin x^4*\pi^{-4} + 1/576*\ln(6)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/3456*\ln(6)*F^{-4} \\
& 4*\pi^{-4} - 1/3456*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} + 1/864*\ln(6)*\ln(8)*F^{-4}\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*\pi^{-4} - 7/1728*\ln(6)*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/13824*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} - 53/41472*\ln(6)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + \\
& 7/5184*\ln(6)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 73/13824*\ln(8)*F^{-4}\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*\pi^{-4} - 8/3*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 20/3*\ln(8)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 2/9*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} \\
& + 1/3*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} + 64/9*\ln(8)*F^{-4}\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*L8r*\pi^{-2} + 64/3*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} \\
& + 13/82944*\ln(8)*F^{-4}*\pi^{-4} + 1/6*\ln(8)*F^{-4}*L8r*\pi^{-2} + 2/3*\ln(8)*F^{-4} \\
& 4*L7r*\pi^{-2} - 1/3*\ln(8)*F^{-4}*L6r*\pi^{-2} + 1/36*\ln(8)*F^{-4}*L5r*\pi^{-2} + \\
& 5/18*\ln(8)*F^{-4}*L4r*\pi^{-2} - 7/144*\ln(8)*F^{-4}*L3r*\pi^{-2} - 1/36*\ln(8)*F^{-4} \\
& 4*L2r*\pi^{-2} - 1/9*\ln(8)*F^{-4}*L1r*\pi^{-2} - 31/82944*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} \\
& + 46/27*\ln(8)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 58/9*\ln(8)*F^{-4}*\sin x^2*L7r*\pi^{-2} \\
& - 2/3*\ln(8)*F^{-4}*\sin x^2*L6r*\pi^{-2} + 2/9*\ln(8)*F^{-4}*\sin x^2*L5r*\pi^{-2} \\
& + 13/18*\ln(8)*F^{-4}*\sin x^2*L4r*\pi^{-2} - 19/72*\ln(8)*F^{-4}*\sin x^2*L3r*\pi^{-2} \\
& - 2/9*\ln(8)*F^{-4}*\sin x^2*L2r*\pi^{-2} - 8/9*\ln(8)*F^{-4}*\sin x^2*L1r*\pi^{-2} \\
& - 64/9*\ln(8)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 64/9*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} \\
& + 11/3072*\ln(8)^2*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 47/13824*\ln(8)^2*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/864*\ln(8)^2*F^{-4}\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} \\
& - 29/221184*\ln(8)^2*F^{-4}*\pi^{-4} - 157/82944*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} + \\
& 35/13824*\ln(8)^2*F^{-4}*\sin x^4*\pi^{-4} - 1/2592*\ln(8)^2*F^{-4}*\sin x^6*\pi^{-4}) \\
& + mpp2^2*mkp2^2 * (- 31/27648/(mass(1))*\ln(1)^2*F^{-4}*\pi^{-4} - 5/27648/(mass(2))*\ln(1)^2*F^{-4} \\
& 4*\pi^{-4} - 89/55296/(mass(3))*\ln(3)^2*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 1/1536/(mass(3))*\ln(3)^2*F^{-4}*\pi^{-4} + 65/165888/(mass(3))*\ln(3)^2*F^{-4} \\
& 4*\sin x^2*\pi^{-4} + 1/27648/(mass(4))*\ln(4)^2*F^{-4}*\pi^{-4} - 1/27648/(mass(5))*\ln(4)^2*F^{-4} \\
& 4*\pi^{-4} + 1/13824/(mass(6))*\ln(6)^2*F^{-4}*\pi^{-4} - 1/13824/(mass(7))*\ln(6)^2*F^{-4} \\
& 4*\pi^{-4} + 89/55296/(mass(8))*\ln(8)^2*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 43/165888/(mass(8))*\ln(8)^2*F^{-4}*\pi^{-4} - 65/165888/(mass(8))*\ln(8)^2*F^{-4} \\
& 4*\sin x^2*\pi^{-4}) \\
& + mpp2^3 * (+ 8/9*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 8/3*F^{-4}\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L7r*\pi^{-2} - 1/864*\ln(1)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 1/13824*\ln(1)*\ln(3)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 7/3456*\ln(1)*\ln(3)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 13/10368*\ln(1)*\ln(3)*F^{-4}*\sin x^2*\pi^{-4} + \\
& 13/10368*\ln(1)*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} - 1/13824*\ln(1)*\ln(8)*F^{-4}\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*\pi^{-4} + 7/3456*\ln(1)*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& + 13/10368*\ln(1)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 13/10368*\ln(1)*\ln(8)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^4*\pi^4 - 37/27648*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^4 - 10/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^2 - 2*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^2 \\
& - 2/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^2 + 2/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^2 + 13/18*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^2 \\
& - 19/72*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^2 - 2/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^2 - 8/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^2 + \\
& 1/1296*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos x*\pi^4 + 16/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos x*L8r*\pi^2 + 16/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos x*L7r*\pi^2 \\
& - 1/3888*\ln(3)*F^{-4}*\sin^2*\pi^4 + 80/81*\ln(3)*F^{-4}*\sin^2*L8r*\pi^2 + 80/27*\ln(3)*F^{-4}*\sin^2*L7r*\pi^2 + 1/3888*\ln(3)*F^{-4}*\sin^4*\pi^4 - \\
& 80/81*\ln(3)*F^{-4}*\sin^4*L8r*\pi^2 - 80/27*\ln(3)*F^{-4}*\sin^4*L7r*\pi^2 + 101/165888*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^4 - 191/82944*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^4 + 1/864*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^4 \\
& - 275/248832*\ln(3)^2*F^{-4}*\sin^2*\pi^4 + 145/82944*\ln(3)^2*F^{-4}*\sin^4*\pi^4 - 5/7776*\ln(3)^2*F^{-4}*\sin^6*\pi^4 - 1/41472*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^4 - 1/10368*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos x*\pi^4 \\
& - 7/10368*\ln(3)*\ln(4)*F^{-4}*\sin^2*\pi^4 + 7/10368*\ln(3)*\ln(4)*F^{-4}*\sin^4*\pi^4 + 25/41472*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^4 - 7/5184*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos x*\pi^4 - 11/82944*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^4 + 95/41472*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos x*\pi^4 \\
& - 1/432*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^5*\cos x*\pi^4 + 115/124416*\ln(3)*\ln(8)*F^{-4}*\sin^2*\pi^4 - 275/124416*\ln(3)*\ln(8)*F^{-4}*\sin^4*\pi^4 + 5/3888*\ln(3)*\ln(8)*F^{-4}*\sin^6*\pi^4 - 1/3456*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^4 + 1/41472*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^4 + 1/10368*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos x*\pi^4 \\
& + 7/10368*\ln(4)*\ln(8)*F^{-4}*\sin^2*\pi^4 - 7/10368*\ln(4)*\ln(8)*F^{-4}*\sin^4*\pi^4 - 1/3456*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^4 - 25/41472*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^4 + 7/5184*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos x*\pi^4 \\
& - 4 + 5/27648*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^4 + 10/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^2 + 2*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^2 + \\
& 2/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^2 - 2/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^2 - 13/18*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^2 \\
& + 19/72*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^2 + 2/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^2 + 8/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^2 - \\
& 1/1296*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos x*\pi^4 - 16/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos x*L8r*\pi^2 - 16/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos x*L7r*\pi^2 \\
& + 1/3888*\ln(8)*F^{-4}*\sin^2*\pi^4 - 80/81*\ln(8)*F^{-4}*\sin^2*L8r*\pi^2 - 80/27*\ln(8)*F^{-4}*\sin^2*L7r*\pi^2 - 1/3888*\ln(8)*F^{-4}*\sin^4*\pi^4 + \\
& 80/81*\ln(8)*F^{-4}*\sin^4*L8r*\pi^2 + 80/27*\ln(8)*F^{-4}*\sin^4*L7r*\pi^2 - 79/165888*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^4 + 1/82944*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^4 + 1/864*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^4 \\
& + 5/27648*\ln(8)^2*F^{-4}*\sin^2*\pi^4 + 115/248832*\ln(8)^2*F^{-4}*\sin^4*\pi^4 - 5/7776*\ln(8)^2*F^{-4}*\sin^6*\pi^4)
\end{aligned}$$

$$\begin{aligned}
& + \text{mpp2}^3*\text{mkp2} * (- 121/110592/(\text{mass}(1))^*\ln(1)^2*F^{-4}*\pi^4 - 95/110592/(\text{mass}(2))^*\ln(1)^2*F^{-4}*\pi^4 \\
& - 47/82944/(\text{mass}(3))^*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^4 - 1/1024/(\text{mass}(3))^*\ln(3)^2*F^{-4}*\pi^4 \\
& + 1/1024/(\text{mass}(3))^*\ln(3)^2*F^{-4}*\pi^4
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2*\pi^{-4} + 47/82944/(\text{mass}(8))^*\ln(8)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& - 1/1024/(\text{mass}(8))^*\ln(8)^2*\text{F}^{-4}*\sin x^2*\pi^{-4}) \\
& + \text{mpp}2^4 * (- 13/27648/(\text{mass}(1))^*\ln(1)^2*\text{F}^{-4}*\pi^{-4} + 13/27648/(\text{mass}(2))^*\ln(1)^2*\text{F}^{-4} \\
& * \pi^{-4} - 1/1024/(\text{mass}(3))^*\ln(3)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 1/1024/(\text{mass}(8))^*\ln(8)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4}) \\
& + \text{mud}*\text{mkp}2 * (- 3*\text{HH}1\text{b}(1,3,6,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x \\
& + \text{HH}1\text{b}(1,3,6,\text{plext.plext})*\text{F}^{-4} - 2*\text{HH}1\text{b}(1,3,6,\text{plext.plext})*\text{F}^{-4}*\sin x^2 - \\
& 3*\text{HH}1\text{b}(3,1,6,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + \text{HH}1\text{b}(3,1,6,\text{plext.plext})*\text{F}^{-4} \\
& - 2*\text{HH}1\text{b}(3,1,6,\text{plext.plext})*\text{F}^{-4}*\sin x^2 - 3*\text{HH}1\text{b}(3,3,4,\text{plext.plext})*\text{F}^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x + 3/2*\text{HH}1\text{b}(3,3,4,\text{plext.plext})*\text{F}^{-4} - 50/9*\text{HH}1\text{b}(3,3,4,\text{plext.plext})*\text{F}^{-4} \\
& * \sin x^2 + 32/9*\text{HH}1\text{b}(3,3,4,\text{plext.plext})*\text{F}^{-4}*\sin x^4 + 1/2*\text{HH}1\text{b}(4,3,8,\text{plext.plext})*\text{F}^{-4} \\
& - 32/9*\text{HH}1\text{b}(4,3,8,\text{plext.plext})*\text{F}^{-4}*\sin x^2 + 32/9*\text{HH}1\text{b}(4,3,8,\text{plext.plext})*\text{F}^{-4} \\
& * \sin x^4 - 3/2*\text{HH}1\text{b}(4,8,8,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 1/4*\text{HH}1\text{b}(4,8,8,\text{plext.plext})*\text{F}^{-4} \\
& + 7/9*\text{HH}1\text{b}(4,8,8,\text{plext.plext})*\text{F}^{-4}*\sin x^2 - 16/9*\text{HH}1\text{b}(4,8,8,\text{plext.plext})*\text{F}^{-4} \\
& * \sin x^4 - 3*\text{HH}1\text{b}(6,1,8,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + \text{HH}1\text{b}(6,1,8,\text{plext.plext})*\text{F}^{-4} \\
& - 2*\text{HH}1\text{b}(6,1,8,\text{plext.plext})*\text{F}^{-4}*\sin x^2 + 2*\text{Hb}(1,3,6,\text{plext.plext})*\text{F}^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x - 2/3*\text{Hb}(1,3,6,\text{plext.plext})*\text{F}^{-4} + 4/3*\text{Hb}(1,3,6,\text{plext.plext})*\text{F}^{-4} \\
& * \sin x^2 + \text{Hb}(1,6,8,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 1/3*\text{Hb}(1,6,8,\text{plext.plext})*\text{F}^{-4} \\
& + 2/3*\text{Hb}(1,6,8,\text{plext.plext})*\text{F}^{-4}*\sin x^2 + 1/2*\text{Hb}(3,1,6,\text{plext.plext})*\text{F}^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x - 1/8*\text{Hb}(3,1,6,\text{plext.plext})*\text{F}^{-4} + 7/6*\text{Hb}(3,3,4,\text{plext.plext})*\text{F}^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x - 43/72*\text{Hb}(3,3,4,\text{plext.plext})*\text{F}^{-4} + 61/27*\text{Hb}(3,3,4,\text{plext.plext})*\text{F}^{-4} \\
& * \sin x^2 - 40/27*\text{Hb}(3,3,4,\text{plext.plext})*\text{F}^{-4}*\sin x^4 - 1/12*\text{Hb}(3,4,8,\text{plext.plext})*\text{F}^{-4} \\
& + 16/27*\text{Hb}(3,4,8,\text{plext.plext})*\text{F}^{-4}*\sin x^2 - 16/27*\text{Hb}(3,4,8,\text{plext.plext})*\text{F}^{-4} \\
& * \sin x^4 - 3/8*\text{Hb}(4,3,3,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 7/32*\text{Hb}(4,3,3,\text{plext.plext})*\text{F}^{-4} \\
& - 11/12*\text{Hb}(4,3,3,\text{plext.plext})*\text{F}^{-4}*\sin x^2 + 2/3*\text{Hb}(4,3,3,\text{plext.plext})*\text{F}^{-4} \\
& * \sin x^4 - 3/16*\text{Hb}(4,3,8,\text{plext.plext})*\text{F}^{-4} + 4/3*\text{Hb}(4,3,8,\text{plext.plext})*\text{F}^{-4} \\
& * \sin x^2 - 4/3*\text{Hb}(4,3,8,\text{plext.plext})*\text{F}^{-4}*\sin x^4 + 17/24*\text{Hb}(4,8,8,\text{plext.plext})*\text{F}^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x - 29/288*\text{Hb}(4,8,8,\text{plext.plext})*\text{F}^{-4} - 53/108*\text{Hb}(4,8,8,\text{plext.plext})*\text{F}^{-4} \\
& * \sin x^2 + 26/27*\text{Hb}(4,8,8,\text{plext.plext})*\text{F}^{-4}*\sin x^4 - 1/4*\text{Hb}(6,1,3,\text{plext.plext})*\text{F}^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x + 1/8*\text{Hb}(6,1,3,\text{plext.plext})*\text{F}^{-4} - 1/2*\text{Hb}(6,1,3,\text{plext.plext})*\text{F}^{-4} \\
& * \sin x^2 + 1/4*\text{Hb}(6,1,8,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 3/8*\text{Hb}(6,1,8,\text{plext.plext})*\text{F}^{-4} \\
& + 1/2*\text{Hb}(6,1,8,\text{plext.plext})*\text{F}^{-4}*\sin x^2 - 1/4*\text{Hb}(7,4,6,\text{plext.plext})*\text{F}^{-4} - \\
& 1/2*\text{Hb}(8,1,6,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 1/8*\text{Hb}(8,1,6,\text{plext.plext})*\text{F}^{-4} \\
& + 9/8*\text{H}21\text{b}(1,3,6,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 3/8*\text{H}21\text{b}(1,3,6,\text{plext.plext})*\text{F}^{-4} \\
& + 3/4*\text{H}21\text{b}(1,3,6,\text{plext.plext})*\text{F}^{-4}*\sin x^2 - 9/8*\text{H}21\text{b}(1,6,8,\text{plext.plext})*\text{F}^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x + 3/8*\text{H}21\text{b}(1,6,8,\text{plext.plext})*\text{F}^{-4} - 3/4*\text{H}21\text{b}(1,6,8,\text{plext.plext})*\text{F}^{-4} \\
& * \sin x^2 + 9/8*\text{H}21\text{b}(3,1,6,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 3/8*\text{H}21\text{b}(3,1,6,\text{plext.plext})*\text{F}^{-4} \\
& + 3/4*\text{H}21\text{b}(3,1,6,\text{plext.plext})*\text{F}^{-4}*\sin x^2 - 9/8*\text{H}21\text{b}(4,3,3,\text{plext.plext})*\text{F}^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x + 21/32*\text{H}21\text{b}(4,3,3,\text{plext.plext})*\text{F}^{-4} - 11/4*\text{H}21\text{b}(4,3,3,\text{plext.plext})*\text{F}^{-4} \\
& * \sin x^2 + 2*\text{H}21\text{b}(4,3,3,\text{plext.plext})*\text{F}^{-4}*\sin x^4 - 9/16*\text{H}21\text{b}(4,3,8,\text{plext.plext})*\text{F}^{-4} \\
& + 4*\text{H}21\text{b}(4,3,8,\text{plext.plext})*\text{F}^{-4}*\sin x^2 - 4*\text{H}21\text{b}(4,3,8,\text{plext.plext})*\text{F}^{-4} \\
& * \sin x^4 + 9/8*\text{H}21\text{b}(4,8,8,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 3/32*\text{H}21\text{b}(4,8,8,\text{plext.plext})*\text{F}^{-4} \\
& - 5/4*\text{H}21\text{b}(4,8,8,\text{plext.plext})*\text{F}^{-4}*\sin x^2 + 2*\text{H}21\text{b}(4,8,8,\text{plext.plext})*\text{F}^{-4} \\
& * \sin x^4 - 9/4*\text{H}21\text{b}(6,1,3,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 3/4*\text{H}21\text{b}(6,1,3,\text{plext.plext})*\text{F}^{-4} \\
& - 3/2*\text{H}21\text{b}(6,1,3,\text{plext.plext})*\text{F}^{-4}*\sin x^2 + 9/4*\text{H}21\text{b}(6,1,8,\text{plext.plext})*\text{F}^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}-1} \sin x \cos x - 3/4 H_{21b}(6,1,8, \text{p1ext.p1ext}) F^{-4} + 3/2 H_{21b}(6,1,8, \text{p1ext.p1ext}) F^{-4} \sin x^2 - 9/8 H_{21b}(8,1,6, \text{p1ext.p1ext}) F^{-4} \sqrt{3}^{-1} \sin x \cos x + 3/8 H_{21b}(8,1,6, \text{p1ext.p1ext}) F^{-4} - 3/4 H_{21b}(8,1,6, \text{p1ext.p1ext}) F^{-4} \sin x^2 \\
& + \text{mud}^* \text{mkp} 2^2 * (+ 16/9 F^{-4} \sqrt{3}^{-1} \sin x \cos x L_{8r} \pi^{-2} + 16/3 F^{-4} \sqrt{3}^{-1} \sin x \cos x L_{7r} \pi^{-2} + 607/110592 F^{-4} \pi^{-4} + 199/165888 F^{-4} \pi^{-2} - 8/9 F^{-4} L_{8r} \pi^{-2} - 20/9 F^{-4} L_{7r} \pi^{-2} - 2/9 F^{-4} L_{6r} \pi^{-2} + 2/27 F^{-4} L_{5r} \pi^{-2} + 128 F^{-4} L_{5r} L_{6r} + 1/9 F^{-4} L_{4r} \pi^{-2} + 128 F^{-4} L_{4r} L_{8r} + 512 F^{-4} L_{4r} L_{6r} - 128 F^{-4} L_{4r} L_{5r} - 256 F^{-4} L_{4r}^2 - 37/216 F^{-4} L_{3r} \pi^{-2} - 13/18 F^{-4} L_{2r} \pi^{-2} - 32 F^{-4} \text{CC}32 - 192 F^{-4} \text{CC}21 - 96 F^{-4} \text{CC}20 - 96 F^{-4} \text{CC}19 - 32 F^{-4} \text{CC}17 + 64 F^{-4} \text{CC}16 + 16 F^{-4} \text{CC}15 + 32 F^{-4} \text{CC}14 + 32 F^{-4} \text{CC}13 + 23/3456 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 16/3 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L_{8r} \pi^{-2} - 28/3 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L_{7r} \pi^{-2} - 4 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L_{6r} \pi^{-2} + 10/9 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L_{5r} \pi^{-2} + 3 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L_{4r} \pi^{-2} + 5/12 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L_{3r} \pi^{-2} - 1/432 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} + 16/3 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x L_{8r} \pi^{-2} + 16 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x L_{7r} \pi^{-2} - 131/55296 \ln(3) F^{-4} \pi^{-4} + 2/3 \ln(3) F^{-4} L_{8r} \pi^{-2} + 1/3 \ln(3) F^{-4} L_{7r} \pi^{-2} + 2/3 \ln(3) F^{-4} L_{6r} \pi^{-2} - 5/18 \ln(3) F^{-4} L_{5r} \pi^{-2} - 7/18 \ln(3) F^{-4} L_{4r} \pi^{-2} - 5/18 \ln(3) F^{-4} L_{3r} \pi^{-2} - 1/9 \ln(3) F^{-4} L_{2r} \pi^{-2} - 4/9 \ln(3) F^{-4} L_{1r} \pi^{-2} + 145/20736 \ln(3) F^{-4} \sin x^2 \pi^{-4} + 16/27 \ln(3) F^{-4} \sin x^2 L_{8r} \pi^{-2} + 16/9 \ln(3) F^{-4} \sin x^2 L_{7r} \pi^{-2} - 2/3 \ln(3) F^{-4} \sin x^2 L_{4r} \pi^{-2} + 7/6 \ln(3) F^{-4} \sin x^2 L_{3r} \pi^{-2} + 2/3 \ln(3) F^{-4} \sin x^2 L_{2r} \pi^{-2} + 8/3 \ln(3) F^{-4} \sin x^2 L_{1r} \pi^{-2} - 1/1296 \ln(3) F^{-4} \sin x^4 \pi^{-4} - 16/27 \ln(3) F^{-4} \sin x^4 L_{8r} \pi^{-2} - 16/9 \ln(3) F^{-4} \sin x^4 L_{7r} \pi^{-2} + 47/20736 \ln(3)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 23/6912 \ln(3)^2 F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} - 1/144 \ln(3)^2 F^{-4} \sqrt{3}^{-1} \sin x^5 \cos x \pi^{-4} - 83/165888 \ln(3)^2 F^{-4} \pi^{-4} + 41/82944 \ln(3)^2 F^{-4} \sin x^2 \pi^{-4} + 1/6912 \ln(3)^2 F^{-4} \sin x^4 \pi^{-4} + 1/1296 \ln(3)^2 F^{-4} \sin x^6 \pi^{-4} - 5/6912 \ln(3) \ln(4) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 5/864 \ln(3) \ln(4) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} + 47/82944 \ln(3) \ln(4) F^{-4} \pi^{-4} + 5/4608 \ln(3) \ln(4) F^{-4} \sin x^2 \pi^{-4} - 1/288 \ln(3) \ln(4) F^{-4} \sin x^4 \pi^{-4} + 7/13824 \ln(3) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 1/216 \ln(3) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} + 149/165888 \ln(3) \ln(6) F^{-4} \pi^{-4} - 67/13824 \ln(3) \ln(6) F^{-4} \sin x^2 \pi^{-4} + 1/216 \ln(3) \ln(6) F^{-4} \sin x^4 \pi^{-4} + 35/20736 \ln(3) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 47/3456 \ln(3) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} + 1/72 \ln(3) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x^5 \cos x \pi^{-4} + 13/41472 \ln(3) \ln(8) F^{-4} \pi^{-4} + 11/10368 \ln(3) \ln(8) F^{-4} \sin x^2 \pi^{-4} + 5/10368 \ln(3) \ln(8) F^{-4} \sin x^4 \pi^{-4} - 1/648 \ln(3) \ln(8) F^{-4} \sin x^6 \pi^{-4} - 1/432 \ln(4) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 59/27648 \ln(4) F^{-4} \pi^{-4} - 1/576 \ln(4) F^{-4} \sin x^2 \pi^{-4} + 1/1024 \ln(4) \ln(6) F^{-4} \pi^{-4} + 5/6912 \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 5/864 \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} - 47/82944 \ln(4) \ln(8) F^{-4} \pi^{-4} - 5/4608 \ln(4) \ln(8) F^{-4} \sin x^2 \pi^{-4} - 47/82944 \ln(4) \ln(8) F^{-4} \sin x^4 \pi^{-4} - 1/864 \ln(6) F^{-4} \sqrt{3}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x*\cos x*\pi^{-4} - 1/3456*\ln(6)*F^{-4}\pi^{-4} + 2*\ln(6)*F^{-4}L8r*\pi^{-2} + \\
& 4*\ln(6)*F^{-4}L6r*\pi^{-2} - \ln(6)*F^{-4}L5r*\pi^{-2} - 4*\ln(6)*F^{-4}L4r*\pi^{-2} + \\
& 5/4*\ln(6)*F^{-4}L3r*\pi^{-2} + \ln(6)*F^{-4}L2r*\pi^{-2} + 4*\ln(6)*F^{-4}L1r*\pi^{-2} \\
& + 1/576*\ln(6)*F^{-4}\sin x^2*\pi^{-4} - 7/13824*\ln(6)*\ln(8)*F^{-4}\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*\pi^{-4} + 1/216*\ln(6)*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin x^3*\cos x*\pi^{-4} + \\
& 49/165888*\ln(6)*\ln(8)*F^{-4}\pi^{-4} + 67/13824*\ln(6)*\ln(8)*F^{-4}\sin x^2*\pi^{-4} \\
& - 1/216*\ln(6)*\ln(8)*F^{-4}\sin x^4*\pi^{-4} - 31/3456*\ln(8)*F^{-4}\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*\pi^{-4} + 16/3*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin x*\cos x*L8r*\pi^{-2} + \\
& 28/3*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin x*\cos x*L7r*\pi^{-2} + 4*\ln(8)*F^{-4}\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L6r*\pi^{-2} - 10/9*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin x*\cos x*L5r*\pi^{-2} \\
& - 3*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin x*\cos x*L4r*\pi^{-2} - 5/12*\ln(8)*F^{-4}\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L3r*\pi^{-2} + 1/432*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin x^3*\cos x*\pi^{-4} - \\
& 16/3*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin x^3*\cos x*L8r*\pi^{-2} - 16*\ln(8)*F^{-4}\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*L7r*\pi^{-2} + 655/165888*\ln(8)*F^{-4}\pi^{-4} + 2/9*\ln(8)*F^{-4} \\
& 4*L8r*\pi^{-2} - \ln(8)*F^{-4}L7r*\pi^{-2} + 2/3*\ln(8)*F^{-4}L6r*\pi^{-2} - 5/18*\ln(8)*F^{-4} \\
& 4*L5r*\pi^{-2} - 19/18*\ln(8)*F^{-4}L4r*\pi^{-2} + 8/9*\ln(8)*F^{-4}L3r*\pi^{-2} + \\
& 5/9*\ln(8)*F^{-4}L2r*\pi^{-2} + 20/9*\ln(8)*F^{-4}L1r*\pi^{-2} - 145/20736*\ln(8)*F^{-4} \\
& 4*\sin x^2*\pi^{-4} - 16/27*\ln(8)*F^{-4}\sin x^2*L8r*\pi^{-2} - 16/9*\ln(8)*F^{-4} \\
& 4*\sin x^2*L7r*\pi^{-2} + 2/3*\ln(8)*F^{-4}\sin x^2*L4r*\pi^{-2} - 7/6*\ln(8)*F^{-4} \\
& 4*\sin x^2*L3r*\pi^{-2} - 2/3*\ln(8)*F^{-4}\sin x^2*L2r*\pi^{-2} - 8/3*\ln(8)*F^{-4} \\
& 4*\sin x^2*L1r*\pi^{-2} + 1/1296*\ln(8)*F^{-4}\sin x^4*\pi^{-4} + 16/27*\ln(8)*F^{-4} \\
& 4*\sin x^4*L8r*\pi^{-2} + 16/9*\ln(8)*F^{-4}\sin x^4*L7r*\pi^{-2} - 41/10368*\ln(8)^2F^{-4} \\
& 4*\sqrt{3}^{-1}\sin x*\cos x*\pi^{-4} + 71/6912*\ln(8)^2F^{-4}\sqrt{3}^{-1}\sin x^3*\cos x*\pi^{-4} \\
& - 1/144*\ln(8)^2F^{-4}\sqrt{3}^{-1}\sin x^5*\cos x*\pi^{-4} + 199/165888*\ln(8)^2F^{-4} \\
& 4*\pi^{-4} - 43/27648*\ln(8)^2F^{-4}\sin x^2*\pi^{-4} - 13/20736*\ln(8)^2F^{-4} \\
& 4*\sin x^4*\pi^{-4} + 1/1296*\ln(8)^2F^{-4}\sin x^6*\pi^{-4}) \\
& + \text{mud}*\text{mkp}2^3 * (+ 361/82944/(\text{mass}(3))^*\ln(3)^2F^{-4}\sqrt{3}^{-1}\sin x*\cos x*\pi^{-4} - \\
& 4 - 121/82944/(\text{mass}(3))^*\ln(3)^2F^{-4}\pi^{-4} + 43/5184/(\text{mass}(3))^*\ln(3)^2F^{-4} \\
& 4*\sin x^2*\pi^{-4} + 29/55296/(\text{mass}(4))^*\ln(4)^2F^{-4}\pi^{-4} - 1/27648/(\text{mass}(5))^*\ln(4)^2F^{-4} \\
& 4*\pi^{-4} + 221/36864/(\text{mass}(6))^*\ln(6)^2F^{-4}\pi^{-4} + 19/36864/(\text{mass}(7))^*\ln(6)^2F^{-4} \\
& 4*\pi^{-4} - 361/82944/(\text{mass}(8))^*\ln(8)^2F^{-4}\sqrt{3}^{-1}\sin x*\cos x*\pi^{-4} + \\
& 7/1024/(\text{mass}(8))^*\ln(8)^2F^{-4}\pi^{-4} - 43/5184/(\text{mass}(8))^*\ln(8)^2F^{-4} \\
& 4*\sin x^2*\pi^{-4}) \\
& + \text{mud}*\text{mpp}2 * (+ \text{HH1b}(1,3,6,\text{plext.plext})*F^{-4}\sqrt{3}^{-1}\sin x*\cos x + \\
& \text{HH1b}(3,1,6,\text{plext.plext})*F^{-4}\sqrt{3}^{-1}\sin x*\cos x + 7/3*\text{HH1b}(3,3,4,\text{plext.plext})*F^{-4} \\
& 4*\sqrt{3}^{-1}\sin x*\cos x - 8/3*\text{HH1b}(3,3,4,\text{plext.plext})*F^{-4}\sqrt{3}^{-1}\sin x^3*\cos x \\
& - 1/6*\text{HH1b}(3,3,4,\text{plext.plext})*F^{-4} + 8/9*\text{HH1b}(3,3,4,\text{plext.plext})*F^{-4} \\
& 4*\sin x^2 - 8/9*\text{HH1b}(3,3,4,\text{plext.plext})*F^{-4}\sin x^4 + 4/3*\text{HH1b}(4,3,8,\text{plext.plext})*F^{-4} \\
& 4*\sqrt{3}^{-1}\sin x*\cos x - 8/3*\text{HH1b}(4,3,8,\text{plext.plext})*F^{-4}\sqrt{3}^{-1}\sin x^3*\cos x \\
& - 1/6*\text{HH1b}(4,3,8,\text{plext.plext})*F^{-4} + 8/9*\text{HH1b}(4,3,8,\text{plext.plext})*F^{-4} \\
& 4*\sin x^2 - 8/9*\text{HH1b}(4,3,8,\text{plext.plext})*F^{-4}\sin x^4 - 1/6*\text{HH1b}(4,8,8,\text{plext.plext})*F^{-4} \\
& 4*\sqrt{3}^{-1}\sin x*\cos x + 4/3*\text{HH1b}(4,8,8,\text{plext.plext})*F^{-4}\sqrt{3}^{-1}\sin x^3*\cos x \\
& + 1/12*\text{HH1b}(4,8,8,\text{plext.plext})*F^{-4} - 4/9*\text{HH1b}(4,8,8,\text{plext.plext})*F^{-4} \\
& 4*\sin x^2 + 4/9*\text{HH1b}(4,8,8,\text{plext.plext})*F^{-4}\sin x^4 + \text{HH1b}(6,1,8,\text{plext.plext})*F^{-4} \\
& 4*\sqrt{3}^{-1}\sin x*\cos x - 13/24*\text{Hb}(1,3,6,\text{plext.plext})*F^{-4}\sqrt{3}^{-1}\sin x*\cos x
\end{aligned}$$

$$\begin{aligned}
& - 1/16*\text{Hb}(1,3,6,\text{plext.plext})*F^{-4} + 1/8*\text{Hb}(1,3,6,\text{plext.plext})*F^{-4}*\sin^2 - \\
& 11/24*\text{Hb}(1,6,8,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos + 1/16*\text{Hb}(1,6,8,\text{plext.plext})*F^{-4} \\
& - 1/8*\text{Hb}(1,6,8,\text{plext.plext})*F^{-4}*\sin^2 + 1/8*\text{Hb}(3,1,6,\text{plext.plext})*F^{-4} \\
& - 4*\sqrt{3}^{-1}*\sin^2*\cos - 1/16*\text{Hb}(3,1,6,\text{plext.plext})*F^{-4} + 1/8*\text{Hb}(3,1,6,\text{plext.plext})*F^{-4} \\
& - 4*\sin^2 - 17/18*\text{Hb}(3,3,4,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos + 10/9*\text{Hb}(3,3,4,\text{plext.plext})*F^{-4} \\
& - 4*\sqrt{3}^{-1}*\sin^3*\cos + 5/72*\text{Hb}(3,3,4,\text{plext.plext})*F^{-4} - 10/27*\text{Hb}(3,3,4,\text{plext.plext})*F^{-4} \\
& - 4*\sin^2 + 10/27*\text{Hb}(3,3,4,\text{plext.plext})*F^{-4}*\sin^4 - 2/9*\text{Hb}(3,4,8,\text{plext.plext})*F^{-4} \\
& - 4*\sqrt{3}^{-1}*\sin^2*\cos + 4/9*\text{Hb}(3,4,8,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& + 1/36*\text{Hb}(3,4,8,\text{plext.plext})*F^{-4} - 4/27*\text{Hb}(3,4,8,\text{plext.plext})*F^{-4}*\sin^2 \\
& + 4/27*\text{Hb}(3,4,8,\text{plext.plext})*F^{-4}*\sin^4 + 3/8*\text{Hb}(4,3,3,\text{plext.plext})*F^{-4} \\
& - 4*\sqrt{3}^{-1}*\sin^2*\cos - 1/2*\text{Hb}(4,3,3,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& - 1/32*\text{Hb}(4,3,3,\text{plext.plext})*F^{-4} + 1/6*\text{Hb}(4,3,3,\text{plext.plext})*F^{-4}*\sin^2 \\
& - 1/6*\text{Hb}(4,3,3,\text{plext.plext})*F^{-4}*\sin^4 - 1/2*\text{Hb}(4,3,8,\text{plext.plext})*F^{-4} \\
& - 4*\sqrt{3}^{-1}*\sin^2*\cos + \text{Hb}(4,3,8,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos + \\
& 1/16*\text{Hb}(4,3,8,\text{plext.plext})*F^{-4} - 1/3*\text{Hb}(4,3,8,\text{plext.plext})*F^{-4}*\sin^2 \\
& + 1/3*\text{Hb}(4,3,8,\text{plext.plext})*F^{-4}*\sin^4 + 1/8*\text{Hb}(4,8,8,\text{plext.plext})*F^{-4} \\
& - 4*\sqrt{3}^{-1}*\sin^2*\cos - 13/18*\text{Hb}(4,8,8,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& - 13/288*\text{Hb}(4,8,8,\text{plext.plext})*F^{-4} + 13/54*\text{Hb}(4,8,8,\text{plext.plext})*F^{-4} \\
& - 4*\sin^2 - 13/54*\text{Hb}(4,8,8,\text{plext.plext})*F^{-4}*\sin^4 + 1/4*\text{Hb}(6,1,3,\text{plext.plext})*F^{-4} \\
& - 4*\sqrt{3}^{-1}*\sin^2*\cos - 1/4*\text{Hb}(6,1,8,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos - \\
& 1/8*\text{Hb}(8,1,6,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos + 1/16*\text{Hb}(8,1,6,\text{plext.plext})*F^{-4} \\
& - 4 - 1/8*\text{Hb}(8,1,6,\text{plext.plext})*F^{-4}*\sin^2 - 3/8*\text{H21b}(1,3,6,\text{plext.plext})*F^{-4} \\
& - 4*\sqrt{3}^{-1}*\sin^2*\cos + 3/8*\text{H21b}(1,6,8,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos \\
& - 3/8*\text{H21b}(3,1,6,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos + 9/8*\text{H21b}(4,3,3,\text{plext.plext})*F^{-4} \\
& - 4*\sqrt{3}^{-1}*\sin^2*\cos - 3/2*\text{H21b}(4,3,3,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& - 3/32*\text{H21b}(4,3,3,\text{plext.plext})*F^{-4} + 1/2*\text{H21b}(4,3,3,\text{plext.plext})*F^{-4} \\
& - 4*\sin^2 - 1/2*\text{H21b}(4,3,3,\text{plext.plext})*F^{-4}*\sin^4 - 3/2*\text{H21b}(4,3,8,\text{plext.plext})*F^{-4} \\
& - 4*\sqrt{3}^{-1}*\sin^2*\cos + 3*\text{H21b}(4,3,8,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& + 3/16*\text{H21b}(4,3,8,\text{plext.plext})*F^{-4} - \text{H21b}(4,3,8,\text{plext.plext})*F^{-4}*\sin^2 \\
& + \text{H21b}(4,3,8,\text{plext.plext})*F^{-4}*\sin^4 + 3/8*\text{H21b}(4,8,8,\text{plext.plext})*F^{-4} \\
& - 4*\sqrt{3}^{-1}*\sin^2*\cos - 3/2*\text{H21b}(4,8,8,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& - 3/32*\text{H21b}(4,8,8,\text{plext.plext})*F^{-4} + 1/2*\text{H21b}(4,8,8,\text{plext.plext})*F^{-4} \\
& - 4*\sin^2 - 1/2*\text{H21b}(4,8,8,\text{plext.plext})*F^{-4}*\sin^4 + 3/4*\text{H21b}(6,1,3,\text{plext.plext})*F^{-4} \\
& - 4*\sqrt{3}^{-1}*\sin^2*\cos - 3/4*\text{H21b}(6,1,8,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos \\
& + 3/8*\text{H21b}(8,1,6,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos) \\
& + \text{mud*mp2*mkp2} * (- 32/9*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos*L8r*\pi^{-2} - 32/3*F^{-4} \\
& - 4*\sqrt{3}^{-1}*\sin^2*\cos*L7r*\pi^{-2} - 7/12288*F^{-4}*\pi^{-4} + 1/4608*F^{-4}*\pi^{-2} \\
& + 10/9*F^{-4}*L8r*\pi^{-2} + 20/9*F^{-4}*L7r*\pi^{-2} + 2/9*F^{-4}*L6r*\pi^{-2} - \\
& 5/27*F^{-4}*L5r*\pi^{-2} - 1/9*F^{-4}*L4r*\pi^{-2} + 256*F^{-4}*L4r*L6r - 128*F^{-4} \\
& - 4*L4r^2 - 1/108*F^{-4}*L3r*\pi^{-2} + 1/18*F^{-4}*L2r*\pi^{-2} - 96*F^{-4}*CC21 + \\
& 32*F^{-4}*CC20 + 96*F^{-4}*CC19 + 32*F^{-4}*CC17 - 32*F^{-4}*CC16 - 32*F^{-4} \\
& - 4*CC14 + 25/13824*\ln(1)*F^{-4}*\pi^{-4} - 55/27648*\ln(1)*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& - 1*\sin^2*\cos*\pi^{-4} + 1/864*\ln(1)*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos*\pi^{-4} + \\
& 1/6144*\ln(1)*\ln(3)*F^{-4}*\pi^{-4} + 43/41472*\ln(1)*\ln(3)*F^{-4}*\sin^2*\pi^{-4} \\
& - 1/2592*\ln(1)*\ln(3)*F^{-4}*\sin^4*\pi^{-4} + 1/1024*\ln(1)*\ln(6)*F^{-4}*\pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& + 55/27648*\ln(1)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/864*\ln(1)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 5/6144*\ln(1)*\ln(8)*F^{-4}*\pi^{-4} - 43/41472*\ln(1)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 1/2592*\ln(1)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 311/55296*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 32/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 35/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - 10/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} + 1/6*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} + 7/2*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} - 5/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} - \ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} - 4*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + 1/432*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 80/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - 80/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} + 5/18432*\ln(3)*F^{-4}*\pi^{-4} - 1/2*\ln(3)*F^{-4}*\sin x^2*\pi^{-2} - 3/2*\ln(3)*F^{-4}*\sin x^2*L7r*\pi^{-2} + 2/3*\ln(3)*F^{-4}*\sin x^2*L6r*\pi^{-2} - 5/9*\ln(3)*F^{-4}*\sin x^2*L4r*\pi^{-2} + 1/18*\ln(3)*F^{-4}*\sin x^2*L3r*\pi^{-2} + 1/18*\ln(3)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 2/9*\ln(3)*F^{-4}*\sin x^2*L1r*\pi^{-2} - 179/82944*\ln(3)*F^{-4}*\sin x^2*\pi^{-4} - 16/9*\ln(3)*F^{-4}*\sin x^2*L8r*\pi^{-2} - 14/3*\ln(3)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 4/3*\ln(3)*F^{-4}*\sin x^2*L6r*\pi^{-2} + 1/9*\ln(3)*F^{-4}*\sin x^2*L5r*\pi^{-2} + 11/9*\ln(3)*F^{-4}*\sin x^2*L4r*\pi^{-2} - 7/18*\ln(3)*F^{-4}*\sin x^2*L3r*\pi^{-2} - 2/9*\ln(3)*F^{-4}*\sin x^2*L2r*\pi^{-2} - 8/9*\ln(3)*F^{-4}*\sin x^2*L1r*\pi^{-2} + 1/1296*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} + 16/9*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} + 16/3*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 551/165888*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 7/6912*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/216*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 23/331776*\ln(3)^2*F^{-4}*\pi^{-4} - 35/82944*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} + 25/20736*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} - 1/648*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} - 41/27648*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/96*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 7/82944*\ln(3)*\ln(4)*F^{-4}*\pi^{-4} + 49/41472*\ln(3)*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} - 1/2592*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} - 49/18432*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 5/864*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 151/82944*\ln(3)*\ln(6)*F^{-4}*\pi^{-4} + 77/82944*\ln(3)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} - 7/2592*\ln(3)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} - 25/20736*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 11/1152*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/108*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 5/165888*\ln(3)*\ln(8)*F^{-4}*\pi^{-4} + 17/10368*\ln(3)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 49/10368*\ln(3)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 1/324*\ln(3)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} + 31/6912*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 7/6912*\ln(4)*F^{-4}*\pi^{-4} + 5/3456*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} + 41/27648*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/96*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 7/82944*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} - 49/41472*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 1/2592*\ln(4)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 17/6912*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 43/13824*\ln(6)*F^{-4}*\pi^{-4} - 5/3456*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} + 49/18432*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 5/864*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 35/41472*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} - 77/82944*\ln(6)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 7/2592*\ln(6)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 21/2048*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 32/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 35/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 10/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} - 1/6*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} - 7/2*\ln(8)*F^{-4}*\sqrt{3}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x*\cos x*L4r*\pi^{-2} + 5/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} \\
& + \ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} + 4*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& *1*\sin x*\cos x*L1r*\pi^{-2} - 1/432*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 80/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} + 80/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& *1*\sin x^3*\cos x*L7r*\pi^{-2} - 193/165888*\ln(8)*F^{-4}*\pi^{-4} + 5/18*\ln(8)*F^{-4} \\
& *L8r*\pi^{-2} + 3/2*\ln(8)*F^{-4}*\pi^{-4} - 2/3*\ln(8)*F^{-4}*\pi^{-4} + 5/18*\ln(8)*F^{-4} \\
& *L8r*\pi^{-2} + 3/2*\ln(8)*F^{-4}*\pi^{-4} - 2/3*\ln(8)*F^{-4}*\pi^{-4} + 5/18*\ln(8)*F^{-4} \\
& *L8r*\pi^{-2} + 1/9*\ln(8)*F^{-4}*\pi^{-4} + 2/3*\ln(8)*F^{-4}*\pi^{-4} - 1/3*\ln(8)*F^{-4} \\
& *L3r*\pi^{-2} - 1/6*\ln(8)*F^{-4}*\pi^{-4} - 2/3*\ln(8)*F^{-4}*\pi^{-4} + 1/9*\ln(8)*F^{-4} \\
& *L3r*\pi^{-2} + 179/82944*\ln(8)*F^{-4}*\pi^{-4} + 16/9*\ln(8)*F^{-4}*\pi^{-4} + 16/9*\ln(8)*F^{-4} \\
& *\sin x^2*\pi^{-4} + 14/3*\ln(8)*F^{-4}*\pi^{-4} + 16/9*\ln(8)*F^{-4}*\pi^{-4} + 16/9*\ln(8)*F^{-4} \\
& *\sin x^2*\pi^{-4} + 4/3*\ln(8)*F^{-4}*\pi^{-4} + 16/9*\ln(8)*F^{-4}*\pi^{-4} + 16/9*\ln(8)*F^{-4} \\
& *\sin x^2*\pi^{-4} - 1/9*\ln(8)*F^{-4}*\pi^{-4} - 11/9*\ln(8)*F^{-4}*\pi^{-4} - 11/9*\ln(8)*F^{-4} \\
& *\pi^{-4} + 7/18*\ln(8)*F^{-4}*\pi^{-4} + 2/9*\ln(8)*F^{-4}*\pi^{-4} + 2/9*\ln(8)*F^{-4}*\pi^{-4} \\
& + 8/9*\ln(8)*F^{-4}*\pi^{-4} - 1/1296*\ln(8)*F^{-4}*\pi^{-4} - 16/9*\ln(8)*F^{-4}*\pi^{-4} \\
& - 16/9*\ln(8)*F^{-4}*\pi^{-4} - 16/3*\ln(8)*F^{-4}*\pi^{-4} - 16/3*\ln(8)*F^{-4}*\pi^{-4} \\
& + 751/165888*\ln(8)^2*\pi^{-4} + 751/165888*\ln(8)^2*\pi^{-4} - 73/6912*\ln(8)^2*\pi^{-4} \\
& - 4*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/216*\ln(8)^2*\pi^{-4} - 4*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} \\
& - 397/331776*\ln(8)^2*\pi^{-4} - 101/82944*\ln(8)^2*\pi^{-4} + 73/20736*\ln(8)^2*\pi^{-4} \\
& - 1/648*\ln(8)^2*\pi^{-4} - 1/648*\ln(8)^2*\pi^{-4} \\
& + \text{mud}*\text{mpp}2*\text{mkp}2^2 * (- 299/27648/(\text{mass}(3))*\ln(3)^2*\pi^{-4}*\sqrt{3}^{-1} \\
& *1*\sin x*\cos x*\pi^{-4} + 43/165888/(\text{mass}(3))*\ln(3)^2*\pi^{-4} - 43/13824/(\text{mass}(3))*\ln(3)^2*\pi^{-4} \\
& - 4*\sin x^2*\pi^{-4} + 1/13824/(\text{mass}(4))*\ln(4)^2*\pi^{-4} - 1/13824/(\text{mass}(5))*\ln(4)^2*\pi^{-4} \\
& - 4*\pi^{-4} + 43/27648/(\text{mass}(6))*\ln(6)^2*\pi^{-4} + 11/27648/(\text{mass}(7))*\ln(6)^2*\pi^{-4} \\
& - 4*\pi^{-4} + 299/27648/(\text{mass}(8))*\ln(8)^2*\pi^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 473/165888/(\text{mass}(8))*\ln(8)^2*\pi^{-4} + 43/13824/(\text{mass}(8))*\ln(8)^2*\pi^{-4} \\
& - 4*\sin x^2*\pi^{-4}) \\
& + \text{mud}*\text{mpp}2^2 * (+ 16/9*\pi^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 16/3*\pi^{-4} \\
& *\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - 1/576*\ln(1)*\pi^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& + 1/6912*\ln(1)*\pi^{-4} + 1/6912*\ln(1)*\ln(3)*\pi^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& - 5/1728*\ln(1)*\ln(3)*\pi^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/18432*\ln(1)*\ln(3)*\pi^{-4} \\
& *4*\pi^{-4} - 41/82944*\ln(1)*\ln(3)*\pi^{-4}*\sin x^2*\pi^{-4} + 1/2592*\ln(1)*\ln(3)*\pi^{-4} \\
& *4*\sin x^4*\pi^{-4} - 1/6912*\ln(1)*\ln(8)*\pi^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 5/1728*\ln(1)*\ln(8)*\pi^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/18432*\ln(1)*\ln(8)*\pi^{-4} \\
& *4*\pi^{-4} + 41/82944*\ln(1)*\ln(8)*\pi^{-4}*\sin x^2*\pi^{-4} - 1/2592*\ln(1)*\ln(8)*\pi^{-4} \\
& *4*\sin x^4*\pi^{-4} - 1/1536*\ln(3)*\pi^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 11/9*\ln(3)*\pi^{-4} \\
& *\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 10/3*\ln(3)*\pi^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} \\
& + 1/3*\ln(3)*\pi^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} + 1/18*\ln(3)*\pi^{-4}*\sqrt{3}^{-1} \\
& *1*\sin x*\cos x*L5r*\pi^{-2} - 1/4*\ln(3)*\pi^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + \\
& 1/16*\ln(3)*\pi^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} + 32/9*\ln(3)*\pi^{-4}*\sqrt{3}^{-1} \\
& *1*\sin x^3*\cos x*L8r*\pi^{-2} + 32/3*\ln(3)*\pi^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} \\
& + 13/110592*\ln(3)*\pi^{-4}*\pi^{-4} + 1/3*\ln(3)*\pi^{-4}*\pi^{-4} + 2/3*\ln(3)*\pi^{-4} \\
& *L7r*\pi^{-2} + 1/6*\ln(3)*\pi^{-4}*\pi^{-4} - 1/18*\ln(3)*\pi^{-4}*\pi^{-4} - 13/72*\ln(3)*\pi^{-4} \\
& *L4r*\pi^{-2} + 19/288*\ln(3)*\pi^{-4}*\pi^{-4} + 1/18*\ln(3)*\pi^{-4} \\
& *L2r*\pi^{-2} + 2/9*\ln(3)*\pi^{-4}*\pi^{-4} - 31/165888*\ln(3)*\pi^{-4}*\sin x^2*\pi^{-4} \\
& + 23/27*\ln(3)*\pi^{-4}*\sin x^2*L8r*\pi^{-2} + 29/9*\ln(3)*\pi^{-4}*\sin x^2*L7r*\pi^{-2} \\
& - 1/3*\ln(3)*\pi^{-4}*\sin x^2*L6r*\pi^{-2} + 1/9*\ln(3)*\pi^{-4}*\sin x^2*L5r*\pi^{-2} +
\end{aligned}$$

$$\begin{aligned}
& 13/36*\ln(3)*F^{-4}*\sin x^2*L4r*\pi^{-2} - 19/144*\ln(3)*F^{-4}*\sin x^2*L3r*\pi^{-2} \\
& - 1/9*\ln(3)*F^{-4}*\sin x^2*L2r*\pi^{-2} - 4/9*\ln(3)*F^{-4}*\sin x^2*L1r*\pi^{-2} \\
& - 32/27*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 32/9*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} \\
& + 211/165888*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 3/1024*\ln(3)^2*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/1728*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} \\
& - 137/663552*\ln(3)^2*F^{-4}*\pi^{-4} - 19/55296*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} + \\
& 23/82944*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} + 1/5184*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} + \\
& 1/1728*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 7/3456*\ln(3)*\ln(4)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/165888*\ln(3)*\ln(4)*F^{-4}*\pi^{-4} - 107/82944*\ln(3)*\ln(4)*F^{-4} \\
& * \sin x^2*\pi^{-4} + 13/10368*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + 59/55296*\ln(3)*\ln(6)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 7/3456*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& - 37/165888*\ln(3)*\ln(6)*F^{-4}*\pi^{-4} - 53/82944*\ln(3)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} \\
& + 7/10368*\ln(3)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} - 31/82944*\ln(3)*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 17/13824*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& - 1/864*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 23/331776*\ln(3)*\ln(8)*F^{-4} \\
& * \pi^{-4} - 25/41472*\ln(3)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 41/41472*\ln(3)*\ln(8)*F^{-4} \\
& * \sin x^4*\pi^{-4} - 1/2592*\ln(3)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 1/1152*\ln(4)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/13824*\ln(4)*F^{-4}*\pi^{-4} - 1/6912*\ln(4)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 1/1728*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 7/3456*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/165888*\ln(4)*\ln(8)*F^{-4} \\
& * \pi^{-4} + 107/82944*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 13/10368*\ln(4)*\ln(8)*F^{-4} \\
& * \sin x^4*\pi^{-4} - 1/1152*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/4608*\ln(6)*F^{-4} \\
& * \pi^{-4} + 1/6912*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} - 59/55296*\ln(6)*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 7/3456*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& + 37/165888*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} + 53/82944*\ln(6)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} \\
& - 7/10368*\ln(6)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 23/13824*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} + 11/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + \\
& 10/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - 1/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L6r*\pi^{-2} - 1/18*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} + \\
& 1/4*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} - 1/16*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L3r*\pi^{-2} - 32/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - \\
& 32/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - 13/110592*\ln(8)*F^{-4}*\pi^{-4} \\
& - 1/3*\ln(8)*F^{-4}*\sin x^2*\pi^{-2} - 2/3*\ln(8)*F^{-4}*\sin x^2*\pi^{-2} - 1/6*\ln(8)*F^{-4} \\
& * \sin x^4*\pi^{-2} + 1/18*\ln(8)*F^{-4}*\sin x^4*\pi^{-2} + 13/72*\ln(8)*F^{-4}*\sin x^4*\pi^{-2} - \\
& 19/288*\ln(8)*F^{-4}*\sin x^4*\pi^{-2} - 1/18*\ln(8)*F^{-4}*\sin x^2*\pi^{-2} - 2/9*\ln(8)*F^{-4} \\
& * \sin x^2*\pi^{-2} + 31/165888*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 23/27*\ln(8)*F^{-4} \\
& * \sin x^2*L8r*\pi^{-2} - 29/9*\ln(8)*F^{-4}*\sin x^2*L7r*\pi^{-2} + 1/3*\ln(8)*F^{-4} \\
& * \sin x^2*L6r*\pi^{-2} - 1/9*\ln(8)*F^{-4}*\sin x^2*L5r*\pi^{-2} - 13/36*\ln(8)*F^{-4} \\
& * \sin x^2*L4r*\pi^{-2} + 19/144*\ln(8)*F^{-4}*\sin x^2*L3r*\pi^{-2} + 1/9*\ln(8)*F^{-4} \\
& * \sin x^2*L2r*\pi^{-2} + 4/9*\ln(8)*F^{-4}*\sin x^2*L1r*\pi^{-2} + 32/27*\ln(8)*F^{-4} \\
& * \sin x^4*L8r*\pi^{-2} + 32/9*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 149/165888*\ln(8)^2*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 47/27648*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& + 1/1728*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 91/663552*\ln(8)^2*F^{-4} \\
& * \pi^{-4} + 157/165888*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} - 35/27648*\ln(8)^2*F^{-4} \\
& * \sin x^4*\pi^{-4} + 1/5184*\ln(8)^2*F^{-4}*\sin x^6*\pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}^* \text{mpp}2^2 * \text{mkp}2 * (+ 19/27648/(\text{mass}(1))^* \ln(1)^2 * F^{-4} * \pi^{-4} + \\
& 1/3456/(\text{mass}(2))^* \ln(1)^2 * F^{-4} * \pi^{-4} - 19/36864/(\text{mass}(3))^* \ln(3)^2 * F^{-4} * \\
& 4 * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 47/331776/(\text{mass}(3))^* \ln(3)^2 * F^{-4} * \pi^{-4} - \\
& 65/165888/(\text{mass}(3))^* \ln(3)^2 * F^{-4} * \sin x^2 * \pi^{-4} - 1/6912/(\text{mass}(6))^* \ln(6)^2 * F^{-4} * \\
& 4 * \pi^{-4} + 1/6912/(\text{mass}(7))^* \ln(6)^2 * F^{-4} * \pi^{-4} + 19/36864/(\text{mass}(8))^* \ln(8)^2 * F^{-4} * \\
& 4 * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - 83/331776/(\text{mass}(8))^* \ln(8)^2 * F^{-4} * \pi^{-4} + \\
& 65/165888/(\text{mass}(8))^* \ln(8)^2 * F^{-4} * \sin x^2 * \pi^{-4}) \\
& + \text{mud}^* \text{mpp}2^3 * (- 1/27648/(\text{mass}(1))^* \ln(1)^2 * F^{-4} * \pi^{-4} + 1/27648/(\text{mass}(2))^* \ln(1)^2 * F^{-4} * \\
& 4 * \pi^{-4} - 97/331776/(\text{mass}(3))^* \ln(3)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& + 1/4096/(\text{mass}(3))^* \ln(3)^2 * F^{-4} * \pi^{-4} - 1/2048/(\text{mass}(3))^* \ln(3)^2 * F^{-4} * \\
& 4 * \sin x^2 * \pi^{-4} + 97/331776/(\text{mass}(8))^* \ln(8)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& - 1/4096/(\text{mass}(8))^* \ln(8)^2 * F^{-4} * \pi^{-4} + 1/2048/(\text{mass}(8))^* \ln(8)^2 * F^{-4} * \\
& 4 * \sin x^2 * \pi^{-4}) \\
& + \text{mud}^2 * (+ 1/2 * \text{HH}1\text{b}(1,3,6, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x \\
& - 1/4 * \text{HH}1\text{b}(1,3,6, \text{plext.plext}) * F^{-4} + 1/2 * \text{HH}1\text{b}(1,3,6, \text{plext.plext}) * F^{-4} * \\
& 4 * \sin x^2 + 1/2 * \text{HH}1\text{b}(3,1,6, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 1/4 * \text{HH}1\text{b}(3,1,6, \text{plext.plext}) * F^{-4} \\
& + 1/2 * \text{HH}1\text{b}(3,1,6, \text{plext.plext}) * F^{-4} * \sin x^2 + 1/2 * \text{HH}1\text{b}(3,3,4, \text{plext.plext}) * F^{-4} * \\
& 4 * \sqrt{3}^{-1} * \sin x * \cos x - 5/12 * \text{HH}1\text{b}(3,3,4, \text{plext.plext}) * F^{-4} + 25/18 * \text{HH}1\text{b}(3,3,4, \text{plext.plext}) * F^{-4} * \\
& 4 * \sin x^2 - 8/9 * \text{HH}1\text{b}(3,3,4, \text{plext.plext}) * F^{-4} * \sin x^4 - 1/6 * \text{HH}1\text{b}(4,3,8, \text{plext.plext}) * F^{-4} * \\
& 4 + 8/9 * \text{HH}1\text{b}(4,3,8, \text{plext.plext}) * F^{-4} * \sin x^2 - 8/9 * \text{HH}1\text{b}(4,3,8, \text{plext.plext}) * F^{-4} * \\
& 4 * \sin x^4 + 1/4 * \text{HH}1\text{b}(4,8,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 1/24 * \text{HH}1\text{b}(4,8,8, \text{plext.plext}) * F^{-4} \\
& - 7/36 * \text{HH}1\text{b}(4,8,8, \text{plext.plext}) * F^{-4} * \sin x^2 + 4/9 * \text{HH}1\text{b}(4,8,8, \text{plext.plext}) * F^{-4} * \\
& 4 * \sin x^4 + 1/2 * \text{HH}1\text{b}(6,1,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 1/4 * \text{HH}1\text{b}(6,1,8, \text{plext.plext}) * F^{-4} \\
& + 1/2 * \text{HH}1\text{b}(6,1,8, \text{plext.plext}) * F^{-4} * \sin x^2 - 1/3 * \text{Hb}(1,3,6, \text{plext.plext}) * F^{-4} * \\
& 4 * \sqrt{3}^{-1} * \sin x * \cos x + 1/6 * \text{Hb}(1,3,6, \text{plext.plext}) * F^{-4} - 1/3 * \text{Hb}(1,3,6, \text{plext.plext}) * F^{-4} * \\
& 4 * \sin x^2 - 1/6 * \text{Hb}(1,6,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x + 1/12 * \text{Hb}(1,6,8, \text{plext.plext}) * F^{-4} \\
& - 1/6 * \text{Hb}(1,6,8, \text{plext.plext}) * F^{-4} * \sin x^2 - 7/36 * \text{Hb}(3,3,4, \text{plext.plext}) * F^{-4} * \\
& 4 * \sqrt{3}^{-1} * \sin x * \cos x + 1/6 * \text{Hb}(3,3,4, \text{plext.plext}) * F^{-4} - 61/108 * \text{Hb}(3,3,4, \text{plext.plext}) * F^{-4} * \\
& 4 * \sin x^2 + 10/27 * \text{Hb}(3,3,4, \text{plext.plext}) * F^{-4} * \sin x^4 + 1/36 * \text{Hb}(3,4,8, \text{plext.plext}) * F^{-4} * \\
& 4 - 4/27 * \text{Hb}(3,4,8, \text{plext.plext}) * F^{-4} * \sin x^2 + 4/27 * \text{Hb}(3,4,8, \text{plext.plext}) * F^{-4} * \\
& 4 * \sin x^4 + 1/16 * \text{Hb}(4,3,3, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 1/16 * \text{Hb}(4,3,3, \text{plext.plext}) * F^{-4} \\
& + 11/48 * \text{Hb}(4,3,3, \text{plext.plext}) * F^{-4} * \sin x^2 - 1/6 * \text{Hb}(4,3,3, \text{plext.plext}) * F^{-4} * \\
& 4 * \sin x^4 + 1/16 * \text{Hb}(4,3,8, \text{plext.plext}) * F^{-4} - 1/3 * \text{Hb}(4,3,8, \text{plext.plext}) * F^{-4} * \\
& 4 * \sin x^2 + 1/3 * \text{Hb}(4,3,8, \text{plext.plext}) * F^{-4} * \sin x^4 - 17/144 * \text{Hb}(4,8,8, \text{plext.plext}) * F^{-4} * \\
& 4 * \sqrt{3}^{-1} * \sin x * \cos x + 1/72 * \text{Hb}(4,8,8, \text{plext.plext}) * F^{-4} + 53/432 * \text{Hb}(4,8,8, \text{plext.plext}) * F^{-4} * \\
& 4 * \sin x^2 - 13/54 * \text{Hb}(4,8,8, \text{plext.plext}) * F^{-4} * \sin x^4 + 1/8 * \text{Hb}(6,1,3, \text{plext.plext}) * F^{-4} * \\
& 4 * \sqrt{3}^{-1} * \sin x * \cos x - 1/16 * \text{Hb}(6,1,3, \text{plext.plext}) * F^{-4} + 1/8 * \text{Hb}(6,1,3, \text{plext.plext}) * F^{-4} * \\
& 4 * \sin x^2 - 1/8 * \text{Hb}(6,1,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x + 1/16 * \text{Hb}(6,1,8, \text{plext.plext}) * F^{-4} \\
& - 1/8 * \text{Hb}(6,1,8, \text{plext.plext}) * F^{-4} * \sin x^2 - 3/16 * \text{H}21\text{b}(1,3,6, \text{plext.plext}) * F^{-4} * \\
& 4 * \sqrt{3}^{-1} * \sin x * \cos x + 3/32 * \text{H}21\text{b}(1,3,6, \text{plext.plext}) * F^{-4} - 3/16 * \text{H}21\text{b}(1,3,6, \text{plext.plext}) * F^{-4} * \\
& 4 * \sin x^2 + 3/16 * \text{H}21\text{b}(1,6,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 3/32 * \text{H}21\text{b}(1,6,8, \text{plext.plext}) * F^{-4} \\
& + 3/16 * \text{H}21\text{b}(1,6,8, \text{plext.plext}) * F^{-4} * \sin x^2 - 3/16 * \text{H}21\text{b}(3,1,6, \text{plext.plext}) * F^{-4} * \\
& 4 * \sqrt{3}^{-1} * \sin x * \cos x + 3/32 * \text{H}21\text{b}(3,1,6, \text{plext.plext}) * F^{-4} - 3/16 * \text{H}21\text{b}(3,1,6, \text{plext.plext}) * F^{-4} * \\
& 4 * \sin x^2 + 3/16 * \text{H}21\text{b}(4,3,3, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 3/16 * \text{H}21\text{b}(4,3,3, \text{plext.plext}) * F^{-4} \\
& + 11/16 * \text{H}21\text{b}(4,3,3, \text{plext.plext}) * F^{-4} * \sin x^2 - 1/2 * \text{H}21\text{b}(4,3,3, \text{plext.plext}) * F^{-4} *
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^4 + 3/16^*H21b(4,3,8,plext.plext)^*F^{-4} - H21b(4,3,8,plext.plext)^*F^{-4} \\
& 4^*\sin x^2 + H21b(4,3,8,plext.plext)^*F^{-4}*\sin x^4 - 3/16^*H21b(4,8,8,plext.plext)^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 5/16^*H21b(4,8,8,plext.plext)^*F^{-4}*\sin x^2 - 1/2^*H21b(4,8,8,plext.plext)^*F^{-4} \\
& 4^*\sin x^4 + 3/8^*H21b(6,1,3,plext.plext)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 3/16^*H21b(6,1,3,plext.plext)^*F^{-4} \\
& 4 + 3/8^*H21b(6,1,3,plext.plext)^*F^{-4}*\sin x^2 - 3/8^*H21b(6,1,8,plext.plext)^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 3/16^*H21b(6,1,8,plext.plext)^*F^{-4} - 3/8^*H21b(6,1,8,plext.plext)^*F^{-4} \\
& 4^*\sin x^2 + 3/16^*H21b(8,1,6,plext.plext)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 3/32^*H21b(8,1,6,plext.plext)^*F^{-4} \\
& 4 + 3/16^*H21b(8,1,6,plext.plext)^*F^{-4}*\sin x^2) \\
& + \text{mod}^2*\text{mkp2} * (- 8/9^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 8/3^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - 13/6144^*F^{-4}*\pi^{-4} - 1/2048^*F^{-4}*\pi^{-2} \\
& 2 + 1/3^*F^{-4}*L8r*\pi^{-2} + 8/9^*F^{-4}*L7r*\pi^{-2} - 1/9^*F^{-4}*L6r*\pi^{-2} \\
& - 1/54^*F^{-4}*L5r*\pi^{-2} + 1/18^*F^{-4}*L4r*\pi^{-2} - 128^*F^{-4}*L4r*L6r + \\
& 64^*F^{-4}*L4r^2 + 41/432^*F^{-4}*L3r*\pi^{-2} + 7/18^*F^{-4}*L2r*\pi^{-2} + 48^*F^{-4} \\
& 4^*CC21 + 48^*F^{-4}^*CC20 + 48^*F^{-4}^*CC19 + 16^*F^{-4}^*CC17 - 48^*F^{-4}^*CC16 - 16^*F^{-4}^*CC14 - 47/13824^*\ln(3)^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 20/9^*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 4^*\ln(3)^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 4/3^*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} \\
& - 4/9^*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} - \ln(3)^*F^{-4}*\sqrt{3}^{-1} \\
& 4^*\sin x*\cos x*L4r*\pi^{-2} - 1/4^*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} + \\
& 1/864^*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 8/3^*\ln(3)^*F^{-4}*\sqrt{3}^{-1} \\
& 4^*\sin x^3*\cos x*L8r*\pi^{-2} - 8^*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} + \\
& 265/165888^*\ln(3)^*F^{-4}*\pi^{-4} - 10/27^*\ln(3)^*F^{-4}^*L8r*\pi^{-2} - 5/18^*\ln(3)^*F^{-4} \\
& 4^*L7r*\pi^{-2} - 2/3^*\ln(3)^*F^{-4}^*L6r*\pi^{-2} + 5/36^*\ln(3)^*F^{-4}^*L5r*\pi^{-2} + \\
& 17/36^*\ln(3)^*F^{-4}^*L4r*\pi^{-2} + 1/9^*\ln(3)^*F^{-4}^*L3r*\pi^{-2} + 1/36^*\ln(3)^*F^{-4} \\
& 4^*L2r*\pi^{-2} + 1/9^*\ln(3)^*F^{-4}^*L1r*\pi^{-2} - 145/41472^*\ln(3)^*F^{-4}*\sin x^2*\pi^{-4} \\
& - 8/27^*\ln(3)^*F^{-4}*\sin x^2*L8r*\pi^{-2} - 8/9^*\ln(3)^*F^{-4}*\sin x^2*L7r*\pi^{-2} \\
& + 1/3^*\ln(3)^*F^{-4}*\sin x^2*L4r*\pi^{-2} - 7/12^*\ln(3)^*F^{-4}*\sin x^2*L3r*\pi^{-2} \\
& - 1/3^*\ln(3)^*F^{-4}*\sin x^2*L2r*\pi^{-2} - 4/3^*\ln(3)^*F^{-4}*\sin x^2*L1r*\pi^{-2} \\
& + 1/2592^*\ln(3)^*F^{-4}*\sin x^4*\pi^{-4} + 8/27^*\ln(3)^*F^{-4}*\sin x^4*L8r*\pi^{-2} \\
& + 8/9^*\ln(3)^*F^{-4}*\sin x^4*L7r*\pi^{-2} - 125/82944^*\ln(3)^2^*F^{-4}*\sqrt{3}^{-1} \\
& 4^*\sin x*\cos x*\pi^{-4} - 23/13824^*\ln(3)^2^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 1/288^*\ln(3)^2^*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 251/663552^*\ln(3)^2^*F^{-4} \\
& 4^*\pi^{-4} - 41/165888^*\ln(3)^2^*F^{-4}*\sin x^2*\pi^{-4} - 1/13824^*\ln(3)^2^*F^{-4} \\
& 4^*\sin x^4*\pi^{-4} - 1/2592^*\ln(3)^2^*F^{-4}*\sin x^6*\pi^{-4} + 1/3456^*\ln(3)^*\ln(4)^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 5/1728^*\ln(3)^*\ln(4)^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& 4 - 25/165888^*\ln(3)^*\ln(4)^*F^{-4}*\pi^{-4} - 5/9216^*\ln(3)^*\ln(4)^*F^{-4}*\sin x^2*\pi^{-4} \\
& + 1/576^*\ln(3)^*\ln(4)^*F^{-4}*\sin x^4*\pi^{-4} + 1/6912^*\ln(3)^*\ln(6)^*F^{-4}*\sqrt{3}^{-1} \\
& 4^*\sin x*\cos x*\pi^{-4} + 1/432^*\ln(3)^*\ln(6)^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 5/10368^*\ln(3)^*\ln(6)^*F^{-4}*\pi^{-4} + 67/27648^*\ln(3)^*\ln(6)^*F^{-4}*\sin x^2*\pi^{-4} \\
& - 1/432^*\ln(3)^*\ln(6)^*F^{-4}*\sin x^4*\pi^{-4} - 43/41472^*\ln(3)^*\ln(8)^*F^{-4}*\sqrt{3}^{-1} \\
& 4^*\sin x*\cos x*\pi^{-4} + 47/6912^*\ln(3)^*\ln(8)^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/144^*\ln(3)^*\ln(8)^*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 23/331776^*\ln(3)^*\ln(8)^*F^{-4} \\
& 4^*\pi^{-4} - 11/20736^*\ln(3)^*\ln(8)^*F^{-4}*\sin x^2*\pi^{-4} - 5/20736^*\ln(3)^*\ln(8)^*F^{-4} \\
& 4^*\sin x^4*\pi^{-4} + 1/1296^*\ln(3)^*\ln(8)^*F^{-4}*\sin x^6*\pi^{-4} + 1/576^*\ln(4)^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/1728^*\ln(4)^*F^{-4}*\pi^{-4} + 1/1152^*\ln(4)^*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2*\pi^{-4} - 1/3456*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 5/1728*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 25/165888*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} \\
& + 5/9216*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 1/576*\ln(4)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} \\
& + 1/6912*\ln(6)*F^{-4}*\pi^{-4} - \ln(6)*F^{-4}*L8r*\pi^{-2} - 2*\ln(6)*F^{-4}*L6r*\pi^{-2} \\
& + 1/2*\ln(6)*F^{-4}*L5r*\pi^{-2} + 2*\ln(6)*F^{-4}*L4r*\pi^{-2} - 5/8*\ln(6)*F^{-4}*L3r*\pi^{-2} \\
& - 1/2*\ln(6)*F^{-4}*L2r*\pi^{-2} - 2*\ln(6)*F^{-4}*L1r*\pi^{-2} - 1/1152*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} \\
& - 1/6912*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/432*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& - 23/82944*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} - 67/27648*\ln(6)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} \\
& + 1/432*\ln(6)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 7/1536*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& - 20/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 4*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} \\
& - 4/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} + 4/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} \\
& + \ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + 1/4*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} \\
& - 1/864*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 8/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} \\
& + 8*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - 275/165888*\ln(8)*F^{-4}*\pi^{-4} \\
& + 1/27*\ln(8)*F^{-4}*L8r*\pi^{-2} + 17/18*\ln(8)*F^{-4}*L7r*\pi^{-2} - 2/3*\ln(8)*F^{-4}*L6r*\pi^{-2} \\
& + 5/36*\ln(8)*F^{-4}*L5r*\pi^{-2} + 29/36*\ln(8)*F^{-4}*L4r*\pi^{-2} - 17/36*\ln(8)*F^{-4}*L3r*\pi^{-2} \\
& - 11/36*\ln(8)*F^{-4}*L2r*\pi^{-2} - 11/9*\ln(8)*F^{-4}*L1r*\pi^{-2} + 145/41472*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} \\
& + 8/27*\ln(8)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 8/9*\ln(8)*F^{-4}*\sin x^2*L7r*\pi^{-2} \\
& - 1/3*\ln(8)*F^{-4}*\sin x^2*L4r*\pi^{-2} + 7/12*\ln(8)*F^{-4}*\sin x^2*L3r*\pi^{-2} \\
& + 1/3*\ln(8)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 4/3*\ln(8)*F^{-4}*\sin x^2*L1r*\pi^{-2} \\
& - 1/2592*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 8/27*\ln(8)*F^{-4}*\sin x^4*L8r*\pi^{-2} \\
& - 8/9*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 211/82944*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& - 71/13824*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/288*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} \\
& - 131/221184*\ln(8)^2*F^{-4}*\pi^{-4} + 43/55296*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} + 13/41472*\ln(8)^2*F^{-4}*\sin x^4*\pi^{-4} \\
& - 1/2592*\ln(8)^2*F^{-4}*\sin x^6*\pi^{-4}) \\
& + \text{mud}^2*\text{mkp}2^2 * (- 55/27648/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& + 377/331776/(\text{mass}(3))*\ln(3)^2*F^{-4}*\pi^{-4} - 43/6912/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} \\
& + 1/27648/(\text{mass}(4))*\ln(4)^2*F^{-4}*\pi^{-4} - 1/27648/(\text{mass}(5))*\ln(4)^2*F^{-4}*\pi^{-4} \\
& - 727/110592/(\text{mass}(6))*\ln(6)^2*F^{-4}*\pi^{-4} + 43/110592/(\text{mass}(7))*\ln(6)^2*F^{-4}*\pi^{-4} \\
& + 55/27648/(\text{mass}(8))*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1687/331776/(\text{mass}(8))*\ln(8)^2*F^{-4}*\pi^{-4} \\
& + 43/6912/(\text{mass}(8))*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4}) \\
& + \text{mud}^2*\text{mpp}2 * (+ 8/9*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 8/3*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} \\
& - 1/1728*\ln(1)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/6912*\ln(1)*F^{-4}*\pi^{-4} - 1/6144*\ln(1)*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& - 1/3456*\ln(1)*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 13/110592*\ln(1)*\ln(3)*F^{-4}*\pi^{-4} \\
& - 43/165888*\ln(1)*\ln(3)*F^{-4}*\sin x^2*\pi^{-4} + 1/10368*\ln(1)*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} \\
& + 1/6144*\ln(1)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/3456*\ln(1)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& - 13/110592*\ln(1)*\ln(8)*F^{-4}*\pi^{-4} + 43/165888*\ln(1)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 1/10368*\ln(1)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} \\
& + 121/110592*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 2/3*\ln(3)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}-1} \sin x \cos x L_{8r} \pi^{-2} - 13/6 \ln(3) F^{-4\sqrt{3}-1} \sin x \cos x L_{7r} \pi^{-2} \\
& + 1/3 \ln(3) F^{-4\sqrt{3}-1} \sin x \cos x L_{6r} \pi^{-2} - 1/36 \ln(3) F^{-4\sqrt{3}-1} \sin x \cos x L_{5r} \pi^{-2} \\
& - 5/12 \ln(3) F^{-4\sqrt{3}-1} \sin x \cos x L_{4r} \pi^{-2} + 7/24 \ln(3) F^{-4\sqrt{3}-1} \sin x \cos x L_{3r} \pi^{-2} \\
& + 1/6 \ln(3) F^{-4\sqrt{3}-1} \sin x \cos x L_{2r} \pi^{-2} + 2/3 \ln(3) F^{-4\sqrt{3}-1} \sin x \cos x L_{1r} \pi^{-2} \\
& - 1/1728 \ln(3) F^{-4\sqrt{3}-1} \sin^3 \cos x \pi^{-4} + 20/9 \ln(3) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{8r} \pi^{-2} \\
& + 20/3 \ln(3) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{7r} \pi^{-2} - 115/663552 \ln(3) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{6r} \pi^{-2} \\
& + 4/27 \ln(3) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{5r} \pi^{-2} + 19/36 \ln(3) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{4r} \pi^{-2} \\
& - 1/6 \ln(3) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{3r} \pi^{-2} + 1/72 \ln(3) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{2r} \pi^{-2} \\
& - 1/9 \ln(3) F^{-4\sqrt{3}-1} \sin^3 \cos x L_{1r} \pi^{-2} + 179/331776 \ln(3) F^{-4\sqrt{3}-1} \sin^2 \cos^2 \pi^{-4} \\
& + 4/9 \ln(3) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{8r} \pi^{-2} + 7/6 \ln(3) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{7r} \pi^{-2} \\
& + 1/3 \ln(3) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{6r} \pi^{-2} - 1/36 \ln(3) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{5r} \pi^{-2} \\
& - 11/36 \ln(3) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{4r} \pi^{-2} + 7/72 \ln(3) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{3r} \pi^{-2} \\
& + 1/18 \ln(3) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{2r} \pi^{-2} + 2/9 \ln(3) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{1r} \pi^{-2} \\
& - 1/5184 \ln(3) F^{-4\sqrt{3}-1} \sin^4 \pi^{-4} - 4/9 \ln(3) F^{-4\sqrt{3}-1} \sin^4 L_{8r} \pi^{-2} \\
& - 4/3 \ln(3) F^{-4\sqrt{3}-1} \sin^4 L_{7r} \pi^{-2} + 239/331776 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x \pi^{-4} \\
& - 7/27648 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{8r} \pi^{-2} - 1/864 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{7r} \pi^{-2} \\
& - 113/663552 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{6r} \pi^{-2} - 35/331776 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{5r} \pi^{-2} \\
& - 25/82944 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{4r} \pi^{-2} + 1/2592 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{3r} \pi^{-2} \\
& + 13/18432 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{2r} \pi^{-2} + 1/384 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{1r} \pi^{-2} \\
& - 7/331776 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin x \cos x \pi^{-4} - 49/165888 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin x \cos x L_{8r} \pi^{-2} \\
& + 1/10368 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin x \cos x L_{7r} \pi^{-2} + 5/12288 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin x \cos x L_{6r} \pi^{-2} \\
& - 283/663552 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin x \cos x L_{5r} \pi^{-2} - 77/331776 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin x \cos x L_{4r} \pi^{-2} \\
& + 7/10368 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin x \cos x L_{3r} \pi^{-2} + 23/82944 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin x \cos x L_{2r} \pi^{-2} \\
& + 1/432 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin x \cos x L_{1r} \pi^{-2} - 7/165888 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^2 \cos^2 \pi^{-4} \\
& + 49/41472 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{8r} \pi^{-2} + 1/1296 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{7r} \pi^{-2} \\
& - 1/1536 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{6r} \pi^{-2} - 1/13824 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{5r} \pi^{-2} \\
& - 13/18432 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{4r} \pi^{-2} + 5/27648 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{3r} \pi^{-2} \\
& - 5/13824 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{2r} \pi^{-2} + 1/384 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{1r} \pi^{-2} \\
& + 49/165888 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^4 \pi^{-4} - 1/10368 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^4 L_{8r} \pi^{-2} \\
& - 7/13824 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^4 L_{7r} \pi^{-2} + 1/3072 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^4 L_{6r} \pi^{-2} \\
& + 5/13824 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^4 L_{5r} \pi^{-2} - 5/12288 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^4 L_{4r} \pi^{-2} \\
& + 5/3456 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^4 L_{3r} \pi^{-2} + 283/663552 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^4 L_{2r} \pi^{-2} \\
& + 77/331776 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^4 L_{1r} \pi^{-2} - 83/36864 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^2 \cos^2 \pi^{-4} \\
& - 7/10368 \ln(3)^2 \ln(4) F^{-4\sqrt{3}-1} \sin^2 \cos^2 L_{8r} \pi^{-2} + 2/3 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{8r} \pi^{-2} \\
& + 13/6 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{7r} \pi^{-2} - 1/3 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{6r} \pi^{-2} \\
& + 1/36 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{5r} \pi^{-2} + 5/12 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{4r} \pi^{-2} \\
& - 7/24 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{3r} \pi^{-2} - 1/6 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{2r} \pi^{-2} \\
& - 2/3 \ln(3)^2 F^{-4\sqrt{3}-1} \sin x \cos x L_{1r} \pi^{-2} + 1/1728 \ln(3)^2 F^{-4\sqrt{3}-1} \sin^3 \cos x \pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x^3*\cos x*\pi^{-4} - 20/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - \\
& 20/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} + 115/663552*\ln(8)*F^{-4}*\pi^{-4} - \\
& 4/27*\ln(8)*F^{-4}*L8r*\pi^{-2} - 19/36*\ln(8)*F^{-4}*L7r*\pi^{-2} + 1/6*\ln(8)*F^{-4}*L6r*\pi^{-2} - \\
& 1/72*\ln(8)*F^{-4}*L5r*\pi^{-2} - 11/72*\ln(8)*F^{-4}*L4r*\pi^{-2} + 7/144*\ln(8)*F^{-4}*L3r*\pi^{-2} + 1/36*\ln(8)*F^{-4}*L2r*\pi^{-2} \\
& + 1/9*\ln(8)*F^{-4}*L1r*\pi^{-2} - 179/331776*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 4/9*\ln(8)*F^{-4}*\sin x^2*L8r*\pi^{-2} - \\
& 7/6*\ln(8)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 1/3*\ln(8)*F^{-4}*\sin x^2*L6r*\pi^{-2} + 1/36*\ln(8)*F^{-4}*\sin x^2*L5r*\pi^{-2} + \\
& 11/36*\ln(8)*F^{-4}*\sin x^2*L4r*\pi^{-2} - 7/72*\ln(8)*F^{-4}*\sin x^2*L3r*\pi^{-2} - 1/18*\ln(8)*F^{-4}*\sin x^2*L2r*\pi^{-2} - \\
& 2/9*\ln(8)*F^{-4}*\sin x^2*L1r*\pi^{-2} + 1/5184*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 4/9*\ln(8)*F^{-4}*\sin x^4*L8r*\pi^{-2} + \\
& 4/3*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 331/331776*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 73/27648*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/864*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + \\
& 47/221184*\ln(8)^2*F^{-4}*\pi^{-4} + 101/331776*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} - 73/82944*\ln(8)^2*F^{-4}*\sin x^4*\pi^{-4} \\
& + 1/2592*\ln(8)^2*F^{-4}*\sin x^6*\pi^{-4}) \\
& + \text{mud}^2*\text{mpp}2*\text{mkp}2 * (+ 31/6912/(\text{mass}(3))^*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 5/6912/(\text{mass}(3))^*\ln(3)^2*F^{-4}*\pi^{-4} + 43/27648/(\text{mass}(3))^*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - \\
& 5/6912/(\text{mass}(6))^*\ln(6)^2*F^{-4}*\pi^{-4} - 7/27648/(\text{mass}(7))^*\ln(6)^2*F^{-4}*\pi^{-4} - \\
& 31/6912/(\text{mass}(8))^*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 23/27648/(\text{mass}(8))^*\ln(8)^2*F^{-4}*\pi^{-4} - \\
& 43/27648/(\text{mass}(8))^*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4}) \\
& + \text{mud}^2*\text{mpp}2^2 * (+ 1/13824/(\text{mass}(1))^*\ln(1)^2*F^{-4}*\pi^{-4} - 1/13824/(\text{mass}(2))^*\ln(1)^2*F^{-4}*\pi^{-4} - \\
& 31/73728/(\text{mass}(3))^*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 65/1327104/(\text{mass}(3))^*\ln(3)^2*F^{-4}*\pi^{-4} + \\
& 65/663552/(\text{mass}(3))^*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} + 1/13824/(\text{mass}(6))^*\ln(6)^2*F^{-4}*\pi^{-4} - 1/13824/(\text{mass}(7))^*\ln(6)^2*F^{-4}*\pi^{-4} + \\
& 31/73728/(\text{mass}(8))^*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 65/1327104/(\text{mass}(8))^*\ln(8)^2*F^{-4}*\pi^{-4} - \\
& 65/663552/(\text{mass}(8))^*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4}) \\
& + \text{mud}^3 * (+ 17/27648*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 2/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - \\
& 2/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - 1/18*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L4r*\pi^{-2} + 7/72*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L3r*\pi^{-2} + \\
& 1/18*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L2r*\pi^{-2} + 2/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L1r*\pi^{-2} - 1/5184*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 4/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} + 4/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - 47/165888*\ln(3)*F^{-4}*\pi^{-4} + \\
& 1/54*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} + 1/18*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} + 1/36*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L4r*\pi^{-2} - \\
& 7/144*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L3r*\pi^{-2} - 1/36*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L2r*\pi^{-2} - 1/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L1r*\pi^{-2} + \\
& 145/248832*\ln(3)*F^{-4}*\sin x^2*\pi^{-4} + 4/81*\ln(3)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 4/27*\ln(3)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 1/18*\ln(3)*F^{-4}*\sin x^2*L4r*\pi^{-2} + \\
& 7/72*\ln(3)*F^{-4}*\sin x^2*L3r*\pi^{-2} + 1/18*\ln(3)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 2/9*\ln(3)*F^{-4}*\sin x^2*L1r*\pi^{-2} - 1/15552*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} - \\
& 4/81*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 4/27*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 49/331776*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x*\cos x*\pi^{-4} + 23/82944*\ln(3)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/1728*\ln(3)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 19/331776*\ln(3)^2*\text{F}^{-4} \\
& 4*\pi^{-4} + 41/995328*\ln(3)^2*\text{F}^{-4}*\sin x^2*\pi^{-4} + 1/82944*\ln(3)^2*\text{F}^{-4} \\
& 4*\sin x^4*\pi^{-4} + 1/15552*\ln(3)^2*\text{F}^{-4}*\sin x^6*\pi^{-4} + 7/165888*\ln(3)*\ln(4)*\text{F}^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 5/10368*\ln(3)*\ln(4)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& 4 + 5/331776*\ln(3)*\ln(4)*\text{F}^{-4}*\pi^{-4} + 5/55296*\ln(3)*\ln(4)*\text{F}^{-4}*\sin x^2*\pi^{-4} \\
& 4 - 1/3456*\ln(3)*\ln(4)*\text{F}^{-4}*\sin x^4*\pi^{-4} + 29/165888*\ln(3)*\ln(6)*\text{F}^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/2592*\ln(3)*\ln(6)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& 4 + 19/331776*\ln(3)*\ln(6)*\text{F}^{-4}*\pi^{-4} - 67/165888*\ln(3)*\ln(6)*\text{F}^{-4}*\sin x^2*\pi^{-4} \\
& 4 + 1/2592*\ln(3)*\ln(6)*\text{F}^{-4}*\sin x^4*\pi^{-4} + 19/82944*\ln(3)*\ln(8)*\text{F}^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 47/41472*\ln(3)*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& 4 + 1/864*\ln(3)*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 1/36864*\ln(3)*\ln(8)*\text{F}^{-4} \\
& 4*\pi^{-4} + 11/124416*\ln(3)*\ln(8)*\text{F}^{-4}*\sin x^2*\pi^{-4} + 5/124416*\ln(3)*\ln(8)*\text{F}^{-4} \\
& 4*\sin x^4*\pi^{-4} - 1/7776*\ln(3)*\ln(8)*\text{F}^{-4}*\sin x^6*\pi^{-4} - 1/6912*\ln(4)*\text{F}^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/13824*\ln(4)*\text{F}^{-4}*\pi^{-4} - 1/6912*\ln(4)*\text{F}^{-4} \\
& 4*\sin x^2*\pi^{-4} - 7/165888*\ln(4)*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 5/10368*\ln(4)*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 5/331776*\ln(4)*\ln(8)*\text{F}^{-4} \\
& 4*\pi^{-4} - 5/55296*\ln(4)*\ln(8)*\text{F}^{-4}*\sin x^2*\pi^{-4} + 1/3456*\ln(4)*\ln(8)*\text{F}^{-4} \\
& 4*\sin x^4*\pi^{-4} + 1/6912*\ln(6)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/13824*\ln(6)*\text{F}^{-4} \\
& 4*\pi^{-4} + 1/6912*\ln(6)*\text{F}^{-4}*\sin x^2*\pi^{-4} - 29/165888*\ln(6)*\ln(8)*\text{F}^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/2592*\ln(6)*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& 4 - 19/331776*\ln(6)*\ln(8)*\text{F}^{-4}*\pi^{-4} + 67/165888*\ln(6)*\ln(8)*\text{F}^{-4}*\sin x^2*\pi^{-4} \\
& 4 - 1/2592*\ln(6)*\ln(8)*\text{F}^{-4}*\sin x^4*\pi^{-4} - 17/27648*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*\pi^{-4} + 2/9*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + \\
& 2/3*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 1/18*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L4r*\pi^{-2} - 7/72*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} - \\
& 1/18*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} - 2/9*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L1r*\pi^{-2} + 1/5184*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 4/9*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*L8r*\pi^{-2} - 4/3*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*L7r*\pi^{-2} + 47/165888*\ln(8)*\text{F}^{-4}*\pi^{-4} - 1/54*\ln(8)*\text{F}^{-4} \\
& 4*L8r*\pi^{-2} - 1/18*\ln(8)*\text{F}^{-4}*\pi^{-4} - 1/36*\ln(8)*\text{F}^{-4}*\pi^{-4} + 1/9*\ln(8)*\text{F}^{-4} \\
& 7/144*\ln(8)*\text{F}^{-4}*\pi^{-4} + 1/36*\ln(8)*\text{F}^{-4}*\pi^{-4} + 1/9*\ln(8)*\text{F}^{-4} \\
& 4*L1r*\pi^{-2} - 145/248832*\ln(8)*\text{F}^{-4}*\sin x^2*\pi^{-4} - 4/81*\ln(8)*\text{F}^{-4} \\
& 4*\sin x^2*L8r*\pi^{-2} - 4/27*\ln(8)*\text{F}^{-4}*\sin x^2*L7r*\pi^{-2} + 1/18*\ln(8)*\text{F}^{-4} \\
& 4*\sin x^2*L4r*\pi^{-2} - 7/72*\ln(8)*\text{F}^{-4}*\sin x^2*L3r*\pi^{-2} - 1/18*\ln(8)*\text{F}^{-4} \\
& 4*\sin x^2*L2r*\pi^{-2} - 2/9*\ln(8)*\text{F}^{-4}*\sin x^2*L1r*\pi^{-2} + 1/15552*\ln(8)*\text{F}^{-4} \\
& 4*\sin x^4*\pi^{-4} + 4/81*\ln(8)*\text{F}^{-4}*\sin x^4*L8r*\pi^{-2} + 4/27*\ln(8)*\text{F}^{-4} \\
& 4*\sin x^4*L7r*\pi^{-2} - 125/331776*\ln(8)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& + 71/82944*\ln(8)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/1728*\ln(8)^2*\text{F}^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 7/82944*\ln(8)^2*\text{F}^{-4}*\pi^{-4} - 43/331776*\ln(8)^2*\text{F}^{-4} \\
& 4*\sin x^2*\pi^{-4} - 13/248832*\ln(8)^2*\text{F}^{-4}*\sin x^4*\pi^{-4} + 1/15552*\ln(8)^2*\text{F}^{-4} \\
& 4*\sin x^6*\pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}^3*\text{mkp}2 * (+ 53/82944/(\text{mass}(3))*\ln(3)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& - 91/165888/(\text{mass}(3))*\ln(3)^2*\text{F}^{-4}*\pi^{-4} + 43/20736/(\text{mass}(3))*\ln(3)^2*\text{F}^{-4} \\
& 4*\sin x^2*\pi^{-4} + 37/12288/(\text{mass}(6))*\ln(6)^2*\text{F}^{-4}*\pi^{-4} - 13/12288/(\text{mass}(7))*\ln(6)^2*\text{F}^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4\pi^4 - 53/82944/(\text{mass}(8))^{\ln(8)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^4} + \\
& 253/165888/(\text{mass}(8))^{\ln(8)^2 F^{-4} \pi^4} - 43/20736/(\text{mass}(8))^{\ln(8)^2 F^{-4} \sin^2 \pi^4} \\
& + \text{mud}^3 \text{mpp}^2 * (- 43/55296/(\text{mass}(3))^{\ln(3)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^4} - \\
& 4 + 43/331776/(\text{mass}(3))^{\ln(3)^2 F^{-4} \pi^4} - 43/165888/(\text{mass}(3))^{\ln(3)^2 F^{-4} \sin^2 \pi^4} \\
& - 1/27648/(\text{mass}(6))^{\ln(6)^2 F^{-4} \pi^4} + 1/27648/(\text{mass}(7))^{\ln(6)^2 F^{-4} \pi^4} \\
& + 43/55296/(\text{mass}(8))^{\ln(8)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^4} - \\
& 43/331776/(\text{mass}(8))^{\ln(8)^2 F^{-4} \pi^4} + 43/165888/(\text{mass}(8))^{\ln(8)^2 F^{-4} \sin^2 \pi^4}) \\
& + \text{mud}^4 * (- 43/165888/(\text{mass}(3))^{\ln(3)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^4} \\
& + 43/331776/(\text{mass}(3))^{\ln(3)^2 F^{-4} \pi^4} - 43/165888/(\text{mass}(3))^{\ln(3)^2 F^{-4} \sin^2 \pi^4} \\
& - 13/27648/(\text{mass}(6))^{\ln(6)^2 F^{-4} \pi^4} + 13/27648/(\text{mass}(7))^{\ln(6)^2 F^{-4} \pi^4} \\
& + 43/165888/(\text{mass}(8))^{\ln(8)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^4} - \\
& 43/331776/(\text{mass}(8))^{\ln(8)^2 F^{-4} \pi^4} + 43/165888/(\text{mass}(8))^{\ln(8)^2 F^{-4} \sin^2 \pi^4}); \\
& \text{Neutral kaon: Mass666} = \\
& + \text{mkp}^2 * (- 2^{\text{HH1b}(2,3,4,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x - \\
& \text{HH1b}(2,3,4,\text{plext.plext}) F^{-4} + 2^{\text{HH1b}(2,3,4,\text{plext.plext})} F^{-4} \sin^2 - \\
& 4^{\text{HH1b}(2,4,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x - 6^{\text{HH1b}(3,2,4,\text{plext.plext})} F^{-4} \\
& - 4^{\sqrt{3}^{-1} \sin x \cos x} - \text{HH1b}(3,2,4,\text{plext.plext}) F^{-4} + 2^{\text{HH1b}(3,2,4,\text{plext.plext})} F^{-4} \\
& - 10^{\text{HH1b}(3,3,6,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + 1/2^{\text{HH1b}(3,3,6,\text{plext.plext})} F^{-4} \\
& + 50/9^{\text{HH1b}(3,3,6,\text{plext.plext})} F^{-4} \sin^2 - 32/9^{\text{HH1b}(3,3,6,\text{plext.plext})} F^{-4} \\
& - 4^{\sin^4} - 6^{\text{HH1b}(4,2,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x - \text{HH1b}(4,2,8,\text{plext.plext}) F^{-4} \\
& + 2^{\text{HH1b}(4,2,8,\text{plext.plext})} F^{-4} \sin^2 - 1/2^{\text{HH1b}(6,3,8,\text{plext.plext})} F^{-4} \\
& + 32/9^{\text{HH1b}(6,3,8,\text{plext.plext})} F^{-4} \sin^2 - 32/9^{\text{HH1b}(6,3,8,\text{plext.plext})} F^{-4} \\
& - 4^{\sin^4} - 5^{\text{HH1b}(6,8,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x - 5/4^{\text{HH1b}(6,8,8,\text{plext.plext})} F^{-4} \\
& - 7/9^{\text{HH1b}(6,8,8,\text{plext.plext})} F^{-4} \sin^2 + 16/9^{\text{HH1b}(6,8,8,\text{plext.plext})} F^{-4} \\
& - 4^{\sin^4} + 8/3^{\text{Hb}(2,3,4,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + 1/2^{\text{Hb}(2,3,4,\text{plext.plext})} F^{-4} \\
& - 4/3^{\text{Hb}(2,3,4,\text{plext.plext})} F^{-4} \sin^2 + 10/3^{\text{Hb}(2,4,8,\text{plext.plext})} F^{-4} \\
& - 4^{\sqrt{3}^{-1} \sin x \cos x} + 1/6^{\text{Hb}(2,4,8,\text{plext.plext})} F^{-4} - 2/3^{\text{Hb}(2,4,8,\text{plext.plext})} F^{-4} \\
& - 1/2^{\text{Hb}(3,2,4,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + 35/9^{\text{Hb}(3,3,6,\text{plext.plext})} F^{-4} \\
& - 4^{\sqrt{3}^{-1} \sin x \cos x} - 1/8^{\text{Hb}(3,3,6,\text{plext.plext})} F^{-4} - 61/27^{\text{Hb}(3,3,6,\text{plext.plext})} F^{-4} \\
& - 4^{\sin^2} + 40/27^{\text{Hb}(3,3,6,\text{plext.plext})} F^{-4} \sin^4 + 1/12^{\text{Hb}(3,6,8,\text{plext.plext})} F^{-4} \\
& - 16/27^{\text{Hb}(3,6,8,\text{plext.plext})} F^{-4} \sin^2 + 16/27^{\text{Hb}(3,6,8,\text{plext.plext})} F^{-4} \\
& - 4^{\sin^4} - 1/8^{\text{Hb}(4,2,3,\text{plext.plext})} F^{-4} + 1/2^{\text{Hb}(4,2,3,\text{plext.plext})} F^{-4} \\
& - 4^{\sin^2} + 3/8^{\text{Hb}(4,2,8,\text{plext.plext})} F^{-4} - 1/2^{\text{Hb}(4,2,8,\text{plext.plext})} F^{-4} \\
& - 4^{\sin^2} + 1/4^{\text{Hb}(5,4,6,\text{plext.plext})} F^{-4} - 5/4^{\text{Hb}(6,3,3,\text{plext.plext})} F^{-4} \\
& - 4^{\sqrt{3}^{-1} \sin x \cos x} + 1/32^{\text{Hb}(6,3,3,\text{plext.plext})} F^{-4} + 11/12^{\text{Hb}(6,3,3,\text{plext.plext})} F^{-4} \\
& - 4^{\sin^2} - 2/3^{\text{Hb}(6,3,3,\text{plext.plext})} F^{-4} \sin^4 + 3/16^{\text{Hb}(6,3,8,\text{plext.plext})} F^{-4} \\
& - 4/3^{\text{Hb}(6,3,8,\text{plext.plext})} F^{-4} \sin^2 + 4/3^{\text{Hb}(6,3,8,\text{plext.plext})} F^{-4} \\
& - 4^{\sin^4} + 85/36^{\text{Hb}(6,8,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin x \cos x + 181/288^{\text{Hb}(6,8,8,\text{plext.plext})} F^{-4} \\
& + 53/108^{\text{Hb}(6,8,8,\text{plext.plext})} F^{-4} \sin^2 - 26/27^{\text{Hb}(6,8,8,\text{plext.plext})} F^{-4} \\
& - 4^{\sin^4} + 1/2^{\text{Hb}(7,6,6,\text{plext.plext})} F^{-4} - 1/2^{\text{Hb}(8,2,4,\text{plext.plext})} F^{-4} \\
& - 4^{\sqrt{3}^{-1} \sin x \cos x} + 3/4^{\text{H21b}(1,2,6,\text{plext.plext})} F^{-4} - 3/4^{\text{H21b}(2,3,4,\text{plext.plext})} F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 3/4*H21b(2,3,4,plext.plext)*F^{-4} - 3/4*H21b(2,3,4,plext.plext)*F^{-4} \\
& 4^*\sin x^2 + 3/4*H21b(2,4,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 3/4*H21b(2,4,8,plext.plext)*F^{-4} \\
& 4^*\sin x^2 + 15/4*H21b(3,2,4,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 3/4*H21b(3,2,4,plext.plext)*F^{-4} \\
& - 3*H21b(4,2,3,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 3/8*H21b(4,2,3,plext.plext)*F^{-4} \\
& 4 + 3/2*H21b(4,2,3,plext.plext)*F^{-4}*\sin x^2 + 3*H21b(4,2,8,plext.plext)*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 9/8*H21b(4,2,8,plext.plext)*F^{-4} - 3/2*H21b(4,2,8,plext.plext)*F^{-4} \\
& 4^*\sin x^2 + 3/4*H21b(5,4,6,plext.plext)*F^{-4} - 15/4*H21b(6,3,3,plext.plext)*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 3/32*H21b(6,3,3,plext.plext)*F^{-4} + 11/4*H21b(6,3,3,plext.plext)*F^{-4} \\
& 4^*\sin x^2 - 2*H21b(6,3,3,plext.plext)*F^{-4}*\sin x^4 + 9/16*H21b(6,3,8,plext.plext)*F^{-4} \\
& 4 - 4*H21b(6,3,8,plext.plext)*F^{-4}*\sin x^2 + 4*H21b(6,3,8,plext.plext)*F^{-4} \\
& 4^*\sin x^4 + 15/4*H21b(6,8,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 27/32*H21b(6,8,8,plext.plext)*F^{-4} \\
& + 5/4*H21b(6,8,8,plext.plext)*F^{-4}*\sin x^2 - 2*H21b(6,8,8,plext.plext)*F^{-4}*\sin x^4 + 3/2*H21b(7,6,6,plext.plext)*F^{-4} \\
& 4 - 15/4*H21b(8,2,4,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 3/4*H21b(8,2,4,plext.plext)*F^{-4} \\
& 4^*\sin x^2) \\
& + \text{mkp}2^3 * (+ 8/9*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 8/3*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*L7r*\pi^{-2} - 4709/442368*F^{-4}*\pi^{-4} - 763/331776*F^{-4}*\pi^{-2} \\
& + 8/9*F^{-4}*L8r*\pi^{-2} + 8/9*F^{-4}*L7r*\pi^{-2} + 8/9*F^{-4}*L6r*\pi^{-2} - \\
& 8/27*F^{-4}*L5r*\pi^{-2} - 128*F^{-4}*L5r*L8r - 256*F^{-4}*L5r*L6r + 64*F^{-4} \\
& 4*L5r^2 - 4/9*F^{-4}*L4r*\pi^{-2} - 256*F^{-4}*L4r*L8r - 512*F^{-4}*L4r*L6r + \\
& 256*F^{-4}*L4r*L5r + 256*F^{-4}*L4r^2 + 89/432*F^{-4}*L3r*\pi^{-2} + 61/72*F^{-4} \\
& 4*L2r*\pi^{-2} + 1/4*F^{-4}*L1r*\pi^{-2} + 64*F^{-4}*CC32 + 32*F^{-4}*CC31 \\
& + 192*F^{-4}*CC21 + 128*F^{-4}*CC20 + 96*F^{-4}*CC19 - 64*F^{-4}*CC16 \\
& - 32*F^{-4}*CC15 - 32*F^{-4}*CC14 - 64*F^{-4}*CC13 - 32*F^{-4}*CC12 + \\
& 131/13824*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 40/9*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*L8r*\pi^{-2} - 20/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - \\
& 8/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} + 10/9*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*L5r*\pi^{-2} + 14/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + \\
& 10/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} + 4/9*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*L2r*\pi^{-2} + 16/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - \\
& 1/648*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 32/9*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x^3*\cos x*L8r*\pi^{-2} + 32/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} \\
& - 145/31104*\ln(3)*F^{-4}*\sin x^2*\pi^{-4} - 32/81*\ln(3)*F^{-4}*\sin x^2*L8r*\pi^{-2} \\
& - 32/27*\ln(3)*F^{-4}*\sin x^2*L7r*\pi^{-2} + 4/9*\ln(3)*F^{-4}*\sin x^2*L4r*\pi^{-2} \\
& - 7/9*\ln(3)*F^{-4}*\sin x^2*L3r*\pi^{-2} - 4/9*\ln(3)*F^{-4}*\sin x^2*L2r*\pi^{-2} - \\
& 16/9*\ln(3)*F^{-4}*\sin x^2*L1r*\pi^{-2} + 1/1944*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} + \\
& 32/81*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} + 32/27*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} \\
& + 83/41472*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 23/10368*\ln(3)^2*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/216*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} \\
& - 41/124416*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 1/10368*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} \\
& - 1/1944*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} + 43/41472*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*\pi^{-4} - 1/324*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/1728*\ln(3)*\ln(4)*F^{-4}*\pi^{-4} + 67/20736*\ln(3)*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} \\
& - 1/324*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} - 71/20736*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x*\cos x*\pi^{-4} - 5/1296*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 1/1728*\ln(3)*\ln(6)*F^{-4}*\pi^{-4} - 5/6912*\ln(3)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} + \\
& 1/432*\ln(3)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + 11/10368*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*\pi^{-4} - 47/5184*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 1/108*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 11/15552*\ln(3)*\ln(8)*F^{-4} \\
& 4*\sin x^2*\pi^{-4} - 5/15552*\ln(3)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 1/972*\ln(3)*\ln(8)*F^{-4} \\
& 4*\sin x^6*\pi^{-4} - 1/864*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/3456*\ln(4)*F^{-4} \\
& 4*\pi^{-4} - \ln(4)*F^{-4}*L8r*\pi^{-2} - 2*\ln(4)*F^{-4}*L6r*\pi^{-2} + 1/2*\ln(4)*F^{-4} \\
& 4*L5r*\pi^{-2} + 2*\ln(4)*F^{-4}*L4r*\pi^{-2} - 5/8*\ln(4)*F^{-4}*L3r*\pi^{-2} - \\
& 1/2*\ln(4)*F^{-4}*L2r*\pi^{-2} - 2*\ln(4)*F^{-4}*L1r*\pi^{-2} - 1/864*\ln(4)*F^{-4} \\
& 4*\sin x^2*\pi^{-4} - 1/1024*\ln(4)*\ln(6)*F^{-4}*\pi^{-4} - 43/41472*\ln(4)*\ln(8)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/324*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& 4 + 1/6912*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} - 67/20736*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} \\
& 4 + 1/324*\ln(4)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 1/1728*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*\pi^{-4} - 41/27648*\ln(6)*F^{-4}*\pi^{-4} - 2*\ln(6)*F^{-4}*L8r*\pi^{-2} - \\
& 4*\ln(6)*F^{-4}*L6r*\pi^{-2} + \ln(6)*F^{-4}*L5r*\pi^{-2} + 2*\ln(6)*F^{-4}*L4r*\pi^{-2} - \\
& 5/4*\ln(6)*F^{-4}*L3r*\pi^{-2} - 7/4*\ln(6)*F^{-4}*L2r*\pi^{-2} - 5/2*\ln(6)*F^{-4} \\
& 4*L1r*\pi^{-2} + 1/864*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} - 1/512*\ln(6)^2*F^{-4}*\pi^{-4} + \\
& 71/20736*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 5/1296*\ln(6)*\ln(8)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 11/6912*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} + 5/6912*\ln(6)*\ln(8)*F^{-4} \\
& 4*\sin x^2*\pi^{-4} - 1/432*\ln(6)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 49/4608*\ln(8)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 40/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} \\
& + 20/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 8/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L6r*\pi^{-2} - 10/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} - \\
& 14/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} - 10/9*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L3r*\pi^{-2} - 4/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} - \\
& 16/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + 1/648*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*\pi^{-4} - 32/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - \\
& 32/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - 43/10368*\ln(8)*F^{-4}*\pi^{-4} \\
& + 4/9*\ln(8)*F^{-4}*L4r*\pi^{-2} - 7/9*\ln(8)*F^{-4}*L3r*\pi^{-2} - 4/9*\ln(8)*F^{-4} \\
& 4*L2r*\pi^{-2} - 16/9*\ln(8)*F^{-4}*L1r*\pi^{-2} + 145/31104*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} \\
& 4 + 32/81*\ln(8)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 32/27*\ln(8)*F^{-4}*\sin x^2*L7r*\pi^{-2} \\
& - 4/9*\ln(8)*F^{-4}*\sin x^2*L4r*\pi^{-2} + 7/9*\ln(8)*F^{-4}*\sin x^2*L3r*\pi^{-2} \\
& + 4/9*\ln(8)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 16/9*\ln(8)*F^{-4}*\sin x^2*L1r*\pi^{-2} \\
& - 1/1944*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 32/81*\ln(8)*F^{-4}*\sin x^4*L8r*\pi^{-2} \\
& - 32/27*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 127/41472*\ln(8)^2*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*\pi^{-4} + 71/10368*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& - 1/216*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 13/13824*\ln(8)^2*F^{-4} \\
& 4*\pi^{-4} + 43/41472*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} + 13/31104*\ln(8)^2*F^{-4} \\
& 4*\sin x^4*\pi^{-4} - 1/1944*\ln(8)^2*F^{-4}*\sin x^6*\pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& + \text{mkp}2^4 * (+ 121/20736/(\text{mass}(3))^*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 43/10368/(\text{mass}(3))^*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 217/110592/(\text{mass}(4))^*\ln(4)^2*F^{-4} \\
& 4*\pi^{-4} - 35/110592/(\text{mass}(5))^*\ln(4)^2*F^{-4}*\pi^{-4} - 91/13824/(\text{mass}(6))^*\ln(6)^2*F^{-4} \\
& 4*\pi^{-4} - 101/55296/(\text{mass}(7))^*\ln(6)^2*F^{-4}*\pi^{-4} - 121/20736/(\text{mass}(8))^*\ln(8)^2*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 43/10368/(\text{mass}(8))^*\ln(8)^2*F^{-4}*\pi^{-4} +
\end{aligned}$$

$$\begin{aligned}
& 43/10368/(\text{mass}(8))^{\ln(8)^2} F^{-4} \sin^2 \pi^{-4} \\
& + \text{mpp2}^{\text{mkp2}} * (+ 4^{\text{HH1b}(2,3,4,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* + \\
& 4^{\text{HH1b}(3,2,4,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* + 20/3^{\text{HH1b}(3,3,6,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* - \\
& 16/3^{\text{HH1b}(3,3,6,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^3 \cos^* - 16/9^{\text{HH1b}(3,3,6,\text{plext.plext})} F^{-4} \sin^2 + 16/9^{\text{HH1b}(3,3,6,\text{plext.plext})} F^{-4} \sin^4 + \\
& 4^{\text{HH1b}(4,2,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* + 8/3^{\text{HH1b}(6,3,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* - \\
& 16/3^{\text{HH1b}(6,3,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^3 \cos^* - 16/9^{\text{HH1b}(6,3,8,\text{plext.plext})} F^{-4} \sin^2 + 16/9^{\text{HH1b}(6,3,8,\text{plext.plext})} F^{-4} \sin^4 + \\
& 2/3^{\text{HH1b}(6,8,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* + 8/3^{\text{HH1b}(6,8,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^3 \cos^* + 8/9^{\text{HH1b}(6,8,8,\text{plext.plext})} F^{-4} \sin^2 - \\
& 8/9^{\text{HH1b}(6,8,8,\text{plext.plext})} F^{-4} \sin^4 + 1/4^{\text{Hb}(1,2,6,\text{plext.plext})} F^{-4} - 19/6^{\text{Hb}(2,3,4,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* + 1/4^{\text{Hb}(2,3,4,\text{plext.plext})} F^{-4} - \\
& 1/4^{\text{Hb}(2,3,4,\text{plext.plext})} F^{-4} \sin^2 - 5/6^{\text{Hb}(2,4,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* + 1/4^{\text{Hb}(2,4,8,\text{plext.plext})} F^{-4} \sin^2 + 1/2^{\text{Hb}(3,2,4,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* + \\
& 1/4^{\text{Hb}(3,2,4,\text{plext.plext})} F^{-4} - 1/4^{\text{Hb}(3,2,4,\text{plext.plext})} F^{-4} \sin^2 - 8/3^{\text{Hb}(3,3,6,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* + 20/9^{\text{Hb}(3,3,6,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^3 \cos^* + \\
& 20/27^{\text{Hb}(3,3,6,\text{plext.plext})} F^{-4} \sin^2 - 20/27^{\text{Hb}(3,3,6,\text{plext.plext})} F^{-4} \sin^4 - 4/9^{\text{Hb}(3,6,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* + 8/9^{\text{Hb}(3,6,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^3 \cos^* + \\
& 8/27^{\text{Hb}(3,6,8,\text{plext.plext})} F^{-4} \sin^2 - 8/27^{\text{Hb}(3,6,8,\text{plext.plext})} F^{-4} \sin^4 + \text{Hb}(6,3,3,\text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* - \text{Hb}(6,3,3,\text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^3 \cos^* - \\
& 1/3^{\text{Hb}(6,3,3,\text{plext.plext})} F^{-4} \sin^2 + 1/3^{\text{Hb}(6,3,3,\text{plext.plext})} F^{-4} \sin^4 - \text{Hb}(6,3,8,\text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* + 2^{\text{Hb}(6,3,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^3 \cos^* + 2/3^{\text{Hb}(6,3,8,\text{plext.plext})} F^{-4} \sin^2 - 2/3^{\text{Hb}(6,3,8,\text{plext.plext})} F^{-4} \sin^4 - \\
& 2/9^{\text{Hb}(6,8,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* - 13/9^{\text{Hb}(6,8,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^3 \cos^* - 13/27^{\text{Hb}(6,8,8,\text{plext.plext})} F^{-4} \sin^2 + 13/27^{\text{Hb}(6,8,8,\text{plext.plext})} F^{-4} \sin^4 - 1/2^{\text{Hb}(8,2,4,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* + 1/4^{\text{Hb}(8,2,4,\text{plext.plext})} F^{-4} \sin^2 - 3/2^{\text{H21b}(2,3,4,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* + 3/2^{\text{H21b}(2,4,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* - 3/2^{\text{H21b}(3,2,4,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* + 3^{\text{H21b}(4,2,3,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* - 3^{\text{H21b}(4,2,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* + 3^{\text{H21b}(6,3,3,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* - 3^{\text{H21b}(6,3,3,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^3 \cos^* - \text{H21b}(6,3,3,\text{plext.plext}) F^{-4} \sin^2 + \text{H21b}(6,3,3,\text{plext.plext}) F^{-4} \sin^4 - 3^{\text{H21b}(6,3,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^* + 6^{\text{H21b}(6,3,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^3 \cos^* + 2^{\text{H21b}(6,3,8,\text{plext.plext})} F^{-4} \sin^2 - 2^{\text{H21b}(6,3,8,\text{plext.plext})} F^{-4} \sin^4 - 3^{\text{H21b}(6,8,8,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^3 \cos^* - \text{H21b}(6,8,8,\text{plext.plext}) F^{-4} \sin^2 + \text{H21b}(6,8,8,\text{plext.plext}) F^{-4} \sin^4 + 3/2^{\text{H21b}(8,2,4,\text{plext.plext})} F^{-4} \sqrt{3}^{-1} \sin^* \cos^*) \\
& + \text{mpp2}^{\text{mkp2}^2} * (- 8/3^{\text{F}^{-4} \sqrt{3}^{-1} \sin^* \cos^*} \text{L8r}^{\pi^{-2}} - 8^{\text{F}^{-4} \sqrt{3}^{-1} \sin^* \cos^*} \text{L7r}^{\pi^{-2}} - 19/27648^{\text{F}^{-4} \pi^{-4}} - 73/165888^{\text{F}^{-4} \pi^{-2}} - 8/9^{\text{F}^{-4} \text{L8r}^{\pi^{-2}}} - 16/9^{\text{F}^{-4} \text{L7r}^{\pi^{-2}}} + 2/9^{\text{F}^{-4} \text{L6r}^{\pi^{-2}}} - 2 + 4/27^{\text{F}^{-4} \text{L5r}^{\pi^{-2}}} - 128^{\text{F}^{-4} \text{L5r}^{\text{L6r}}} - 1/9^{\text{F}^{-4} \text{L4r}^{\pi^{-2}}} - 128^{\text{F}^{-4} \text{L4r}^{\text{L8r}}} - 512^{\text{F}^{-4} \text{L4r}^{\text{L6r}}} + 128^{\text{F}^{-4} \text{L4r}^{\text{L5r}}} + 256^{\text{F}^{-4} \text{L4r}^2} - 1/108^{\text{F}^{-4} \text{L3r}^{\pi^{-2}}} - 1/9^{\text{F}^{-4} \text{L2r}^{\pi^{-2}}} + 32^{\text{F}^{-4} \text{CC32}} + 192^{\text{F}^{-4} \text{CC21}} - 32^{\text{F}^{-4} \text{CC20}} - 96^{\text{F}^{-4} \text{CC19}} - 32^{\text{F}^{-4} \text{CC17}}
\end{aligned}$$

$$\begin{aligned}
& + 64F^{-4}CC16 - 16F^{-4}CC15 + 32F^{-4}CC14 - 32F^{-4}CC13 - \\
& 1/1728\ln(1)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} - 1/512\ln(1)F^{-4}\pi^{-4} - \\
& 25/13824\ln(1)\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} + 1/864\ln(1)\ln(3)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x\pi^{-4} \\
& - 43/41472\ln(1)\ln(3)F^{-4}\sin x^2\pi^{-4} + 1/2592\ln(1)\ln(3)F^{-4}\sin x^4\pi^{-4} - 1/1024\ln(1)\ln(4)F^{-4}\pi^{-4} \\
& - 1/1024\ln(1)\ln(6)F^{-4}\pi^{-4} + 25/13824\ln(1)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} - 1/864\ln(1)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x\pi^{-4} \\
& - 1/1536\ln(1)\ln(8)F^{-4}\pi^{-4} + 43/41472\ln(1)\ln(8)F^{-4}\sin x^2\pi^{-4} - 1/2592\ln(1)\ln(8)F^{-4}\sin x^4\pi^{-4} \\
& - 151/27648\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} + 4\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL8r\pi^{-2} + 34/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL7r\pi^{-2} \\
& - 4\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL6r\pi^{-2} - 1/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL5r\pi^{-2} + 11/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL4r\pi^{-2} \\
& - 4/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL3r\pi^{-2} - 2/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL2r\pi^{-2} - 8/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL1r\pi^{-2} \\
& + 1/432\ln(3)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x\pi^{-4} - 80/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x^3\cos xL8r\pi^{-2} - 80/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x^3\cos xL7r\pi^{-2} \\
& - 1/1024\ln(3)F^{-4}\pi^{-4} + 179/82944\ln(3)F^{-4}\sin x^2\pi^{-4} + 16/9\ln(3)F^{-4}\sin x^2L8r\pi^{-2} + 14/3\ln(3)F^{-4}\sin x^2L7r\pi^{-2} \\
& + 4/3\ln(3)F^{-4}\sin x^2L6r\pi^{-2} - 1/9\ln(3)F^{-4}\sin x^2L5r\pi^{-2} - 11/9\ln(3)F^{-4}\sin x^2L4r\pi^{-2} + 7/18\ln(3)F^{-4}\sin x^2L3r\pi^{-2} \\
& + 2/9\ln(3)F^{-4}\sin x^2L2r\pi^{-2} + 8/9\ln(3)F^{-4}\sin x^2L1r\pi^{-2} - 1/1296\ln(3)F^{-4}\sin x^4\pi^{-4} - 16/9\ln(3)F^{-4}\sin x^4L8r\pi^{-2} \\
& - 16/3\ln(3)F^{-4}\sin x^4L7r\pi^{-2} - 37/9216\ln(3)^2F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} + 7/6912\ln(3)^2F^{-4}\sqrt{3}^{-1}\sin x^3\cos x\pi^{-4} \\
& + 1/216\ln(3)^2F^{-4}\sqrt{3}^{-1}\sin x^5\cos x\pi^{-4} + 35/82944\ln(3)^2F^{-4}\sin x^2\pi^{-4} - 25/20736\ln(3)^2F^{-4}\sin x^4\pi^{-4} + 1/648\ln(3)^2F^{-4}\sin x^6\pi^{-4} \\
& - 71/27648\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} + 5/864\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x\pi^{-4} - 5/3456\ln(3)\ln(4)F^{-4}\pi^{-4} \\
& - 77/82944\ln(3)\ln(4)F^{-4}\sin x^2\pi^{-4} + 7/2592\ln(3)\ln(4)F^{-4}\sin x^4\pi^{-4} - 13/13824\ln(3)\ln(6)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} \\
& + 1/96\ln(3)\ln(6)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x\pi^{-4} + 13/27648\ln(3)\ln(6)F^{-4}\pi^{-4} - 49/41472\ln(3)\ln(6)F^{-4}\sin x^2\pi^{-4} \\
& + 1/2592\ln(3)\ln(6)F^{-4}\sin x^4\pi^{-4} - 7/6912\ln(3)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} + 11/1152\ln(3)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x\pi^{-4} \\
& - 1/108\ln(3)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x^5\cos x\pi^{-4} - 1/3072\ln(3)\ln(8)F^{-4}\pi^{-4} - 17/10368\ln(3)\ln(8)F^{-4}\sin x^2\pi^{-4} \\
& + 49/10368\ln(3)\ln(8)F^{-4}\sin x^4\pi^{-4} - 1/324\ln(3)\ln(8)F^{-4}\sin x^6\pi^{-4} + 1/384\ln(4)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} - 41/13824\ln(4)F^{-4}\pi^{-4} \\
& + 5/3456\ln(4)F^{-4}\sin x^2\pi^{-4} + 71/27648\ln(4)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} - 5/864\ln(4)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x\pi^{-4} \\
& + 13/27648\ln(4)\ln(8)F^{-4}\pi^{-4} + 77/82944\ln(4)\ln(8)F^{-4}\sin x^2\pi^{-4} - 7/2592\ln(4)\ln(8)F^{-4}\sin x^4\pi^{-4} \\
& + 11/3456\ln(6)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} + 1/27648\ln(6)F^{-4}\pi^{-4} - 5/3456\ln(6)F^{-4}\sin x^2\pi^{-4} + 13/13824\ln(6)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} \\
& - 1/96\ln(6)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x\pi^{-4} - 13/27648\ln(6)\ln(8)F^{-4}\pi^{-4} + 49/41472\ln(6)\ln(8)F^{-4}\sin x^2\pi^{-4} \\
& - 1/2592\ln(6)\ln(8)F^{-4}\sin x^4\pi^{-4} + 247/27648\ln(8)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} - 4\ln(8)F^{-4}\sqrt{3}^{-1}\sin x\cos xL8r\pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& - 34/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 4*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L6r*\pi^{-2} + 1/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} - \\
& 11/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + 4/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L3r*\pi^{-2} + 2/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} + \\
& 8/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - 1/432*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x^3*\cos x*\pi^{-4} + 80/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} + \\
& 80/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} + 17/41472*\ln(8)*F^{-4}*\pi^{-4} \\
& - 2/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L6r*\pi^{-2} - 1/9*\ln(8)*F^{-4} \\
& * \sin x^3*\cos x*L5r*\pi^{-2} - 11/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L4r*\pi^{-2} + 7/18*\ln(8)*F^{-4} \\
& * \sin x^3*\cos x*L3r*\pi^{-2} + 2/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L2r*\pi^{-2} + 8/9*\ln(8)*F^{-4} \\
& * \sin x^3*\cos x*L1r*\pi^{-2} - 179/82944*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 16/9*\ln(8)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 14/3*\ln(8)*F^{-4}*\sin x^2*L8r*\pi^{-2} - 14/3*\ln(8)*F^{-4} \\
& * \sin x^2*L7r*\pi^{-2} - 4/3*\ln(8)*F^{-4}*\sin x^2*L6r*\pi^{-2} + 1/9*\ln(8)*F^{-4} \\
& * \sin x^2*L5r*\pi^{-2} + 11/9*\ln(8)*F^{-4}*\sin x^2*L4r*\pi^{-2} - 7/18*\ln(8)*F^{-4} \\
& * \sin x^2*L3r*\pi^{-2} - 2/9*\ln(8)*F^{-4}*\sin x^2*L2r*\pi^{-2} - 8/9*\ln(8)*F^{-4} \\
& * \sin x^2*L1r*\pi^{-2} + 1/1296*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 16/9*\ln(8)*F^{-4} \\
& * \sin x^4*L8r*\pi^{-2} + 16/3*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 139/27648*\ln(8)^2*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 73/6912*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& + 1/216*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 7/9216*\ln(8)^2*F^{-4} \\
& * \pi^{-4} + 101/82944*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} - 73/20736*\ln(8)^2*F^{-4} \\
& * \sin x^4*\pi^{-4} + 1/648*\ln(8)^2*F^{-4}*\sin x^6*\pi^{-4}) \\
& + mpp2^2*mkp2^3 * (- 95/13824/(mass(3))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& + 43/20736/(mass(3))*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 11/13824/(mass(4))*\ln(4)^2*F^{-4} \\
& * \pi^{-4} - 5/27648/(mass(5))*\ln(4)^2*F^{-4}*\pi^{-4} - 37/55296/(mass(6))*\ln(6)^2*F^{-4} \\
& * \pi^{-4} + 5/27648/(mass(7))*\ln(6)^2*F^{-4}*\pi^{-4} + 95/13824/(mass(8))*\ln(8)^2*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 43/20736/(mass(8))*\ln(8)^2*F^{-4}*\pi^{-4} - \\
& 43/20736/(mass(8))*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4}) \\
& + mpp2^2 * (- 2/3*HH1b(3,3,6,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + \\
& 4/3*HH1b(3,3,6,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x - 4/9*HH1b(3,3,6,plext.plext)*F^{-4} \\
& * \sin x^2 + 4/9*HH1b(3,3,6,plext.plext)*F^{-4}*\sin x^4 - 2/3*HH1b(6,3,8,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x + 4/3*HH1b(6,3,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x \\
& - 4/9*HH1b(6,3,8,plext.plext)*F^{-4}*\sin x^2 + 4/9*HH1b(6,3,8,plext.plext)*F^{-4} \\
& * \sin x^4 + 1/3*HH1b(6,8,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 2/3*HH1b(6,8,8,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^3*\cos x + 2/9*HH1b(6,8,8,plext.plext)*F^{-4}*\sin x^2 - \\
& 2/9*HH1b(6,8,8,plext.plext)*F^{-4}*\sin x^4 - 1/4*Hb(2,3,4,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x + 1/4*Hb(2,4,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - \\
& 1/4*Hb(3,2,4,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 5/18*Hb(3,3,6,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x - 5/9*Hb(3,3,6,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x \\
& + 5/27*Hb(3,3,6,plext.plext)*F^{-4}*\sin x^2 - 5/27*Hb(3,3,6,plext.plext)*F^{-4} \\
& * \sin x^4 + 1/9*Hb(3,6,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 2/9*Hb(3,6,8,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^3*\cos x + 2/27*Hb(3,6,8,plext.plext)*F^{-4}*\sin x^2 - 2/27*Hb(3,6,8,plext.plext)*F^{-4} \\
& * \sin x^4 - 1/8*Hb(6,3,3,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 1/4*Hb(6,3,3,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^3*\cos x - 1/12*Hb(6,3,3,plext.plext)*F^{-4}*\sin x^2 + 1/12*Hb(6,3,3,plext.plext)*F^{-4} \\
& * \sin x^4 + 1/4*Hb(6,3,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 1/2*Hb(6,3,8,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^3*\cos x + 1/6*Hb(6,3,8,plext.plext)*F^{-4}*\sin x^2 - 1/6*Hb(6,3,8,plext.plext)*F^{-4} \\
& * \sin x^4 - 13/72*Hb(6,8,8,plext.plext)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 13/36*Hb(6,8,8,plext.plext)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}-1} \sin^3 \cos x - 13/108 \text{Hb}(6,8,8, \text{plext.plext}) F^{-4} \sin^2 + \\
& 13/108 \text{Hb}(6,8,8, \text{plext.plext}) F^{-4} \sin^4 + 1/4 \text{Hb}(8,2,4, \text{plext.plext}) F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x - 3/8 \text{H21b}(6,3,3, \text{plext.plext}) F^{-4} 4^{\sqrt{3}-1} \sin^3 \cos x \\
& + 3/4 \text{H21b}(6,3,3, \text{plext.plext}) F^{-4} 4^{\sqrt{3}-1} \sin^3 \cos x - 1/4 \text{H21b}(6,3,3, \text{plext.plext}) F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x - 1/4 \text{H21b}(6,3,3, \text{plext.plext}) F^{-4} \sin^4 + 3/4 \text{H21b}(6,3,8, \text{plext.plext}) F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x - 3/2 \text{H21b}(6,3,8, \text{plext.plext}) F^{-4} 4^{\sqrt{3}-1} \sin^3 \cos x \\
& + 1/2 \text{H21b}(6,3,8, \text{plext.plext}) F^{-4} \sin^2 - 1/2 \text{H21b}(6,3,8, \text{plext.plext}) F^{-4} \\
& 4^{\sqrt{3}-1} \sin^4 - 3/8 \text{H21b}(6,8,8, \text{plext.plext}) F^{-4} 4^{\sqrt{3}-1} \sin^3 \cos x + 3/4 \text{H21b}(6,8,8, \text{plext.plext}) F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x - 1/4 \text{H21b}(6,8,8, \text{plext.plext}) F^{-4} \sin^2 + \\
& 1/4 \text{H21b}(6,8,8, \text{plext.plext}) F^{-4} \sin^4) \\
& + \text{mpp2}^2 \text{mkp2} * (+ 8/3 F^{-4} 4^{\sqrt{3}-1} \sin^3 \cos x L8r \pi^{-2} + 8 F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x L7r \pi^{-2} - 13/6144 F^{-4} \pi^{-4} - 1/2048 F^{-4} \pi^{-2} + \\
& 1/3 F^{-4} L8r \pi^{-2} + 8/9 F^{-4} L7r \pi^{-2} - 1/9 F^{-4} L6r \pi^{-2} - 1/54 F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x L5r \pi^{-2} + 1/18 F^{-4} L4r \pi^{-2} - 128 F^{-4} L4r L6r + 64 F^{-4} L4r^2 + \\
& 41/432 F^{-4} L3r \pi^{-2} + 7/18 F^{-4} L2r \pi^{-2} + 48 F^{-4} \text{CC21} + 48 F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x L2r \pi^{-2} + 48 F^{-4} \text{CC20} + 48 F^{-4} \text{CC19} + 16 F^{-4} \text{CC17} - 48 F^{-4} \text{CC16} - 16 F^{-4} \text{CC14} \\
& - 1/1728 \ln(1) F^{-4} 4^{\sqrt{3}-1} \sin^3 \cos x \pi^{-4} - 1/2304 \ln(1) F^{-4} \pi^{-4} - \\
& \ln(1) F^{-4} L8r \pi^{-2} - 2 \ln(1) F^{-4} L6r \pi^{-2} + 1/2 \ln(1) F^{-4} L5r \pi^{-2} \\
& + 2 \ln(1) F^{-4} L4r \pi^{-2} - 5/8 \ln(1) F^{-4} L3r \pi^{-2} - 1/2 \ln(1) F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x L2r \pi^{-2} - 2 \ln(1) F^{-4} L1r \pi^{-2} - 1/13824 \ln(1) \ln(3) F^{-4} 4^{\sqrt{3}-1} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x \pi^{-4} - 5/864 \ln(1) \ln(3) F^{-4} 4^{\sqrt{3}-1} \sin^3 \cos x \pi^{-4} - \\
& 1/2048 \ln(1) \ln(3) F^{-4} \pi^{-4} + 41/41472 \ln(1) \ln(3) F^{-4} \sin^2 \pi^{-4} - \\
& 1/1296 \ln(1) \ln(3) F^{-4} \sin^4 \pi^{-4} + 1/13824 \ln(1) \ln(8) F^{-4} 4^{\sqrt{3}-1} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x \pi^{-4} + 5/864 \ln(1) \ln(8) F^{-4} 4^{\sqrt{3}-1} \sin^3 \cos x \pi^{-4} - \\
& 5/18432 \ln(1) \ln(8) F^{-4} \pi^{-4} - 41/41472 \ln(1) \ln(8) F^{-4} \sin^2 \pi^{-4} \\
& + 1/1296 \ln(1) \ln(8) F^{-4} \sin^4 \pi^{-4} + 25/13824 \ln(3) F^{-4} 4^{\sqrt{3}-1} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x \pi^{-4} - 8/3 \ln(3) F^{-4} 4^{\sqrt{3}-1} \sin^3 \cos x L8r \pi^{-2} - 20/3 \ln(3) F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x L7r \pi^{-2} + 2/9 \ln(3) F^{-4} 4^{\sqrt{3}-1} \sin^3 \cos x L5r \pi^{-2} \\
& - 2 + 1/3 \ln(3) F^{-4} 4^{\sqrt{3}-1} \sin^3 \cos x L3r \pi^{-2} + 64/9 \ln(3) F^{-4} 4^{\sqrt{3}-1} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x L8r \pi^{-2} + 64/3 \ln(3) F^{-4} 4^{\sqrt{3}-1} \sin^3 \cos x L7r \pi^{-2} - \\
& 1/4608 \ln(3) F^{-4} \pi^{-4} - 1/2 \ln(3) F^{-4} L8r \pi^{-2} - \ln(3) F^{-4} L6r \pi^{-2} + \\
& 1/4 \ln(3) F^{-4} L5r \pi^{-2} + \ln(3) F^{-4} L4r \pi^{-2} - 5/16 \ln(3) F^{-4} L3r \pi^{-2} \\
& - 2 - 1/4 \ln(3) F^{-4} L2r \pi^{-2} - \ln(3) F^{-4} L1r \pi^{-2} + 31/82944 \ln(3) F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x \pi^{-4} - 46/27 \ln(3) F^{-4} \sin^2 L8r \pi^{-2} - 58/9 \ln(3) F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x L7r \pi^{-2} + 2/3 \ln(3) F^{-4} \sin^2 L6r \pi^{-2} - 2/9 \ln(3) F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x L5r \pi^{-2} - 13/18 \ln(3) F^{-4} \sin^2 L4r \pi^{-2} + 19/72 \ln(3) F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x L3r \pi^{-2} + 2/9 \ln(3) F^{-4} \sin^2 L2r \pi^{-2} + 8/9 \ln(3) F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x L1r \pi^{-2} + 64/27 \ln(3) F^{-4} \sin^4 L8r \pi^{-2} + 64/9 \ln(3) F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x L7r \pi^{-2} + 113/27648 \ln(3)^2 F^{-4} 4^{\sqrt{3}-1} \sin^3 \cos x \pi^{-4} \\
& - 3/512 \ln(3)^2 F^{-4} 4^{\sqrt{3}-1} \sin^3 \cos x \pi^{-4} + 1/864 \ln(3)^2 F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x \pi^{-4} + 1/8192 \ln(3)^2 F^{-4} \pi^{-4} + 19/27648 \ln(3)^2 F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x \pi^{-4} - 23/41472 \ln(3)^2 F^{-4} \sin^4 \pi^{-4} - 1/2592 \ln(3)^2 F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x \pi^{-4} + 1/864 \ln(3) \ln(4) F^{-4} 4^{\sqrt{3}-1} \sin^3 \cos x \pi^{-4} - \\
& 7/1728 \ln(3) \ln(4) F^{-4} 4^{\sqrt{3}-1} \sin^3 \cos x \pi^{-4} + 1/13824 \ln(3) \ln(4) F^{-4} \\
& 4^{\sqrt{3}-1} \sin^3 \cos x \pi^{-4} + 53/41472 \ln(3) \ln(4) F^{-4} \sin^2 \pi^{-4} - 7/5184 \ln(3) \ln(4) F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^4*\pi^{-4} + 1/2304*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 7/1728*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/13824*\ln(3)*\ln(6)*F^{-4} \\
& 4^*\pi^{-4} + 107/41472*\ln(3)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} - 13/5184*\ln(3)*\ln(6)*F^{-4} \\
& 4^*\sin x^4*\pi^{-4} - 7/13824*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 17/6912*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/432*\ln(3)*\ln(8)*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 5/36864*\ln(3)*\ln(8)*F^{-4}*\pi^{-4} + 25/20736*\ln(3)*\ln(8)*F^{-4} \\
& 4^*\sin x^2*\pi^{-4} - 41/20736*\ln(3)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 1/1296*\ln(3)*\ln(8)*F^{-4} \\
& 4^*\sin x^6*\pi^{-4} - 1/576*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/3456*\ln(4)*F^{-4} \\
& 4^*\pi^{-4} - 1/3456*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} - 1/864*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*\pi^{-4} + 7/1728*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& - 1/13824*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} - 53/41472*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} \\
& 4 + 7/5184*\ln(4)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 5/1728*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*\pi^{-4} - 1/3456*\ln(6)*F^{-4}*\pi^{-4} + 1/3456*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} \\
& 4 - 1/2304*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 7/1728*\ln(6)*\ln(8)*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/13824*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} - 107/41472*\ln(6)*\ln(8)*F^{-4} \\
& 4^*\sin x^2*\pi^{-4} + 13/5184*\ln(6)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 73/13824*\ln(8)*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 8/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} \\
& + 20/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - 2/9*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*L5r*\pi^{-2} - 1/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} - \\
& 64/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - 64/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x^3*\cos x*L7r*\pi^{-2} + 13/82944*\ln(8)*F^{-4}*\pi^{-4} + 1/6*\ln(8)*F^{-4} \\
& 4*L8r*\pi^{-2} + 2/3*\ln(8)*F^{-4}*\pi^{-4} - 1/3*\ln(8)*F^{-4}*\pi^{-4} + 1/36*\ln(8)*F^{-4} \\
& 4*L5r*\pi^{-2} + 5/18*\ln(8)*F^{-4}*\pi^{-4} - 7/144*\ln(8)*F^{-4} \\
& 4*L3r*\pi^{-2} - 1/36*\ln(8)*F^{-4}*\pi^{-4} - 1/9*\ln(8)*F^{-4}*\pi^{-4} - 31/82944*\ln(8)*F^{-4} \\
& 4^*\sin x^2*\pi^{-4} + 46/27*\ln(8)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 58/9*\ln(8)*F^{-4} \\
& 4^*\sin x^2*L7r*\pi^{-2} - 2/3*\ln(8)*F^{-4}*\sin x^2*L6r*\pi^{-2} + 2/9*\ln(8)*F^{-4} \\
& 4^*\sin x^2*L5r*\pi^{-2} + 13/18*\ln(8)*F^{-4}*\sin x^2*L4r*\pi^{-2} - 19/72*\ln(8)*F^{-4} \\
& 4^*\sin x^2*L3r*\pi^{-2} - 2/9*\ln(8)*F^{-4}*\sin x^2*L2r*\pi^{-2} - 8/9*\ln(8)*F^{-4} \\
& 4^*\sin x^2*L1r*\pi^{-2} - 64/27*\ln(8)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 64/9*\ln(8)*F^{-4} \\
& 4^*\sin x^4*L7r*\pi^{-2} - 11/3072*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& + 47/13824*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/864*\ln(8)^2*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 29/221184*\ln(8)^2*F^{-4}*\pi^{-4} - 157/82944*\ln(8)^2 \\
& 4^*\sin x^2*\pi^{-4} + 35/13824*\ln(8)^2*F^{-4}*\sin x^4*\pi^{-4} - 1/2592*\ln(8)^2*F^{-4} \\
& 4^*\sin x^6*\pi^{-4}) \\
& + mpp2^2*mkp2^2 * (- 5/27648/(mass(1))*\ln(1)^2*F^{-4}*\pi^{-4} - 31/27648/(mass(2))*\ln(1)^2*F^{-4} \\
& 4^*\pi^{-4} + 89/55296/(mass(3))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 1/1536/(mass(3))*\ln(3)^2*F^{-4}*\pi^{-4} + 65/165888/(mass(3))*\ln(3)^2*F^{-4} \\
& 4^*\sin x^2*\pi^{-4} + 1/13824/(mass(4))*\ln(4)^2*F^{-4}*\pi^{-4} - 1/13824/(mass(5))*\ln(4)^2*F^{-4} \\
& 4^*\pi^{-4} + 1/27648/(mass(6))*\ln(6)^2*F^{-4}*\pi^{-4} - 1/27648/(mass(7))*\ln(6)^2*F^{-4} \\
& 4^*\pi^{-4} - 89/55296/(mass(8))*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 43/165888/(mass(8))*\ln(8)^2*F^{-4}*\pi^{-4} - 65/165888/(mass(8))*\ln(8)^2*F^{-4} \\
& 4^*\sin x^2*\pi^{-4}) \\
& + mpp2^3 * (- 8/9*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 8/3*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*L7r*\pi^{-2} + 1/864*\ln(1)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 1/13824*\ln(1)*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 7/3456*\ln(1)*\ln(3)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}} \sin^3 \cos^2 \pi^4 - 13/10368 \ln(1) \ln(3) F^{-4} \sin^2 \pi^4 + 13/10368 \ln(1) \ln(3) F^{-4} \sin^4 \pi^4 + 1/13824 \ln(1) \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 \\
& - 7/3456 \ln(1) \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 13/10368 \ln(1) \ln(8) F^{-4} \sin^4 \pi^4 + 37/27648 \ln(3) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 10/9 \ln(3) F^{-4} \sqrt{3} \sin^4 \pi^4 \\
& + 2/3 \ln(3) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 2^{\sqrt{3}} \ln(3) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 10/9 \ln(3) F^{-4} \sqrt{3} \sin^4 \pi^4 + 2/3 \ln(3) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 \\
& - 2/9 \ln(3) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 - 13/18 \ln(3) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 19/72 \ln(3) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 2/9 \ln(3) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 \\
& - 1/1296 \ln(3) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 - 16/9 \ln(3) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 - 1/1296 \ln(3) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 - 16/9 \ln(3) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 \\
& - 1/3888 \ln(3) F^{-4} \sin^2 \pi^4 + 80/81 \ln(3) F^{-4} \sin^2 L8r \pi^4 + 80/27 \ln(3) F^{-4} \sin^2 L7r \pi^4 + 1/3888 \ln(3) F^{-4} \sin^4 \pi^4 - 80/81 \ln(3) F^{-4} \sin^4 L8r \pi^4 \\
& - 80/27 \ln(3) F^{-4} \sin^4 L7r \pi^4 - 101/165888 \ln(3)^2 F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 191/82944 \ln(3)^2 F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 - 275/248832 \ln(3)^2 F^{-4} \sin^2 \pi^4 \\
& + 145/82944 \ln(3)^2 F^{-4} \sin^4 \pi^4 - 5/7776 \ln(3)^2 F^{-4} \sin^6 \pi^4 - 25/41472 \ln(3) \ln(4) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 7/5184 \ln(3) \ln(4) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 \\
& + 1/41472 \ln(3) \ln(6) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 1/10368 \ln(3) \ln(6) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 - 7/10368 \ln(3) \ln(6) F^{-4} \sin^2 \pi^4 + 7/10368 \ln(3) \ln(6) F^{-4} \sin^4 \pi^4 \\
& + 11/82944 \ln(3) \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 1/432 \ln(3) \ln(8) F^{-4} \sqrt{3} \sin^5 \cos^2 \pi^4 + 115/124416 \ln(3) \ln(8) F^{-4} \sin^2 \pi^4 - 275/124416 \ln(3) \ln(8) F^{-4} \sin^4 \pi^4 + 5/3888 \ln(3) \ln(8) F^{-4} \sin^6 \pi^4 \\
& + 1/3456 \ln(4) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 25/41472 \ln(4) \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 - 7/5184 \ln(4) \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 1/41472 \ln(6) \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 \\
& - 1/41472 \ln(6) \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 - 1/10368 \ln(6) \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 7/10368 \ln(6) \ln(8) F^{-4} \sin^2 \pi^4 - 7/10368 \ln(6) \ln(8) F^{-4} \sin^4 \pi^4 \\
& - 5/27648 \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 - 10/9 \ln(8) F^{-4} \sqrt{3} \sin^4 \pi^4 + 2/3 \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 2/9 \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 \\
& - 13/18 \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 19/72 \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 - 2/9 \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 - 8/9 \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 1/1296 \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 \\
& + 16/9 \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 - 1/1296 \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 16/3 \ln(8) F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 + 1/3888 \ln(8) F^{-4} \sin^2 \pi^4 - 80/81 \ln(8) F^{-4} \sin^2 L8r \pi^4 - 80/27 \ln(8) F^{-4} \sin^2 L7r \pi^4 - 1/3888 \ln(8) F^{-4} \sin^4 \pi^4 + 80/81 \ln(8) F^{-4} \sin^4 L8r \pi^4 + 80/27 \ln(8) F^{-4} \sin^4 L7r \pi^4 + 79/165888 \ln(8)^2 F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 - 1/82944 \ln(8)^2 F^{-4} \sqrt{3} \sin^3 \cos^2 \pi^4 - 1/864 \ln(8)^2 F^{-4} \sqrt{3} \sin^5 \cos^2 \pi^4 + 5/27648 \ln(8)^2 F^{-4} \sin^2 \pi^4 + 115/248832 \ln(8)^2 F^{-4} \sin^4 \pi^4 - 5/7776 \ln(8)^2 F^{-4} \sin^6 \pi^4
\end{aligned}$$

$$\begin{aligned}
& + \text{mpp2}^3 \text{mkp2} * (- 143/110592/(\text{mass}(1))^{\wedge}2 \text{F}^{-4} \text{pi}^{-4} - 73/110592/(\text{mass}(2))^{\wedge}2 \text{F}^{-4} \text{pi}^{-4} \\
& + 47/82944/(\text{mass}(3))^{\wedge}2 \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} * \text{pi}^{-4} - \\
& 1/1024/(\text{mass}(3))^{\wedge}2 \text{F}^{-4} \text{pi}^{-4} + 1/1024/(\text{mass}(3))^{\wedge}2 \text{F}^{-4} \text{sinx}^2 \text{pi}^{-4} - 47/82944/(\text{mass}(8))^{\wedge}2 \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} * \text{pi}^{-4} - \\
& 1/1024/(\text{mass}(8))^{\wedge}2 \text{F}^{-4} \text{sinx}^2 \text{pi}^{-4}) \\
& + \text{mpp2}^4 * (- 11/27648/(\text{mass}(1))^{\wedge}2 \text{F}^{-4} \text{pi}^{-4} + 11/27648/(\text{mass}(2))^{\wedge}2 \text{F}^{-4} \text{pi}^{-4} \\
& + 1/1024/(\text{mass}(3))^{\wedge}2 \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} * \text{pi}^{-4} - \\
& 1/1024/(\text{mass}(8))^{\wedge}2 \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} * \text{pi}^{-4}) \\
& + \text{mud} * \text{mkp2} * (+ \text{HH1b}(2,3,4, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} + \\
& \text{HH1b}(2,3,4, \text{plext.plext}) * \text{F}^{-4} - 2 * \text{HH1b}(2,3,4, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 + \\
& 8 * \text{HH1b}(2,4,8, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} + 9 * \text{HH1b}(3,2,4, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} + \text{HH1b}(3,2,4, \text{plext.plext}) * \text{F}^{-4} \\
& - 2 * \text{HH1b}(3,2,4, \text{plext.plext}) * \text{F}^{-4} - 2 * \text{HH1b}(3,2,4, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 + 17 * \text{HH1b}(3,3,6, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} - 5/2 * \text{HH1b}(3,3,6, \text{plext.plext}) * \text{F}^{-4} \\
& - 50/9 * \text{HH1b}(3,3,6, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 + 32/9 * \text{HH1b}(3,3,6, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^4 + 9 * \text{HH1b}(4,2,8, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} + \text{HH1b}(4,2,8, \text{plext.plext}) * \text{F}^{-4} \\
& - 2 * \text{HH1b}(4,2,8, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 + 1/2 * \text{HH1b}(6,3,8, \text{plext.plext}) * \text{F}^{-4} \\
& - 32/9 * \text{HH1b}(6,3,8, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 + 32/9 * \text{HH1b}(6,3,8, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^4 + \\
& 17/2 * \text{HH1b}(6,8,8, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} + \\
& 9/4 * \text{HH1b}(6,8,8, \text{plext.plext}) * \text{F}^{-4} + 7/9 * \text{HH1b}(6,8,8, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 - 16/9 * \text{HH1b}(6,8,8, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^4 - 10/3 * \text{Hb}(2,3,4, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} - \\
& 1/3 * \text{Hb}(2,3,4, \text{plext.plext}) * \text{F}^{-4} + 4/3 * \text{Hb}(2,3,4, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 - 17/3 * \text{Hb}(2,4,8, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} + 2/3 * \text{Hb}(2,4,8, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 - 1/2 * \text{Hb}(3,2,4, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} + 1/8 * \text{Hb}(3,2,4, \text{plext.plext}) * \text{F}^{-4} \\
& - 119/18 * \text{Hb}(3,3,6, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} + 61/72 * \text{Hb}(3,3,6, \text{plext.plext}) * \text{F}^{-4} + 61/27 * \text{Hb}(3,3,6, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 - 40/27 * \text{Hb}(3,3,6, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^4 - 16/27 * \text{Hb}(3,6,8, \text{plext.plext}) * \text{F}^{-4} \\
& - 16/27 * \text{Hb}(3,6,8, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^4 - 1/4 * \text{Hb}(4,2,3, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} + 1/8 * \text{Hb}(4,2,3, \text{plext.plext}) * \text{F}^{-4} - 1/2 * \text{Hb}(4,2,3, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 + 1/4 * \text{Hb}(4,2,8, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} - 3/8 * \text{Hb}(4,2,8, \text{plext.plext}) * \text{F}^{-4} \\
& + 1/2 * \text{Hb}(4,2,8, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 - 1/4 * \text{Hb}(5,4,6, \text{plext.plext}) * \text{F}^{-4} \\
& + 17/8 * \text{Hb}(6,3,3, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} - 9/32 * \text{Hb}(6,3,3, \text{plext.plext}) * \text{F}^{-4} \\
& - 11/12 * \text{Hb}(6,3,3, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 + 2/3 * \text{Hb}(6,3,3, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^4 - 3/16 * \text{Hb}(6,3,8, \text{plext.plext}) * \text{F}^{-4} + 4/3 * \text{Hb}(6,3,8, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 - 4/3 * \text{Hb}(6,3,8, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^4 - 289/72 * \text{Hb}(6,8,8, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} - 37/32 * \text{Hb}(6,8,8, \text{plext.plext}) * \text{F}^{-4} - 53/108 * \text{Hb}(6,8,8, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 + 26/27 * \text{Hb}(6,8,8, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^4 - \text{Hb}(7,6,6, \text{plext.plext}) * \text{F}^{-4} \\
& + 1/2 * \text{Hb}(8,2,4, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} + 1/8 * \text{Hb}(8,2,4, \text{plext.plext}) * \text{F}^{-4} \\
& - 3/2 * \text{H21b}(1,2,6, \text{plext.plext}) * \text{F}^{-4} + 21/8 * \text{H21b}(2,3,4, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} - 9/8 * \text{H21b}(2,3,4, \text{plext.plext}) * \text{F}^{-4} + 3/4 * \text{H21b}(2,3,4, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 - 21/8 * \text{H21b}(2,4,8, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} - 3/8 * \text{H21b}(2,4,8, \text{plext.plext}) * \text{F}^{-4} \\
& - 3/4 * \text{H21b}(2,4,8, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 - 51/8 * \text{H21b}(3,2,4, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} - 9/8 * \text{H21b}(3,2,4, \text{plext.plext}) * \text{F}^{-4} + 3/4 * \text{H21b}(3,2,4, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 + 15/4 * \text{H21b}(4,2,3, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} - 3/2 * \text{H21b}(4,2,3, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 - 15/4 * \text{H21b}(4,2,8, \text{plext.plext}) * \text{F}^{-4} \text{sqrt3}^{-1} \text{sinx} * \text{cosx} - 3/2 * \text{H21b}(4,2,8, \text{plext.plext}) * \text{F}^{-4} \\
& + 3/2 * \text{H21b}(4,2,8, \text{plext.plext}) * \text{F}^{-4} \text{sinx}^2 - 3/2 * \text{H21b}(5,4,6, \text{plext.plext}) * \text{F}^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4 + 51/8 * H21b(6,3,3,plext.plext) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 27/32 * H21b(6,3,3,plext.plext) * F^{-4} - \\
& 11/4 * H21b(6,3,3,plext.plext) * F^{-4} * \sin x^2 + 2 * H21b(6,3,3,plext.plext) * F^{-4} * \sin x^4 - 9/16 * H21b(6,3,8,plext.plext) * F^{-4} + 4 * H21b(6,3,8,plext.plext) * F^{-4} * \sin x^2 - \\
& 4 * H21b(6,3,8,plext.plext) * F^{-4} * \sin x^4 - 51/8 * H21b(6,8,8,plext.plext) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 51/32 * H21b(6,8,8,plext.plext) * F^{-4} - \\
& 5/4 * H21b(6,8,8,plext.plext) * F^{-4} * \sin x^2 + 2 * H21b(6,8,8,plext.plext) * F^{-4} * \sin x^4 - 3 * H21b(7,6,6,plext.plext) * F^{-4} + 51/8 * H21b(8,2,4,plext.plext) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - \\
& 3/8 * H21b(8,2,4,plext.plext) * F^{-4} - 3/4 * H21b(8,2,4,plext.plext) * F^{-4} * \sin x^2) \\
& + \text{mud} * \text{mkp} 2^2 * (- 8/9 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L8r * \pi^{-2} - 8/3 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L7r * \pi^{-2} + 11699/442368 * F^{-4} * \pi^{-4} + 1891/331776 * F^{-4} * \pi^{-2} - \\
& 16/9 * F^{-4} * L8r * \pi^{-2} - 4/9 * F^{-4} * L7r * \pi^{-2} - 22/9 * F^{-4} * L6r * \pi^{-2} + 22/27 * F^{-4} * L5r * \pi^{-2} + 384 * F^{-4} * L5r * L8r + 640 * F^{-4} * L5r * L6r - 192 * F^{-4} * L5r^2 + \\
& 11/9 * F^{-4} * L4r * \pi^{-2} + 640 * F^{-4} * L4r * L8r + 1024 * F^{-4} * L4r * L6r - 640 * F^{-4} * L4r * L5r - 512 * F^{-4} * L4r^2 - 193/432 * F^{-4} * L3r * \pi^{-2} - 131/72 * F^{-4} * L2r * \pi^{-2} - \\
& 3/4 * F^{-4} * L1r * \pi^{-2} - 160 * F^{-4} * CC32 - 96 * F^{-4} * CC31 - 384 * F^{-4} * CC21 - 288 * F^{-4} * CC20 - 192 * F^{-4} * CC19 + 32 * F^{-4} * CC17 + 128 * F^{-4} * CC16 + 80 * F^{-4} * CC15 + 64 * F^{-4} * CC14 + 160 * F^{-4} * CC13 + \\
& 96 * F^{-4} * CC12 - 301/13824 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 8 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L8r * \pi^{-2} + 32/3 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L7r * \pi^{-2} + \\
& 4 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L6r * \pi^{-2} - 20/9 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L5r * \pi^{-2} - 5/3 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L4r * \pi^{-2} - 35/12 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L3r * \pi^{-2} - 4/3 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L2r * \pi^{-2} - 16/3 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L1r * \pi^{-2} + 1/432 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} - 16/3 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * L8r * \pi^{-2} - 16 * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * L7r * \pi^{-2} + 131/55296 * \ln(3) * F^{-4} * \pi^{-4} - 2/3 * \ln(3) * F^{-4} * L8r * \pi^{-2} - 1/3 * \ln(3) * F^{-4} * L7r * \pi^{-2} - 2/3 * \ln(3) * F^{-4} * L6r * \pi^{-2} + 5/18 * \ln(3) * F^{-4} * L5r * \pi^{-2} + 7/18 * \ln(3) * F^{-4} * L4r * \pi^{-2} + 5/18 * \ln(3) * F^{-4} * L3r * \pi^{-2} + 1/9 * \ln(3) * F^{-4} * L2r * \pi^{-2} + 4/9 * \ln(3) * F^{-4} * L1r * \pi^{-2} + 145/20736 * \ln(3) * F^{-4} * \sin x^2 * \pi^{-4} + 16/27 * \ln(3) * F^{-4} * \sin x^2 * L8r * \pi^{-2} + 16/9 * \ln(3) * F^{-4} * \sin x^2 * L7r * \pi^{-2} - 2/3 * \ln(3) * F^{-4} * \sin x^2 * L4r * \pi^{-2} + 7/6 * \ln(3) * F^{-4} * \sin x^2 * L3r * \pi^{-2} + 2/3 * \ln(3) * F^{-4} * \sin x^2 * L2r * \pi^{-2} + 8/3 * \ln(3) * F^{-4} * \sin x^2 * L1r * \pi^{-2} - 1/1296 * \ln(3) * F^{-4} * \sin x^4 * \pi^{-4} - 16/27 * \ln(3) * F^{-4} * \sin x^4 * L8r * \pi^{-2} - 16/9 * \ln(3) * F^{-4} * \sin x^4 * L7r * \pi^{-2} - 155/41472 * \ln(3)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - 23/6912 * \ln(3)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} + 1/144 * \ln(3)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x^5 * \cos x * \pi^{-4} + 83/165888 * \ln(3)^2 * F^{-4} * \pi^{-4} + 41/82944 * \ln(3)^2 * F^{-4} * \sin x^2 * \pi^{-4} + 1/6912 * \ln(3)^2 * F^{-4} * \sin x^4 * \pi^{-4} + 1/1296 * \ln(3)^2 * F^{-4} * \sin x^6 * \pi^{-4} - 1/384 * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 1/216 * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} + 139/165888 * \ln(3) * \ln(4) * F^{-4} * \pi^{-4} - 67/13824 * \ln(3) * \ln(4) * F^{-4} * \sin x^2 * \pi^{-4} + 1/216 * \ln(3) * \ln(4) * F^{-4} * \sin x^4 * \pi^{-4} + 11/1152 * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 5/864 * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} - 191/82944 * \ln(3) * \ln(6) * F^{-4} * \pi^{-4} + 5/4608 * \ln(3) * \ln(6) * F^{-4} * \sin x^2 * \pi^{-4} - 1/288 * \ln(3) * \ln(6) * F^{-4} * \sin x^4 * \pi^{-4} - 31/20736 * \ln(3) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 47/3456 * \ln(3) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4 - 1/72*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^5*\cos^*\pi^{-4} - 13/41472*\ln(3)*\ln(8)*F^{-4}*\pi^{-4} + 11/10368*\ln(3)*\ln(8)*F^{-4}*\sin^2*\pi^{-4} + 5/10368*\ln(3)*\ln(8)*F^{-4}*\sin^4*\pi^{-4} - 1/648*\ln(3)*\ln(8)*F^{-4}*\sin^6*\pi^{-4} + 1/432*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} - 1/1728*\ln(4)*F^{-4}*\pi^{-4} + \ln(4)*F^{-4}*L8r*\pi^{-2} + 2*\ln(4)*F^{-4}*L6r*\pi^{-2} - 1/2*\ln(4)*F^{-4}*L5r*\pi^{-2} - 2*\ln(4)*F^{-4}*L4r*\pi^{-2} + 5/8*\ln(4)*F^{-4}*L3r*\pi^{-2} + 1/2*\ln(4)*F^{-4}*L2r*\pi^{-2} + 2*\ln(4)*F^{-4}*L1r*\pi^{-2} + 1/576*\ln(4)*F^{-4}*\sin^2*\pi^{-4} + 1/512*\ln(4)*\ln(6)*F^{-4}*\pi^{-4} + 1/384*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} - 1/216*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^*\pi^{-4} - 121/165888*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} + 67/13824*\ln(4)*\ln(8)*F^{-4}*\sin^2*\pi^{-4} - 1/216*\ln(4)*\ln(8)*F^{-4}*\sin^4*\pi^{-4} - 1/1728*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} + 1/432*\ln(6)*F^{-4}*\pi^{-4} + 6*\ln(6)*F^{-4}*L8r*\pi^{-2} + 12*\ln(6)*F^{-4}*L6r*\pi^{-2} - 3*\ln(6)*F^{-4}*L5r*\pi^{-2} - 6*\ln(6)*F^{-4}*L4r*\pi^{-2} + 15/4*\ln(6)*F^{-4}*L3r*\pi^{-2} + 21/4*\ln(6)*F^{-4}*L2r*\pi^{-2} + 15/2*\ln(6)*F^{-4}*L1r*\pi^{-2} - 1/576*\ln(6)*F^{-4}*\sin^2*\pi^{-4} + 3/512*\ln(6)^2*\pi^{-4} - 11/1152*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} - 5/864*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^*\pi^{-4} - 349/82944*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} - 5/4608*\ln(6)*\ln(8)*F^{-4}*\sin^2*\pi^{-4} + 1/288*\ln(6)*\ln(8)*F^{-4}*\sin^4*\pi^{-4} + 317/13824*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} - 8*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*L8r*\pi^{-2} - 32/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*L7r*\pi^{-2} - 4*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*L6r*\pi^{-2} + 20/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*L5r*\pi^{-2} + 5/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*L4r*\pi^{-2} + 35/12*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*L3r*\pi^{-2} + 4/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*L2r*\pi^{-2} + 16/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*L1r*\pi^{-2} - 1/432*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^*\pi^{-4} + 16/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^*L8r*\pi^{-2} + 16*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^*L7r*\pi^{-2} + 1409/165888*\ln(8)*F^{-4}*\pi^{-4} - 2/9*\ln(8)*F^{-4}*L8r*\pi^{-2} + \ln(8)*F^{-4}*L7r*\pi^{-2} - 2/3*\ln(8)*F^{-4}*L6r*\pi^{-2} + 5/18*\ln(8)*F^{-4}*L5r*\pi^{-2} - 5/18*\ln(8)*F^{-4}*L4r*\pi^{-2} + 13/9*\ln(8)*F^{-4}*L3r*\pi^{-2} + 7/9*\ln(8)*F^{-4}*L2r*\pi^{-2} + 28/9*\ln(8)*F^{-4}*L1r*\pi^{-2} - 145/20736*\ln(8)*F^{-4}*\sin^2*\pi^{-4} - 16/27*\ln(8)*F^{-4}*\sin^2*L8r*\pi^{-2} - 16/9*\ln(8)*F^{-4}*\sin^2*L7r*\pi^{-2} + 2/3*\ln(8)*F^{-4}*\sin^2*L4r*\pi^{-2} - 7/6*\ln(8)*F^{-4}*\sin^2*L3r*\pi^{-2} - 2/3*\ln(8)*F^{-4}*\sin^2*L2r*\pi^{-2} - 8/3*\ln(8)*F^{-4}*\sin^2*L1r*\pi^{-2} + 1/1296*\ln(8)*F^{-4}*\sin^4*\pi^{-4} + 16/27*\ln(8)*F^{-4}*\sin^4*L8r*\pi^{-2} + 16/9*\ln(8)*F^{-4}*\sin^4*L7r*\pi^{-2} + 217/41472*\ln(8)^2*\pi^{-4} + 1/144*\ln(8)^2*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} - 71/6912*\ln(8)^2*\sqrt{3}^{-1}*\sin^3*\cos^*\pi^{-4} + 1/144*\ln(8)^2*\sqrt{3}^{-1}*\sin^5*\cos^*\pi^{-4} + 269/165888*\ln(8)^2*\pi^{-4} - 43/27648*\ln(8)^2*\sqrt{3}^{-1}*\sin^2*\pi^{-4} - 13/20736*\ln(8)^2*\sqrt{3}^{-1}*\sin^4*\pi^{-4} + 1/1296*\ln(8)^2*\sqrt{3}^{-1}*\sin^6*\pi^{-4}) \\
& + \text{mud}*\text{mkp}2^3 * (- 175/9216/(\text{mass}(3))^*\ln(3)^2*\pi^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} + 121/82944/(\text{mass}(3))^*\ln(3)^2*\pi^{-4} + 43/5184/(\text{mass}(3))^*\ln(3)^2*\pi^{-4}*\sin^2*\pi^{-4} + 205/110592/(\text{mass}(4))^*\ln(4)^2*\pi^{-4} + 83/110592/(\text{mass}(5))^*\ln(4)^2*\pi^{-4}*\pi^{-4} + 1427/55296/(\text{mass}(6))^*\ln(6)^2*\pi^{-4} + 203/27648/(\text{mass}(7))^*\ln(6)^2*\pi^{-4}*\pi^{-4} + 175/9216/(\text{mass}(8))^*\ln(8)^2*\pi^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} + 809/82944/(\text{mass}(8))^*\ln(8)^2*\pi^{-4} - 43/5184/(\text{mass}(8))^*\ln(8)^2*\pi^{-4}*\sin^2*\pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& + \text{mud} * \text{mpp2} * (- 3 * \text{HH1b}(2,3,4, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - \\
& 3 * \text{HH1b}(3,2,4, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - 13/3 * \text{HH1b}(3,3,6, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x + 8/3 * \text{HH1b}(3,3,6, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \\
& + 1/6 * \text{HH1b}(3,3,6, \text{plext.plext}) * F^{-4} + 8/9 * \text{HH1b}(3,3,6, \text{plext.plext}) * F^{-4} \sin x^2 - 8/9 * \text{HH1b}(3,3,6, \text{plext.plext}) * F^{-4} \sin x^4 - 3 * \text{HH1b}(4,2,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - 4/3 * \text{HH1b}(6,3,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x \\
& + 8/3 * \text{HH1b}(6,3,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x + 1/6 * \text{HH1b}(6,3,8, \text{plext.plext}) * F^{-4} + 8/9 * \text{HH1b}(6,3,8, \text{plext.plext}) * F^{-4} \sin x^2 - 8/9 * \text{HH1b}(6,3,8, \text{plext.plext}) * F^{-4} \sin x^4 - 5/6 * \text{HH1b}(6,8,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - 4/3 * \text{HH1b}(6,8,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x - 1/12 * \text{HH1b}(6,8,8, \text{plext.plext}) * F^{-4} - 4/9 * \text{HH1b}(6,8,8, \text{plext.plext}) * F^{-4} \sin x^2 + 4/9 * \text{HH1b}(6,8,8, \text{plext.plext}) * F^{-4} \sin x^4 - 1/4 * \text{Hb}(1,2,6, \text{plext.plext}) * F^{-4} + 21/8 * \text{Hb}(2,3,4, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - 3/16 * \text{Hb}(2,3,4, \text{plext.plext}) * F^{-4} + 1/8 * \text{Hb}(2,3,4, \text{plext.plext}) * F^{-4} \sin x^2 + 3/8 * \text{Hb}(2,4,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - 1/16 * \text{Hb}(2,4,8, \text{plext.plext}) * F^{-4} - 1/8 * \text{Hb}(2,4,8, \text{plext.plext}) * F^{-4} \sin x^2 - 3/8 * \text{Hb}(3,2,4, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - 3/16 * \text{Hb}(3,2,4, \text{plext.plext}) * F^{-4} + 1/8 * \text{Hb}(3,2,4, \text{plext.plext}) * F^{-4} \sin x^2 + 31/18 * \text{Hb}(3,3,6, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - 10/9 * \text{Hb}(3,3,6, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x - 5/72 * \text{Hb}(3,3,6, \text{plext.plext}) * F^{-4} - 10/27 * \text{Hb}(3,3,6, \text{plext.plext}) * F^{-4} \sin x^2 + 10/27 * \text{Hb}(3,3,6, \text{plext.plext}) * F^{-4} \sin x^4 + 2/9 * \text{Hb}(3,6,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - 4/9 * \text{Hb}(3,6,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x - 1/36 * \text{Hb}(3,6,8, \text{plext.plext}) * F^{-4} - 4/27 * \text{Hb}(3,6,8, \text{plext.plext}) * F^{-4} \sin x^2 + 4/27 * \text{Hb}(3,6,8, \text{plext.plext}) * F^{-4} \sin x^4 + 1/4 * \text{Hb}(4,2,3, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - 1/4 * \text{Hb}(4,2,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - 5/8 * \text{Hb}(6,3,3, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x + 1/2 * \text{Hb}(6,3,3, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x + 1/32 * \text{Hb}(6,3,3, \text{plext.plext}) * F^{-4} + 1/6 * \text{Hb}(6,3,3, \text{plext.plext}) * F^{-4} \sin x^2 - 1/6 * \text{Hb}(6,3,3, \text{plext.plext}) * F^{-4} \sin x^4 + 1/2 * \text{Hb}(6,3,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - \text{Hb}(6,3,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x - 1/16 * \text{Hb}(6,3,8, \text{plext.plext}) * F^{-4} - 1/3 * \text{Hb}(6,3,8, \text{plext.plext}) * F^{-4} \sin x^2 + 1/3 * \text{Hb}(6,3,8, \text{plext.plext}) * F^{-4} \sin x^4 + 25/72 * \text{Hb}(6,8,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x + 13/18 * \text{Hb}(6,8,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x + 13/288 * \text{Hb}(6,8,8, \text{plext.plext}) * F^{-4} + 13/54 * \text{Hb}(6,8,8, \text{plext.plext}) * F^{-4} \sin x^2 - 13/54 * \text{Hb}(6,8,8, \text{plext.plext}) * F^{-4} \sin x^4 + 3/8 * \text{Hb}(8,2,4, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - 1/16 * \text{Hb}(8,2,4, \text{plext.plext}) * F^{-4} - 1/8 * \text{Hb}(8,2,4, \text{plext.plext}) * F^{-4} \sin x^2 + 9/8 * \text{H21b}(2,3,4, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - 9/8 * \text{H21b}(2,4,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x + 9/8 * \text{H21b}(3,2,4, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - 9/4 * \text{H21b}(4,2,3, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x + 9/4 * \text{H21b}(4,2,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - 15/8 * \text{H21b}(6,3,3, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x + 3/2 * \text{H21b}(6,3,3, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x + 3/32 * \text{H21b}(6,3,3, \text{plext.plext}) * F^{-4} + 1/2 * \text{H21b}(6,3,3, \text{plext.plext}) * F^{-4} \sin x^2 - 1/2 * \text{H21b}(6,3,3, \text{plext.plext}) * F^{-4} \sin x^4 + 3/2 * \text{H21b}(6,3,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x - 3 * \text{H21b}(6,3,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x - 3/16 * \text{H21b}(6,3,8, \text{plext.plext}) * F^{-4} - \text{H21b}(6,3,8, \text{plext.plext}) * F^{-4} \sin x^2 + \text{H21b}(6,3,8, \text{plext.plext}) * F^{-4} \sin x^4 + 3/8 * \text{H21b}(6,8,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x + 3/2 * \text{H21b}(6,8,8, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x + 3/32 * \text{H21b}(6,8,8, \text{plext.plext}) * F^{-4} + 1/2 * \text{H21b}(6,8,8, \text{plext.plext}) * F^{-4} \sin x^2 - 1/2 * \text{H21b}(6,8,8, \text{plext.plext}) * F^{-4} \sin x^4 - 9/8 * \text{H21b}(8,2,4, \text{plext.plext}) * F^{-4} \sqrt{3}^{-1} \sin x \cos x)
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}^* \text{mpp2}^* \text{mkp2}^* \left(+ 16/9 * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * L8r * \pi^{-2} + 16/3 * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * L7r * \pi^{-2} + 215/110592 * F^{-4} * \pi^{-4} + 55/82944 * F^{-4} * \pi^{-2} + 2/3 * F^{-4} * L8r * \pi^{-2} + 4/3 * F^{-4} * L7r * \pi^{-2} - 2/3 * F^{-4} * L6r * \pi^{-2} - 1/9 * F^{-4} * L5r * \pi^{-2} + 256 * F^{-4} * L5r * L6r + 1/3 * F^{-4} * L4r * \pi^{-2} + 256 * F^{-4} * L4r * L8r + 768 * F^{-4} * L4r * L6r - 256 * F^{-4} * L4r * L5r - 384 * F^{-4} * L4r^2 + 1/36 * F^{-4} * L3r * \pi^{-2} + 1/6 * F^{-4} * L2r * \pi^{-2} - 64 * F^{-4} * CC32 - 288 * F^{-4} * CC21 + 32 * F^{-4} * CC20 + 96 * F^{-4} * CC19 + 32 * F^{-4} * CC17 - 96 * F^{-4} * CC16 + 32 * F^{-4} * CC15 - 32 * F^{-4} * CC14 + 64 * F^{-4} * CC13 + 1/864 * \ln(1) * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * \pi^{-4} + 29/13824 * \ln(1) * F^{-4} * \pi^{-4} + 5/3072 * \ln(1) * \ln(3) * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * \pi^{-4} - 1/864 * \ln(1) * \ln(3) * F^{-4} * \text{sqrt3}^{-1} * \sin x^3 * \cos x * \pi^{-4} - 1/6144 * \ln(1) * \ln(3) * F^{-4} * \pi^{-4} + 43/41472 * \ln(1) * \ln(3) * F^{-4} * \sin x^2 * \pi^{-4} - 1/2592 * \ln(1) * \ln(3) * F^{-4} * \sin x^4 * \pi^{-4} + 1/1024 * \ln(1) * \ln(4) * F^{-4} * \pi^{-4} + 1/512 * \ln(1) * \ln(6) * F^{-4} * \pi^{-4} - 5/3072 * \ln(1) * \ln(8) * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * \pi^{-4} + 1/864 * \ln(1) * \ln(8) * F^{-4} * \text{sqrt3}^{-1} * \sin x^3 * \cos x * \pi^{-4} + 1/2048 * \ln(1) * \ln(8) * F^{-4} * \pi^{-4} - 43/41472 * \ln(1) * \ln(8) * F^{-4} * \sin x^2 * \pi^{-4} + 1/2592 * \ln(1) * \ln(8) * F^{-4} * \sin x^4 * \pi^{-4} + 293/55296 * \ln(3) * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * \pi^{-4} - 40/9 * \ln(3) * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * L8r * \pi^{-2} - 11 * \ln(3) * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * L7r * \pi^{-2} + 14/3 * \ln(3) * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * L6r * \pi^{-2} + 7/18 * \ln(3) * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * L5r * \pi^{-2} - 23/6 * \ln(3) * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * L4r * \pi^{-2} + \ln(3) * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * L3r * \pi^{-2} + 1/3 * \ln(3) * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * L2r * \pi^{-2} + 4/3 * \ln(3) * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * L1r * \pi^{-2} - 1/432 * \ln(3) * F^{-4} * \text{sqrt3}^{-1} * \sin x^3 * \cos x * \pi^{-4} + 80/9 * \ln(3) * F^{-4} * \text{sqrt3}^{-1} * \sin x^3 * \cos x * L8r * \pi^{-2} + 80/3 * \ln(3) * F^{-4} * \text{sqrt3}^{-1} * \sin x^3 * \cos x * L7r * \pi^{-2} + 31/18432 * \ln(3) * F^{-4} * \pi^{-4} + 1/2 * \ln(3) * F^{-4} * L8r * \pi^{-2} + 3/2 * \ln(3) * F^{-4} * L7r * \pi^{-2} - 2/3 * \ln(3) * F^{-4} * L6r * \pi^{-2} + 5/9 * \ln(3) * F^{-4} * L4r * \pi^{-2} - 1/18 * \ln(3) * F^{-4} * L3r * \pi^{-2} - 1/18 * \ln(3) * F^{-4} * L2r * \pi^{-2} - 2/9 * \ln(3) * F^{-4} * L1r * \pi^{-2} - 179/82944 * \ln(3) * F^{-4} * \sin x^2 * \pi^{-4} - 16/9 * \ln(3) * F^{-4} * \sin x^2 * L8r * \pi^{-2} - 14/3 * \ln(3) * F^{-4} * \sin x^2 * L7r * \pi^{-2} - 4/3 * \ln(3) * F^{-4} * \sin x^2 * L6r * \pi^{-2} + 1/9 * \ln(3) * F^{-4} * \sin x^2 * L5r * \pi^{-2} + 11/9 * \ln(3) * F^{-4} * \sin x^2 * L4r * \pi^{-2} - 7/18 * \ln(3) * F^{-4} * \sin x^2 * L3r * \pi^{-2} - 2/9 * \ln(3) * F^{-4} * \sin x^2 * L2r * \pi^{-2} - 8/9 * \ln(3) * F^{-4} * \sin x^2 * L1r * \pi^{-2} + 1/1296 * \ln(3) * F^{-4} * \sin x^4 * \pi^{-4} + 16/9 * \ln(3) * F^{-4} * \sin x^4 * L8r * \pi^{-2} + 16/3 * \ln(3) * F^{-4} * \sin x^4 * L7r * \pi^{-2} + 781/165888 * \ln(3)^2 * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * \pi^{-4} - 7/6912 * \ln(3)^2 * F^{-4} * \text{sqrt3}^{-1} * \sin x^3 * \cos x * \pi^{-4} - 1/216 * \ln(3)^2 * F^{-4} * \text{sqrt3}^{-1} * \sin x^5 * \cos x * \pi^{-4} - 23/331776 * \ln(3)^2 * F^{-4} * \pi^{-4} - 35/82944 * \ln(3)^2 * F^{-4} * \sin x^2 * \pi^{-4} + 25/20736 * \ln(3)^2 * F^{-4} * \sin x^4 * \pi^{-4} - 1/648 * \ln(3)^2 * F^{-4} * \sin x^6 * \pi^{-4} + 137/55296 * \ln(3) * \ln(4) * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * \pi^{-4} - 5/864 * \ln(3) * \ln(4) * F^{-4} * \text{sqrt3}^{-1} * \sin x^3 * \cos x * \pi^{-4} + 89/82944 * \ln(3) * \ln(4) * F^{-4} * \pi^{-4} + 77/82944 * \ln(3) * \ln(4) * F^{-4} * \sin x^2 * \pi^{-4} - 7/2592 * \ln(3) * \ln(4) * F^{-4} * \sin x^4 * \pi^{-4} + 11/27648 * \ln(3) * \ln(6) * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * \pi^{-4} - 1/96 * \ln(3) * \ln(6) * F^{-4} * \text{sqrt3}^{-1} * \sin x^3 * \cos x * \pi^{-4} - 71/82944 * \ln(3) * \ln(6) * F^{-4} * \pi^{-4} + 49/41472 * \ln(3) * \ln(6) * F^{-4} * \sin x^2 * \pi^{-4} - 1/2592 * \ln(3) * \ln(6) * F^{-4} * \sin x^4 * \pi^{-4} + 17/20736 * \ln(3) * \ln(8) * F^{-4} * \text{sqrt3}^{-1} * \sin x * \cos x * \pi^{-4} - 11/1152 * \ln(3) * \ln(8) * F^{-4} * \text{sqrt3}^{-1} * \sin x^3 * \cos x * \pi^{-4} + 1/108 * \ln(3) * \ln(8) * F^{-4} * \text{sqrt3}^{-1} * \sin x^5 * \cos x * \pi^{-4} + 113/165888 * \ln(3) * \ln(8) * F^{-4} * \pi^{-4} + 17/10368 * \ln(3) * \ln(8) * F^{-4} * \sin x^2 * \pi^{-4} - 49/10368 * \ln(3) * \ln(8) * F^{-4} * \pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4*\sinx^4*\pi^{-4} + 1/324*\ln(3)*\ln(8)*F^{-4}*\sinx^6*\pi^{-4} - 19/6912*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} + 13/4608*\ln(4)*F^{-4}*\pi^{-4} - 5/3456*\ln(4)*F^{-4}*\sinx^2*\pi^{-4} - 137/55296*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} + 5/864*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx^3*\cosx*\pi^{-4} - 1/10368*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} - 77/82944*\ln(4)*\ln(8)*F^{-4}*\sinx^2*\pi^{-4} + 7/2592*\ln(4)*\ln(8)*F^{-4}*\sinx^4*\pi^{-4} - 13/6912*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} + 13/13824*\ln(6)*F^{-4}*\pi^{-4} + 5/3456*\ln(6)*F^{-4}*\sinx^2*\pi^{-4} - 11/27648*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} + 1/96*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx^3*\cosx*\pi^{-4} + 71/82944*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} - 49/41472*\ln(6)*\ln(8)*F^{-4}*\sinx^2*\pi^{-4} + 1/2592*\ln(6)*\ln(8)*F^{-4}*\sinx^4*\pi^{-4} - 421/55296*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} + 40/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L8r*\pi^{-2} + 11*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L7r*\pi^{-2} - 14/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L6r*\pi^{-2} - 7/18*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L5r*\pi^{-2} + 23/6*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L4r*\pi^{-2} - \ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L3r*\pi^{-2} - 1/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L2r*\pi^{-2} - 4/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx*\cosx*L1r*\pi^{-2} + 1/432*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx^3*\cosx*\pi^{-4} - 80/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx^3*\cosx*L8r*\pi^{-2} - 80/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx^3*\cosx*L7r*\pi^{-2} + 19/55296*\ln(8)*F^{-4}*\pi^{-4} - 5/18*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx^3*\cosx*L6r*\pi^{-2} + 16/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx^3*\cosx*L5r*\pi^{-2} + 16/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx^3*\cosx*L4r*\pi^{-2} - 4/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx^3*\cosx*L3r*\pi^{-2} - 5/18*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx^3*\cosx*L2r*\pi^{-2} - 10/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sinx^3*\cosx*L1r*\pi^{-2} + 179/82944*\ln(8)*F^{-4}*\sinx^2*\pi^{-4} + 16/9*\ln(8)*F^{-4}*\sinx^2*L8r*\pi^{-2} + 14/3*\ln(8)*F^{-4}*\sinx^2*L7r*\pi^{-2} + 4/3*\ln(8)*F^{-4}*\sinx^2*L6r*\pi^{-2} - 1/9*\ln(8)*F^{-4}*\sinx^2*L5r*\pi^{-2} - 11/9*\ln(8)*F^{-4}*\sinx^2*L4r*\pi^{-2} + 7/18*\ln(8)*F^{-4}*\sinx^2*L3r*\pi^{-2} + 2/9*\ln(8)*F^{-4}*\sinx^2*L2r*\pi^{-2} + 8/9*\ln(8)*F^{-4}*\sinx^2*L1r*\pi^{-2} - 1/1296*\ln(8)*F^{-4}*\sinx^4*\pi^{-4} - 16/9*\ln(8)*F^{-4}*\sinx^4*L8r*\pi^{-2} - 16/3*\ln(8)*F^{-4}*\sinx^4*L7r*\pi^{-2} - 917/165888*\ln(8)^2*\sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} + 73/6912*\ln(8)^2*\sqrt{3}^{-1}*\sinx^3*\cosx*\pi^{-4} - 1/216*\ln(8)^2*\sqrt{3}^{-1}*\sinx^5*\cosx*\pi^{-4} - 107/331776*\ln(8)^2*\pi^{-4} - 101/82944*\ln(8)^2*\sqrt{3}^{-1}*\sinx^2*\pi^{-4} + 73/20736*\ln(8)^2*\sqrt{3}^{-1}*\sinx^4*\pi^{-4} - 1/648*\ln(8)^2*\sqrt{3}^{-1}*\sinx^6*\pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}*\text{mpp}^2*\text{mkp}^2 \cdot (+ 271/27648/(\text{mass}(3))^*\ln(3)^2*\sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} - 43/165888/(\text{mass}(3))^*\ln(3)^2*\pi^{-4} - 43/13824/(\text{mass}(3))^*\ln(3)^2*\sqrt{3}^{-1}*\sinx^2*\pi^{-4} + 23/27648/(\text{mass}(4))^*\ln(4)^2*\pi^{-4} + 1/6912/(\text{mass}(5))^*\ln(4)^2*\sqrt{3}^{-1}*\pi^{-4} + 107/55296/(\text{mass}(6))^*\ln(6)^2*\pi^{-4} - 13/27648/(\text{mass}(7))^*\ln(6)^2*\sqrt{3}^{-1}*\pi^{-4} - 271/27648/(\text{mass}(8))^*\ln(8)^2*\sqrt{3}^{-1}*\sinx*\cosx*\pi^{-4} - 559/165888/(\text{mass}(8))^*\ln(8)^2*\pi^{-4} + 43/13824/(\text{mass}(8))^*\ln(8)^2*\sqrt{3}^{-1}*\sinx^2*\pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}*\text{mpp}^2 \cdot (- 8/9*\sqrt{3}^{-1}*\sinx*\cosx*L8r*\pi^{-2} - 8/3*\sqrt{3}^{-1}*\sqrt{3}^{-1}*\sinx*\cosx*L7r*\pi^{-2} + 13/6144*\sqrt{3}^{-1}*\pi^{-4} + 1/2048*\sqrt{3}^{-1}*\pi^{-2} - 1/3*\sqrt{3}^{-1}*\sqrt{3}^{-1}*\pi^{-2} - 8/9*\sqrt{3}^{-1}*\sqrt{3}^{-1}*\pi^{-2} + 1/9*\sqrt{3}^{-1}*\sqrt{3}^{-1}*\pi^{-2} + 1/54*\sqrt{3}^{-1}*\sqrt{3}^{-1}*\pi^{-2} - 1/18*\sqrt{3}^{-1}*\sqrt{3}^{-1}*\pi^{-2} + 128*\sqrt{3}^{-1}*\sqrt{3}^{-1}*\pi^{-2} - 64*\sqrt{3}^{-1}*\sqrt{3}^{-1}*\pi^{-2} - 41/432*\sqrt{3}^{-1}*\sqrt{3}^{-1}*\pi^{-2} - 7/18*\sqrt{3}^{-1}*\sqrt{3}^{-1}*\pi^{-2} - 48*\sqrt{3}^{-1}*\sqrt{3}^{-1}*\pi^{-2} - 48*\sqrt{3}^{-1}*\sqrt{3}^{-1}*\pi^{-2} - 48*\sqrt{3}^{-1}*\sqrt{3}^{-1}*\pi^{-2} - 16*\sqrt{3}^{-1}*\sqrt{3}^{-1}*\pi^{-2} + 48*\sqrt{3}^{-1}*\sqrt{3}^{-1}*\pi^{-2} + 16*\sqrt{3}^{-1}*\sqrt{3}^{-1}*\pi^{-2})
\end{aligned}$$

$$\begin{aligned}
& - 1/864 \ln(1) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 1/3456 \ln(1) F^{-4} \pi^{-4} + \\
& \ln(1) F^{-4} L_{8r} \pi^{-2} + 2 \ln(1) F^{-4} L_{6r} \pi^{-2} - 1/2 \ln(1) F^{-4} L_{5r} \pi^{-2} - \\
& 2 \ln(1) F^{-4} L_{4r} \pi^{-2} + 5/8 \ln(1) F^{-4} L_{3r} \pi^{-2} + 1/2 \ln(1) F^{-4} L_{2r} \pi^{-2} + \\
& 2 \ln(1) F^{-4} L_{1r} \pi^{-2} + 1/4608 \ln(1) \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + \\
& 5/1728 \ln(1) \ln(3) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} + 5/9216 \ln(1) \ln(3) F^{-4} \pi^{-4} - \\
& 41/82944 \ln(1) \ln(3) F^{-4} \sin x^2 \pi^{-4} + 1/2592 \ln(1) \ln(3) F^{-4} \sin x^4 \pi^{-4} - \\
& 1/4608 \ln(1) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 5/1728 \ln(1) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} + \\
& 1/4608 \ln(1) \ln(8) F^{-4} \pi^{-4} + 41/82944 \ln(1) \ln(8) F^{-4} \sin x^2 \pi^{-4} - \\
& 1/2592 \ln(1) \ln(8) F^{-4} \sin x^4 \pi^{-4} - 17/6912 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + \\
& 13/9 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L_{8r} \pi^{-2} + 10/3 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L_{7r} \pi^{-2} + \\
& 1/3 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L_{6r} \pi^{-2} - 1/6 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L_{5r} \pi^{-2} - \\
& 1/4 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L_{4r} \pi^{-2} - 13/48 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L_{3r} \pi^{-2} - \\
& 32/9 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x L_{8r} \pi^{-2} - 32/3 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x L_{7r} \pi^{-2} + \\
& 11/110592 \ln(3) F^{-4} \pi^{-4} + 1/6 \ln(3) F^{-4} L_{8r} \pi^{-2} - 2/3 \ln(3) F^{-4} L_{7r} \pi^{-2} + 5/6 \ln(3) F^{-4} L_{6r} \pi^{-2} - \\
& 7/36 \ln(3) F^{-4} L_{5r} \pi^{-2} - 59/72 \ln(3) F^{-4} L_{4r} \pi^{-2} + 7/9 \ln(3) F^{-4} L_{3r} \pi^{-2} + \\
& 7/9 \ln(3) F^{-4} L_{2r} \pi^{-2} + 7/9 \ln(3) F^{-4} L_{1r} \pi^{-2} - 31/165888 \ln(3) F^{-4} \sin x^2 \pi^{-4} + 23/27 \ln(3) F^{-4} \sin x^2 L_{8r} \pi^{-2} + \\
& 29/9 \ln(3) F^{-4} \sin x^2 L_{7r} \pi^{-2} - 1/3 \ln(3) F^{-4} \sin x^2 L_{6r} \pi^{-2} + 1/9 \ln(3) F^{-4} \sin x^2 L_{5r} \pi^{-2} + 13/36 \ln(3) F^{-4} \sin x^2 L_{4r} \pi^{-2} - \\
& 19/144 \ln(3) F^{-4} \sin x^2 L_{3r} \pi^{-2} - 1/9 \ln(3) F^{-4} \sin x^2 L_{2r} \pi^{-2} - 4/9 \ln(3) F^{-4} \sin x^2 L_{1r} \pi^{-2} - 32/27 \ln(3) F^{-4} \sin x^4 L_{8r} \pi^{-2} - \\
& 32/9 \ln(3) F^{-4} \sin x^4 L_{7r} \pi^{-2} - 467/165888 \ln(3)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 3/1024 \ln(3)^2 F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} - \\
& 1/1728 \ln(3)^2 F^{-4} \sqrt{3}^{-1} \sin x^5 \cos x \pi^{-4} + 7/82944 \ln(3)^2 F^{-4} \pi^{-4} - 19/55296 \ln(3)^2 F^{-4} \sin x^2 \pi^{-4} + 23/82944 \ln(3)^2 F^{-4} \sin x^4 \pi^{-4} + \\
& 1/5184 \ln(3)^2 F^{-4} \sin x^6 \pi^{-4} - 5/55296 \ln(3) \ln(4) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 7/3456 \ln(3) \ln(4) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} + \\
& 25/165888 \ln(3) \ln(4) F^{-4} \pi^{-4} - 53/82944 \ln(3) \ln(4) F^{-4} \sin x^2 \pi^{-4} + 7/10368 \ln(3) \ln(4) F^{-4} \sin x^4 \pi^{-4} + 1/6912 \ln(3) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + \\
& 7/3456 \ln(3) \ln(6) F^{-4} \pi^{-4} - 107/82944 \ln(3) \ln(6) F^{-4} \sin x^2 \pi^{-4} + 13/10368 \ln(3) \ln(6) F^{-4} \sin x^4 \pi^{-4} + 11/82944 \ln(3) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - \\
& 17/13824 \ln(3) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} + 1/864 \ln(3) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x^5 \cos x \pi^{-4} + 11/165888 \ln(3) \ln(8) F^{-4} \pi^{-4} - \\
& 25/41472 \ln(3) \ln(8) F^{-4} \sin x^2 \pi^{-4} + 41/41472 \ln(3) \ln(8) F^{-4} \sin x^4 \pi^{-4} - 1/2592 \ln(3) \ln(8) F^{-4} \sin x^6 \pi^{-4} + 1/1152 \ln(4) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - \\
& 1/13824 \ln(4) F^{-4} \pi^{-4} + 1/6912 \ln(4) F^{-4} \sin x^2 \pi^{-4} + 5/55296 \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 7/3456 \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} - 25/165888 \ln(4) \ln(8) F^{-4} \pi^{-4} + \\
& 53/82944 \ln(4) \ln(8) F^{-4} \sin x^2 \pi^{-4} - 7/10368 \ln(4) \ln(8) F^{-4} \sin x^4 \pi^{-4} + 7/3456 \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 1/4608 \ln(6) F^{-4} \pi^{-4} - \\
& 1/6912 \ln(6) F^{-4} \sin x^2 \pi^{-4} - 1/6912 \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 7/3456 \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} -
\end{aligned}$$

$$\begin{aligned}
& 11/165888*\ln(6)*\ln(8)*F^{-4}\pi^{-4} + 107/82944*\ln(6)*\ln(8)*F^{-4}\sin^2\pi^{-4} - \\
& 4 - 13/10368*\ln(6)*\ln(8)*F^{-4}\sin^4\pi^{-4} + 25/6912*\ln(8)*F^{-4}\sqrt{3}^{-1} \\
& * \sin^2\pi^{-4} - 13/9*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin^2\cos^2\pi^{-4} - 10/3*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}\sin^2\cos^2\pi^{-4} - 1/3*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin^2\cos^2\pi^{-4} - 1/6*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}\sin^2\cos^2\pi^{-4} + 1/4*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin^2\cos^2\pi^{-4} + \\
& 32/9*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin^2\cos^2\pi^{-4} + 32/3*\ln(8)*F^{-4}\sqrt{3}^{-1}\sin^2\cos^2\pi^{-4} - \\
& 13/331776*\ln(8)*F^{-4}\pi^{-4} + 1/6*\ln(8)*F^{-4}L8r\pi^{-4} + 1/2*\ln(8)*F^{-4}L6r\pi^{-4} - \\
& 1/12*\ln(8)*F^{-4}L5r\pi^{-4} - 11/24*\ln(8)*F^{-4}L4r\pi^{-4} + 11/96*\ln(8)*F^{-4}L3r\pi^{-4} + 1/12*\ln(8)*F^{-4} \\
& * L2r\pi^{-4} + 1/3*\ln(8)*F^{-4}L1r\pi^{-4} + 31/165888*\ln(8)*F^{-4}\sin^2\pi^{-4} - \\
& 23/27*\ln(8)*F^{-4}\sin^2L8r\pi^{-4} - 29/9*\ln(8)*F^{-4}\sin^2L7r\pi^{-4} + \\
& 1/3*\ln(8)*F^{-4}\sin^2L6r\pi^{-4} - 1/9*\ln(8)*F^{-4}\sin^2L5r\pi^{-4} - \\
& 13/36*\ln(8)*F^{-4}\sin^2L4r\pi^{-4} + 19/144*\ln(8)*F^{-4}\sin^2L3r\pi^{-4} + \\
& 1/9*\ln(8)*F^{-4}\sin^2L2r\pi^{-4} + 4/9*\ln(8)*F^{-4}\sin^2L1r\pi^{-4} + \\
& 32/27*\ln(8)*F^{-4}\sin^4L8r\pi^{-4} + 32/9*\ln(8)*F^{-4}\sin^4L7r\pi^{-4} + \\
& 445/165888*\ln(8)^2F^{-4}\sqrt{3}^{-1}\sin^2\cos^2\pi^{-4} - 47/27648*\ln(8)^2F^{-4} \\
& * \sqrt{3}^{-1}\sin^2\cos^2\pi^{-4} - 1/1728*\ln(8)^2F^{-4}\sqrt{3}^{-1}\sin^5\cos^2\pi^{-4} - \\
& 1/165888*\ln(8)^2F^{-4}\pi^{-4} + 157/165888*\ln(8)^2F^{-4}\sin^2\pi^{-4} - \\
& 35/27648*\ln(8)^2F^{-4}\sin^4\pi^{-4} + 1/5184*\ln(8)^2F^{-4}\sin^6\pi^{-4}) \\
& + \text{mud}^* \text{mpp}2^2 * \text{mkp}2 * (+ 1/13824/(\text{mass}(1))^*\ln(1)^2F^{-4}\pi^{-4} + \\
& 43/27648/(\text{mass}(2))^*\ln(1)^2F^{-4}\pi^{-4} - 413/110592/(\text{mass}(3))^*\ln(3)^2F^{-4} \\
& * \sqrt{3}^{-1}\sin^2\cos^2\pi^{-4} + 385/331776/(\text{mass}(3))^*\ln(3)^2F^{-4}\pi^{-4} - \\
& 65/165888/(\text{mass}(3))^*\ln(3)^2F^{-4}\sin^2\pi^{-4} - 1/13824/(\text{mass}(6))^*\ln(6)^2F^{-4} \\
& * \pi^{-4} + 1/13824/(\text{mass}(7))^*\ln(6)^2F^{-4}\pi^{-4} + 413/110592/(\text{mass}(8))^*\ln(8)^2F^{-4} \\
& * \sqrt{3}^{-1}\sin^2\cos^2\pi^{-4} + 85/110592/(\text{mass}(8))^*\ln(8)^2F^{-4}\pi^{-4} + \\
& 65/165888/(\text{mass}(8))^*\ln(8)^2F^{-4}\sin^2\pi^{-4}) \\
& + \text{mud}^* \text{mpp}2^3 * (+ 115/110592/(\text{mass}(1))^*\ln(1)^2F^{-4}\pi^{-4} + 101/110592/(\text{mass}(2))^*\ln(1)^2F^{-4} \\
& * \pi^{-4} - 95/110592/(\text{mass}(3))^*\ln(3)^2F^{-4}\sqrt{3}^{-1}\sin^2\cos^2\pi^{-4} \\
& + 3/4096/(\text{mass}(3))^*\ln(3)^2F^{-4}\pi^{-4} - 1/2048/(\text{mass}(3))^*\ln(3)^2F^{-4} \\
& * \sin^2\pi^{-4} + 95/110592/(\text{mass}(8))^*\ln(8)^2F^{-4}\sqrt{3}^{-1}\sin^2\cos^2\pi^{-4} \\
& + 1/4096/(\text{mass}(8))^*\ln(8)^2F^{-4}\pi^{-4} + 1/2048/(\text{mass}(8))^*\ln(8)^2F^{-4} \\
& * \sin^2\pi^{-4}) \\
& + \text{mud}^2 * (+ 1/2*HH1b(2,3,4,\text{plext}.\text{plext})*F^{-4}\sqrt{3}^{-1}\sin^2\cos^2 \\
& - 1/4*HH1b(2,3,4,\text{plext}.\text{plext})*F^{-4} + 1/2*HH1b(2,3,4,\text{plext}.\text{plext})*F^{-4} \\
& * \sin^2 - 4*HH1b(2,4,8,\text{plext}.\text{plext})*F^{-4}\sqrt{3}^{-1}\sin^2\cos^2 - 7/2*HH1b(3,2,4,\text{plext}.\text{plext})*F^{-4} \\
& * \sqrt{3}^{-1}\sin^2\cos^2 - 1/4*HH1b(3,2,4,\text{plext}.\text{plext})*F^{-4} + 1/2*HH1b(3,2,4,\text{plext}.\text{plext})*F^{-4} \\
& * \sin^2 - 15/2*HH1b(3,3,6,\text{plext}.\text{plext})*F^{-4}\sqrt{3}^{-1}\sin^2\cos^2 + \\
& 19/12*HH1b(3,3,6,\text{plext}.\text{plext})*F^{-4} + 25/18*HH1b(3,3,6,\text{plext}.\text{plext})*F^{-4} \\
& * \sin^2 - 8/9*HH1b(3,3,6,\text{plext}.\text{plext})*F^{-4}\sin^4 - 7/2*HH1b(4,2,8,\text{plext}.\text{plext})*F^{-4} \\
& * \sqrt{3}^{-1}\sin^2\cos^2 - 1/4*HH1b(4,2,8,\text{plext}.\text{plext})*F^{-4} + 1/2*HH1b(4,2,8,\text{plext}.\text{plext})*F^{-4} \\
& * \sin^2 - 1/6*HH1b(6,3,8,\text{plext}.\text{plext})*F^{-4} + 8/9*HH1b(6,3,8,\text{plext}.\text{plext})*F^{-4} \\
& * \sin^2 - 8/9*HH1b(6,3,8,\text{plext}.\text{plext})*F^{-4}\sin^4 - 15/4*HH1b(6,8,8,\text{plext}.\text{plext})*F^{-4} \\
& * \sqrt{3}^{-1}\sin^2\cos^2 - 25/24*HH1b(6,8,8,\text{plext}.\text{plext})*F^{-4} - 7/36*HH1b(6,8,8,\text{plext}.\text{plext})*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2 + 4/9^*\text{HH1b}(6,8,8,\text{plext.plext})^*F^{-4}*\sin x^4 + \text{Hb}(2,3,4,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x - 1/3^*\text{Hb}(2,3,4,\text{plext.plext})^*F^{-4}*\sin x^2 + 5/2^*\text{Hb}(2,4,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x - 1/12^*\text{Hb}(2,4,8,\text{plext.plext})^*F^{-4} - 1/6^*\text{Hb}(2,4,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 - 1/8^*\text{Hb}(3,2,4,\text{plext.plext})^*F^{-4} + 35/12^*\text{Hb}(3,3,6,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x - 5/9^*\text{Hb}(3,3,6,\text{plext.plext})^*F^{-4} - 61/108^*\text{Hb}(3,3,6,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 + 10/27^*\text{Hb}(3,3,6,\text{plext.plext})^*F^{-4}*\sin x^4 + 1/36^*\text{Hb}(3,6,8,\text{plext.plext})^*F^{-4} \\
& 4 - 4/27^*\text{Hb}(3,6,8,\text{plext.plext})^*F^{-4}*\sin x^2 + 4/27^*\text{Hb}(3,6,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^4 + 1/8^*\text{Hb}(4,2,3,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 1/16^*\text{Hb}(4,2,3,\text{plext.plext})^*F^{-4} \\
& 4 + 1/8^*\text{Hb}(4,2,3,\text{plext.plext})^*F^{-4}*\sin x^2 - 1/8^*\text{Hb}(4,2,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 1/16^*\text{Hb}(4,2,8,\text{plext.plext})^*F^{-4} - 1/8^*\text{Hb}(4,2,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 - 15/16^*\text{Hb}(6,3,3,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 3/16^*\text{Hb}(6,3,3,\text{plext.plext})^*F^{-4} \\
& 4 + 11/48^*\text{Hb}(6,3,3,\text{plext.plext})^*F^{-4}*\sin x^2 - 1/6^*\text{Hb}(6,3,3,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^4 + 1/16^*\text{Hb}(6,3,8,\text{plext.plext})^*F^{-4} - 1/3^*\text{Hb}(6,3,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 + 1/3^*\text{Hb}(6,3,8,\text{plext.plext})^*F^{-4}*\sin x^4 + 85/48^*\text{Hb}(6,8,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 13/24^*\text{Hb}(6,8,8,\text{plext.plext})^*F^{-4} + 53/432^*\text{Hb}(6,8,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 - 13/54^*\text{Hb}(6,8,8,\text{plext.plext})^*F^{-4}*\sin x^4 + 1/2^*\text{Hb}(7,6,6,\text{plext.plext})^*F^{-4} \\
& 4 - 1/8^*\text{Hb}(8,2,4,\text{plext.plext})^*F^{-4} + 3/4^*\text{H21b}(1,2,6,\text{plext.plext})^*F^{-4} - \\
& 27/16^*\text{H21b}(2,3,4,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 15/32^*\text{H21b}(2,3,4,\text{plext.plext})^*F^{-4} \\
& 4 - 3/16^*\text{H21b}(2,3,4,\text{plext.plext})^*F^{-4}*\sin x^2 + 27/16^*\text{H21b}(2,4,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 9/32^*\text{H21b}(2,4,8,\text{plext.plext})^*F^{-4} + 3/16^*\text{H21b}(2,4,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 + 45/16^*\text{H21b}(3,2,4,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + \\
& 15/32^*\text{H21b}(3,2,4,\text{plext.plext})^*F^{-4} - 3/16^*\text{H21b}(3,2,4,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 - 9/8^*\text{H21b}(4,2,3,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 3/16^*\text{H21b}(4,2,3,\text{plext.plext})^*F^{-4} \\
& 4 + 3/8^*\text{H21b}(4,2,3,\text{plext.plext})^*F^{-4}*\sin x^2 + 9/8^*\text{H21b}(4,2,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 9/16^*\text{H21b}(4,2,8,\text{plext.plext})^*F^{-4} - 3/8^*\text{H21b}(4,2,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 + 3/4^*\text{H21b}(5,4,6,\text{plext.plext})^*F^{-4} - 45/16^*\text{H21b}(6,3,3,\text{plext.plext})^*F^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x + 9/16^*\text{H21b}(6,3,3,\text{plext.plext})^*F^{-4} + 11/16^*\text{H21b}(6,3,3,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 - 1/2^*\text{H21b}(6,3,3,\text{plext.plext})^*F^{-4}*\sin x^4 + 3/16^*\text{H21b}(6,3,8,\text{plext.plext})^*F^{-4} \\
& 4 - \text{H21b}(6,3,8,\text{plext.plext})^*F^{-4}*\sin x^2 + \text{H21b}(6,3,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^4 + 45/16^*\text{H21b}(6,8,8,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + \\
& 3/4^*\text{H21b}(6,8,8,\text{plext.plext})^*F^{-4} + 5/16^*\text{H21b}(6,8,8,\text{plext.plext})^*F^{-4} \\
& 4^*\sin x^2 - 1/2^*\text{H21b}(8,2,4,\text{plext.plext})^*F^{-4}*\sin x^4 + 3/2^*\text{H21b}(7,6,6,\text{plext.plext})^*F^{-4} \\
& 4 - 45/16^*\text{H21b}(8,2,4,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 9/32^*\text{H21b}(8,2,4,\text{plext.plext})^*F^{-4} \\
& 4 + 3/16^*\text{H21b}(8,2,4,\text{plext.plext})^*F^{-4}*\sin x^2) \\
& + \text{mud}^2*\text{mkp2} * (- 10207/442368^*F^{-4}*\pi^{-4} - 1655/331776^*F^{-4}*\pi^{-2} \\
& 2 + 11/9^*F^{-4}*\text{L8r}*\pi^{-2} - 8/9^*F^{-4}*\text{L7r}*\pi^{-2} + 19/9^*F^{-4}*\text{L6r}*\pi^{-2} \\
& 2 - 41/54^*F^{-4}*\text{L5r}*\pi^{-2} - 384^*F^{-4}*\text{L5r}*\text{L8r} - 512^*F^{-4}*\text{L5r}*\text{L6r} + \\
& 192^*F^{-4}*\text{L5r}^2 - 19/18^*F^{-4}*\text{L4r}*\pi^{-2} - 512^*F^{-4}*\text{L4r}*\text{L8r} - 640^*F^{-4} \\
& 4^*\text{L4r}*\text{L6r} + 512^*F^{-4}*\text{L4r}*\text{L5r} + 320^*F^{-4}*\text{L4r}^2 + 10/27^*F^{-4}*\text{L3r}*\pi^{-2} \\
& + 107/72^*F^{-4}*\text{L2r}*\pi^{-2} + 3/4^*F^{-4}*\text{L1r}*\pi^{-2} + 128^*F^{-4}*\text{CC32} + \\
& 96^*F^{-4}*\text{CC31} + 240^*F^{-4}*\text{CC21} + 240^*F^{-4}*\text{CC20} + 144^*F^{-4}*\text{CC19} - \\
& 48^*F^{-4}*\text{CC17} - 112^*F^{-4}*\text{CC16} - 64^*F^{-4}*\text{CC15} - 48^*F^{-4}*\text{CC14} - 128^*F^{-4} \\
& 4^*\text{CC13} - 96^*F^{-4}*\text{CC12} + 1/54^*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 44/9^*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\text{L8r}*\pi^{-2} - 16/3^*\ln(3)^*F^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*\text{L7r}*\pi^{-2} - 4/3^*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\text{L6r}*\pi^{-2} +
\end{aligned}$$

$$\begin{aligned}
& 14/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} - 1/3*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L4r*\pi^{-2} + 11/4*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} + \\
& 4/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} + 16/3*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L1r*\pi^{-2} - 1/864*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 8/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} + 8*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x^3*\cos x*L7r*\pi^{-2} - 521/165888*\ln(3)*F^{-4}*\pi^{-4} + 26/27*\ln(3)*F^{-4} \\
& * L8r*\pi^{-2} + 7/18*\ln(3)*F^{-4}*\pi^{-4} + 2/3*\ln(3)*F^{-4}*\pi^{-4} + 26/27*\ln(3)*F^{-4} \\
& * L8r*\pi^{-2} + 7/18*\ln(3)*F^{-4}*\pi^{-4} + 2/3*\ln(3)*F^{-4}*\pi^{-4} + 26/27*\ln(3)*F^{-4} \\
& * L8r*\pi^{-2} - 5/12*\ln(3)*F^{-4}*\pi^{-4} - 11/36*\ln(3)*F^{-4}*\pi^{-4} - 4/9*\ln(3)*F^{-4} \\
& * L3r*\pi^{-2} - 7/36*\ln(3)*F^{-4}*\pi^{-4} - 7/9*\ln(3)*F^{-4}*\pi^{-4} - 145/41472*\ln(3) \\
& * F^{-4}*\sin x^2*\pi^{-4} - 8/27*\ln(3)*F^{-4}*\sin x^2*L8r*\pi^{-2} - 8/9*\ln(3) \\
& * F^{-4}*\sin x^2*L7r*\pi^{-2} + 1/3*\ln(3)*F^{-4}*\sin x^2*L4r*\pi^{-2} - 7/12*\ln(3) \\
& * F^{-4}*\sin x^2*L3r*\pi^{-2} - 1/3*\ln(3)*F^{-4}*\sin x^2*L2r*\pi^{-2} - 4/3*\ln(3) \\
& * F^{-4}*\sin x^2*L1r*\pi^{-2} + 1/2592*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} + 8/27*\ln(3) \\
& * F^{-4}*\sin x^4*L8r*\pi^{-2} + 8/9*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 247/82944*\ln(3) \\
& * F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 23/13824*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& - 1/288*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 413/663552*\ln(3)*F^{-4}*\pi^{-4} \\
& - 41/165888*\ln(3)*F^{-4}*\sin x^2*\pi^{-4} - 1/13824*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} - 1/2592*\ln(3) \\
& * F^{-4}*\sin x^6*\pi^{-4} + 1/512*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/432*\ln(3) \\
& * \ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 35/82944*\ln(3)*\ln(4)*F^{-4}*\pi^{-4} + 67/27648*\ln(3) \\
& * \ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^2*\pi^{-4} - 1/432*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} - 7/768*\ln(3) \\
& * \ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 5/1728*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& + 451/165888*\ln(3)*\ln(6)*F^{-4}*\pi^{-4} - 5/9216*\ln(3)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} \\
& + 1/576*\ln(3)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + 35/41472*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} - 47/6912*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 1/144*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 77/110592*\ln(3)*\ln(8)*F^{-4} \\
& * \pi^{-4} - 11/20736*\ln(3)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 5/20736*\ln(3)*\ln(8)*F^{-4} \\
& * \sin x^4*\pi^{-4} + 1/1296*\ln(3)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 1/864*\ln(4)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/2304*\ln(4)*F^{-4}*\pi^{-4} - 1/1152*\ln(4)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 1/1024*\ln(4)*\ln(6)*F^{-4}*\pi^{-4} - 1/512*\ln(4)*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/432*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& - 4 + 31/41472*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} - 67/27648*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} \\
& + 1/432*\ln(4)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 1/864*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} - 7/9216*\ln(6)*F^{-4}*\pi^{-4} - 6*\ln(6)*F^{-4}*\pi^{-4} - 12*\ln(6) \\
& * F^{-4}*\pi^{-4} + 3*\ln(6)*F^{-4}*\pi^{-4} + 6*\ln(6)*F^{-4}*\pi^{-4} - 15/4*\ln(6)*F^{-4} \\
& * L3r*\pi^{-2} - 21/4*\ln(6)*F^{-4}*\pi^{-2} - 15/2*\ln(6)*F^{-4}*\pi^{-2} + 1/1152*\ln(6) \\
& * F^{-4}*\sin x^2*\pi^{-4} - 3/512*\ln(6)*F^{-4}*\pi^{-4} + 7/768*\ln(6)*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 5/1728*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& + 629/165888*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} + 5/9216*\ln(6)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} \\
& - 1/576*\ln(6)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 1/54*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& + 44/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 16/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L7r*\pi^{-2} + 4/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} - 14/9*\ln(8) \\
& * F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} + 1/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} \\
& - 11/4*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} - 4/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L2r*\pi^{-2} - 16/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& + 1/864*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 8/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x^3*\cos x*L8r*\pi^{-2} - 8*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - \\
& 343/55296*\ln(8)*F^{-4}*\pi^{-4} + 13/27*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - 19/18*\ln(8)*F^{-4} \\
& *L7r*\pi^{-2} + 2/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L6r*\pi^{-2} - 5/12*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L5r*\pi^{-2} + \\
& 1/36*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L4r*\pi^{-2} - 37/36*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L3r*\pi^{-2} - 19/36*\ln(8)*F^{-4} \\
& *L2r*\pi^{-2} - 19/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L1r*\pi^{-2} + 145/41472*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + \\
& 8/27*\ln(8)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 8/9*\ln(8)*F^{-4}*\sin x^2*L7r*\pi^{-2} + \\
& 1/3*\ln(8)*F^{-4}*\sin x^2*L4r*\pi^{-2} + 7/12*\ln(8)*F^{-4}*\sin x^2*L3r*\pi^{-2} + \\
& 1/3*\ln(8)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 4/3*\ln(8)*F^{-4}*\sin x^2*L1r*\pi^{-2} - \\
& 1/2592*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 8/27*\ln(8)*F^{-4}*\sin x^4*L8r*\pi^{-2} - \\
& 8/9*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 317/82944*\ln(8)^2*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 71/13824*\ln(8)^2*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/288*\ln(8)^2*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - \\
& 673/663552*\ln(8)^2*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 43/55296*\ln(8)^2*\sqrt{3}^{-1}*\sin x^2*\pi^{-4} + \\
& 13/41472*\ln(8)^2*\sqrt{3}^{-1}*\sin x^4*\pi^{-4} - 1/2592*\ln(8)^2*\sqrt{3}^{-1}*\sin x^6*\pi^{-4}) \\
& + \text{mud}^2*\text{mkp}^2 * (+ 331/13824/(\text{mass}(3))^*\ln(3)^2*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1075/331776/(\text{mass}(3))^*\ln(3)^2*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 43/6912/(\text{mass}(3))^*\ln(3)^2*\sqrt{3}^{-1} \\
& * \sin x^2*\pi^{-4} - 5/13824/(\text{mass}(4))^*\ln(4)^2*\sqrt{3}^{-1}*\sin x^2*\pi^{-4} + 1/27648/(\text{mass}(5))^*\ln(4)^2*\sqrt{3}^{-1} \\
& * \sin x^2*\pi^{-4} - 2095/55296/(\text{mass}(6))^*\ln(6)^2*\sqrt{3}^{-1}*\sin x^2*\pi^{-4} - 307/27648/(\text{mass}(7))^*\ln(6)^2*\sqrt{3}^{-1} \\
& * \sin x^2*\pi^{-4} - 331/13824/(\text{mass}(8))^*\ln(8)^2*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 3139/331776/(\text{mass}(8))^*\ln(8)^2*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 43/6912/(\text{mass}(8))^*\ln(8)^2*\sqrt{3}^{-1} \\
& * \sin x^2*\pi^{-4}) \\
& + \text{mud}^2*\text{mpp}^2 * (- 139/110592*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 37/165888*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& * \pi^{-2} + 2/9*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} + 4/9*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} + 4/9*\sqrt{3}^{-1}*\sin x^3*\cos x*L6r*\pi^{-2} \\
& - 1/27*\sqrt{3}^{-1}*\sin x^3*\cos x*L5r*\pi^{-2} - 128*\sqrt{3}^{-1}*\sin x^3*\cos x*L6r - 2/9*\sqrt{3}^{-1}*\sin x^3*\cos x*L4r*\pi^{-2} - \\
& 128*\sqrt{3}^{-1}*\sin x^3*\cos x*L4r*L8r - 256*\sqrt{3}^{-1}*\sin x^3*\cos x*L4r*L6r + 128*\sqrt{3}^{-1}*\sin x^3*\cos x*L4r*L5r + 128*\sqrt{3}^{-1} \\
& * \sin x^3*\cos x*L4r^2 - 1/54*\sqrt{3}^{-1}*\sin x^3*\cos x*L3r*\pi^{-2} - 1/18*\sqrt{3}^{-1}*\sin x^3*\cos x*L2r*\pi^{-2} + 32*\sqrt{3}^{-1}*\sin x^3*\cos x*CC32 \\
& + 96*\sqrt{3}^{-1}*\sin x^3*\cos x*CC21 + 32*\sqrt{3}^{-1}*\sin x^3*\cos x*CC16 - 16*\sqrt{3}^{-1}*\sin x^3*\cos x*CC15 - 32*\sqrt{3}^{-1}*\sin x^3*\cos x*CC13 + \\
& 19/55296*\ln(1)*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/3456*\ln(1)*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 31/110592*\ln(1)*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 43/165888*\ln(1)*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/1024*\ln(1)*\ln(6)*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 19/55296*\ln(1)*\ln(8)*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/3456*\ln(1)*\ln(8)*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 5/110592*\ln(1)*\ln(8)*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 43/165888*\ln(1)*\ln(8)*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/10368*\ln(1)*\ln(8)*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 103/110592*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 10/9*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - \\
& \ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - \ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L6r*\pi^{-2} - 1/4*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L5r*\pi^{-2} + \\
& 7/12*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L4r*\pi^{-2} + 1/24*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L3r*\pi^{-2} + 1/6*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L2r*\pi^{-2} + \\
& 2/3*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L1r*\pi^{-2} + 1/1728*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - \\
& 20/9*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - 20/3*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L6r*\pi^{-2} - 583/663552*\ln(3)*\sqrt{3}^{-1} \\
& * \sin x^3*\cos x*L5r*\pi^{-2} - 19/54*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L4r*\pi^{-2} - 35/36*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L3r*\pi^{-2} + \\
& 1/2*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L2r*\pi^{-2} + 1/72*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L1r*\pi^{-2} - 29/72*\ln(3)*\sqrt{3}^{-1} \\
& * \sin x^3*\cos x*L4r*\pi^{-2} + 1/144*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L3r*\pi^{-2} + 1/36*\ln(3)*\sqrt{3}^{-1}*\sin x^3*\cos x*L2r*\pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& + 1/9*\ln(3)*F^{-4}*L1r*\pi^{-2} + 179/331776*\ln(3)*F^{-4}*\sinx^2*\pi^{-4} + \\
& 4/9*\ln(3)*F^{-4}*\sinx^2*L8r*\pi^{-2} + 7/6*\ln(3)*F^{-4}*\sinx^2*L7r*\pi^{-2} + \\
& 1/3*\ln(3)*F^{-4}*\sinx^2*L6r*\pi^{-2} - 1/36*\ln(3)*F^{-4}*\sinx^2*L5r*\pi^{-2} - \\
& 11/36*\ln(3)*F^{-4}*\sinx^2*L4r*\pi^{-2} + 7/72*\ln(3)*F^{-4}*\sinx^2*L3r*\pi^{-2} \\
& + 1/18*\ln(3)*F^{-4}*\sinx^2*L2r*\pi^{-2} + 2/9*\ln(3)*F^{-4}*\sinx^2*L1r*\pi^{-2} \\
& - 1/5184*\ln(3)*F^{-4}*\sinx^4*\pi^{-4} - 4/9*\ln(3)*F^{-4}*\sinx^4*L8r*\pi^{-2} \\
& - 4/3*\ln(3)*F^{-4}*\sinx^4*L7r*\pi^{-2} - 469/331776*\ln(3)^2*F^{-4}*\sqrt{3}^{-1} \\
& *sinx*cosx*\pi^{-4} + 7/27648*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*sinx^3*cosx*\pi^{-4} + \\
& 1/864*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*sinx^5*cosx*\pi^{-4} - 67/663552*\ln(3)^2*F^{-4} \\
& *\pi^{-4} + 35/331776*\ln(3)^2*F^{-4}*\sinx^2*\pi^{-4} - 25/82944*\ln(3)^2*F^{-4} \\
& *\sinx^4*\pi^{-4} + 1/2592*\ln(3)^2*F^{-4}*\sinx^6*\pi^{-4} - 35/110592*\ln(3)*\ln(4)*F^{-4} \\
& *\sqrt{3}^{-1}*sinx*cosx*\pi^{-4} + 5/3456*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*sinx^3*cosx*\pi^{-4} \\
& - 35/663552*\ln(3)*\ln(4)*F^{-4}*\pi^{-4} - 77/331776*\ln(3)*\ln(4)*F^{-4}*\sinx^2*\pi^{-4} \\
& + 7/10368*\ln(3)*\ln(4)*F^{-4}*\sinx^4*\pi^{-4} - 1/6144*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& *sinx*cosx*\pi^{-4} + 1/384*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*sinx^3*cosx*\pi^{-4} + \\
& 121/331776*\ln(3)*\ln(6)*F^{-4}*\pi^{-4} - 49/165888*\ln(3)*\ln(6)*F^{-4}*\sinx^2*\pi^{-4} \\
& + 1/10368*\ln(3)*\ln(6)*F^{-4}*\sinx^4*\pi^{-4} - 7/82944*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& *sinx*cosx*\pi^{-4} + 11/4608*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*sinx^3*cosx*\pi^{-4} - \\
& 1/432*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*sinx^5*cosx*\pi^{-4} - 11/27648*\ln(3)*\ln(8)*F^{-4} \\
& *\pi^{-4} - 17/41472*\ln(3)*\ln(8)*F^{-4}*\sinx^2*\pi^{-4} + 49/41472*\ln(3)*\ln(8)*F^{-4} \\
& *\sinx^4*\pi^{-4} - 1/1296*\ln(3)*\ln(8)*F^{-4}*\sinx^6*\pi^{-4} + 1/1536*\ln(4)*F^{-4} \\
& *\sqrt{3}^{-1}*sinx*cosx*\pi^{-4} - 5/27648*\ln(4)*F^{-4}*\pi^{-4} + 5/13824*\ln(4)*F^{-4} \\
& *\sinx^2*\pi^{-4} + 35/110592*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*sinx*cosx*\pi^{-4} - \\
& 5/3456*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*sinx^3*cosx*\pi^{-4} + 35/663552*\ln(4)*\ln(8)*F^{-4} \\
& *\pi^{-4} + 77/331776*\ln(4)*\ln(8)*F^{-4}*\sinx^2*\pi^{-4} - 7/10368*\ln(4)*\ln(8)*F^{-4} \\
& *\sinx^4*\pi^{-4} - 1/1536*\ln(6)*F^{-4}*\sqrt{3}^{-1}*sinx*cosx*\pi^{-4} - 11/13824*\ln(6)*F^{-4} \\
& *\pi^{-4} - 5/13824*\ln(6)*F^{-4}*\sinx^2*\pi^{-4} + 1/6144*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& *sinx*cosx*\pi^{-4} - 1/384*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*sinx^3*cosx*\pi^{-4} - \\
& 121/331776*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} + 49/165888*\ln(6)*\ln(8)*F^{-4}*\sinx^2*\pi^{-4} \\
& - 1/10368*\ln(6)*\ln(8)*F^{-4}*\sinx^4*\pi^{-4} + 103/110592*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& *sinx*cosx*\pi^{-4} - 10/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*sinx*cosx*L8r*\pi^{-2} - 11/6*\ln(8)*F^{-4} \\
& *\sqrt{3}^{-1}*sinx*cosx*L7r*\pi^{-2} + \ln(8)*F^{-4}*\sqrt{3}^{-1}*sinx*cosx*L6r*\pi^{-2} \\
& + 1/4*\ln(8)*F^{-4}*\sqrt{3}^{-1}*sinx*cosx*L5r*\pi^{-2} - 7/12*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& *sinx*cosx*L4r*\pi^{-2} - 1/24*\ln(8)*F^{-4}*\sqrt{3}^{-1}*sinx*cosx*L3r*\pi^{-2} \\
& - 1/6*\ln(8)*F^{-4}*\sqrt{3}^{-1}*sinx*cosx*L2r*\pi^{-2} - 2/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& *sinx*cosx*L1r*\pi^{-2} - 1/1728*\ln(8)*F^{-4}*\sqrt{3}^{-1}*sinx^3*cosx*\pi^{-4} + \\
& 20/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*sinx^3*cosx*L8r*\pi^{-2} + 20/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& *sinx^3*cosx*L7r*\pi^{-2} - 385/663552*\ln(8)*F^{-4}*\pi^{-4} + 7/54*\ln(8)*F^{-4} \\
& *L8r*\pi^{-2} + 11/36*\ln(8)*F^{-4}*\pi^{-4} + 5/6*\ln(8)*F^{-4}*\pi^{-4} + 7/54*\ln(8)*F^{-4} \\
& *L8r*\pi^{-2} + 17/24*\ln(8)*F^{-4}*\pi^{-4} + 5/48*\ln(8)*F^{-4} \\
& *L3r*\pi^{-2} + 1/12*\ln(8)*F^{-4}*\pi^{-4} + 1/3*\ln(8)*F^{-4}*\pi^{-4} - \\
& 179/331776*\ln(8)*F^{-4}*\sinx^2*\pi^{-4} - 4/9*\ln(8)*F^{-4}*\sinx^2*L8r*\pi^{-2} \\
& - 7/6*\ln(8)*F^{-4}*\sinx^2*L7r*\pi^{-2} - 1/3*\ln(8)*F^{-4}*\sinx^2*L6r*\pi^{-2} + \\
& 1/36*\ln(8)*F^{-4}*\sinx^2*L5r*\pi^{-2} + 11/36*\ln(8)*F^{-4}*\sinx^2*L4r*\pi^{-2} \\
& - 7/72*\ln(8)*F^{-4}*\sinx^2*L3r*\pi^{-2} - 1/18*\ln(8)*F^{-4}*\sinx^2*L2r*\pi^{-2} \\
& - 2/9*\ln(8)*F^{-4}*\sinx^2*L1r*\pi^{-2} + 1/5184*\ln(8)*F^{-4}*\sinx^4*\pi^{-4} +
\end{aligned}$$

$$\begin{aligned}
& 4/9*\ln(8)*F^{-4}*\sin x^4*L8r*\pi^{-2} + 4/3*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} + \\
& 497/331776*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 73/27648*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/864*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - \\
& 4 - 149/663552*\ln(8)^2*F^{-4}*\pi^{-4} + 101/331776*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} - \\
& 73/82944*\ln(8)^2*F^{-4}*\sin x^4*\pi^{-4} + 1/2592*\ln(8)^2*F^{-4}*\sin x^6*\pi^{-4}) \\
& + \text{mud}^2*\text{mpp}2*\text{mkp}2 * (- 1/288/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 4 - 17/82944/(\text{mass}(3))*\ln(3)^2*F^{-4}*\pi^{-4} + 43/27648/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 103/55296/(\text{mass}(6))*\ln(6)^2*F^{-4}*\pi^{-4} + 11/27648/(\text{mass}(7))*\ln(6)^2*F^{-4}*\pi^{-4} + \\
& 1/288/(\text{mass}(8))*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 7/5184/(\text{mass}(8))*\ln(8)^2*F^{-4}*\pi^{-4} - 43/27648/(\text{mass}(8))*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4}) \\
& + \text{mud}^2*\text{mpp}2^2 * (+ 1/27648/(\text{mass}(1))*\ln(1)^2*F^{-4}*\pi^{-4} - 5/13824/(\text{mass}(2))*\ln(1)^2*F^{-4}*\pi^{-4} + 563/221184/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 247/442368/(\text{mass}(3))*\ln(3)^2*F^{-4}*\pi^{-4} + 65/663552/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} + 1/27648/(\text{mass}(6))*\ln(6)^2*F^{-4}*\pi^{-4} - 1/27648/(\text{mass}(7))*\ln(6)^2*F^{-4}*\pi^{-4} - \\
& 563/221184/(\text{mass}(8))*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 611/1327104/(\text{mass}(8))*\ln(8)^2*F^{-4}*\pi^{-4} - 65/663552/(\text{mass}(8))*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4}) \\
& + \text{mud}^3 * (+ 3217/442368*F^{-4}*\pi^{-4} + 527/331776*F^{-4}*\pi^{-2} - 1/3*F^{-4}*\pi^{-2} + 4/9*F^{-4}*\pi^{-2} + 4/9*F^{-4}*\pi^{-2} - 5/9*F^{-4}*\pi^{-2} + 13/54*F^{-4}*\pi^{-2} + \\
& 4*L5r*\pi^{-2} + 128*F^{-4}*L5r*L8r + 128*F^{-4}*L5r*L6r - 64*F^{-4}*L5r^2 + \\
& 5/18*F^{-4}*L4r*\pi^{-2} + 128*F^{-4}*L4r*L8r + 128*F^{-4}*L4r*L6r - 128*F^{-4}*L4r*L5r - 64*F^{-4}*L4r^2 - 7/54*F^{-4}*L3r*\pi^{-2} - 37/72*F^{-4}*L2r*\pi^{-2} - \\
& 1/4*F^{-4}*L1r*\pi^{-2} - 32*F^{-4}*CC32 - 32*F^{-4}*CC31 - 48*F^{-4}*CC21 - 80*F^{-4}*CC20 - 48*F^{-4}*CC19 + 16*F^{-4}*CC17 + 48*F^{-4}*CC16 + 16*F^{-4}*CC15 \\
& + 16*F^{-4}*CC14 + 32*F^{-4}*CC13 + 32*F^{-4}*CC12 - 155/27648*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 10/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} \\
& + 2/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - 4/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} + 7/18*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} - \\
& 61/72*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} - 7/18*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} - 14/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + \\
& 1/5184*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 4/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - 4/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} + \\
& 175/165888*\ln(3)*F^{-4}*\pi^{-4} - 17/54*\ln(3)*F^{-4}*\pi^{-2} - 1/9*\ln(3)*F^{-4}*\pi^{-2} + 5/36*\ln(3)*F^{-4}*\pi^{-2} - 1/9*\ln(3)*F^{-4}*\pi^{-2} + \\
& 31/144*\ln(3)*F^{-4}*\pi^{-2} + 1/9*\ln(3)*F^{-4}*\pi^{-2} + 4/9*\ln(3)*F^{-4}*\pi^{-2} + 145/248832*\ln(3)*F^{-4}*\sin x^2*\pi^{-4} + 4/81*\ln(3)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 4/27*\ln(3)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 1/18*\ln(3)*F^{-4}*\sin x^2*L4r*\pi^{-2} + 7/72*\ln(3)*F^{-4}*\sin x^2*L3r*\pi^{-2} + 1/18*\ln(3)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 2/9*\ln(3)*F^{-4}*\sin x^2*L1r*\pi^{-2} - 1/15552*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} - 4/81*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 4/27*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 121/110592*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 23/82944*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/1728*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 119/663552*\ln(3)^2*F^{-4}*\pi^{-4} + 41/995328*\ln(3)^2*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2*\pi^{-4} + 1/82944*\ln(3)^2*\text{F}^{-4}*\sin x^4*\pi^{-4} + 1/15552*\ln(3)^2*\text{F}^{-4} \\
& 4^*\sin x^6*\pi^{-4} - 35/165888*\ln(3)*\ln(4)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 1/2592*\ln(3)*\ln(4)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 35/331776*\ln(3)*\ln(4)*\text{F}^{-4} \\
& 4^*\pi^{-4} - 67/165888*\ln(3)*\ln(4)*\text{F}^{-4}*\sin x^2*\pi^{-4} + 1/2592*\ln(3)*\ln(4)*\text{F}^{-4} \\
& 4^*\sin x^4*\pi^{-4} + 503/165888*\ln(3)*\ln(6)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 5/10368*\ln(3)*\ln(6)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 335/331776*\ln(3)*\ln(6)*\text{F}^{-4} \\
& 4^*\pi^{-4} + 5/55296*\ln(3)*\ln(6)*\text{F}^{-4}*\sin x^2*\pi^{-4} - 1/3456*\ln(3)*\ln(6)*\text{F}^{-4} \\
& 4^*\sin x^4*\pi^{-4} - 5/27648*\ln(3)*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 47/41472*\ln(3)*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/864*\ln(3)*\ln(8)*\text{F}^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 59/165888*\ln(3)*\ln(8)*\text{F}^{-4}*\pi^{-4} + 11/124416*\ln(3)*\ln(8)*\text{F}^{-4} \\
& 4^*\sin x^2*\pi^{-4} + 5/124416*\ln(3)*\ln(8)*\text{F}^{-4}*\sin x^4*\pi^{-4} - 1/7776*\ln(3)*\ln(8)*\text{F}^{-4} \\
& 4^*\sin x^6*\pi^{-4} + 1/6912*\ln(4)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/13824*\ln(4)*\text{F}^{-4} \\
& 4^*\pi^{-4} + 1/6912*\ln(4)*\text{F}^{-4}*\sin x^2*\pi^{-4} + 35/165888*\ln(4)*\ln(8)*\text{F}^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/2592*\ln(4)*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& - 35/331776*\ln(4)*\ln(8)*\text{F}^{-4}*\pi^{-4} + 67/165888*\ln(4)*\ln(8)*\text{F}^{-4}*\sin x^2*\pi^{-4} \\
& - 1/2592*\ln(4)*\ln(8)*\text{F}^{-4}*\sin x^4*\pi^{-4} - 1/6912*\ln(6)*\text{F}^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*\pi^{-4} - 1/6912*\ln(6)*\text{F}^{-4}*\pi^{-4} + 2*\ln(6)*\text{F}^{-4}*\text{L}8r*\pi^{-2} + \\
& 4*\ln(6)*\text{F}^{-4}*\text{L}6r*\pi^{-2} - \ln(6)*\text{F}^{-4}*\text{L}5r*\pi^{-2} - 2*\ln(6)*\text{F}^{-4}*\text{L}4r*\pi^{-2} \\
& + 5/4*\ln(6)*\text{F}^{-4}*\text{L}3r*\pi^{-2} + 7/4*\ln(6)*\text{F}^{-4}*\text{L}2r*\pi^{-2} + 5/2*\ln(6)*\text{F}^{-4} \\
& 4^*\text{L}1r*\pi^{-2} - 1/6912*\ln(6)*\text{F}^{-4}*\sin x^2*\pi^{-4} + 1/512*\ln(6)^2*\text{F}^{-4}*\pi^{-4} - \\
& 503/165888*\ln(6)*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 5/10368*\ln(6)*\ln(8)*\text{F}^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 385/331776*\ln(6)*\ln(8)*\text{F}^{-4}*\pi^{-4} - 5/55296*\ln(6)*\ln(8)*\text{F}^{-4} \\
& 4^*\sin x^2*\pi^{-4} + 1/3456*\ln(6)*\ln(8)*\text{F}^{-4}*\sin x^4*\pi^{-4} + 155/27648*\ln(8)*\text{F}^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 10/9*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\text{L}8r*\pi^{-2} \\
& - 2/3*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\text{L}7r*\pi^{-2} + 4/9*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*\text{L}5r*\pi^{-2} - 7/18*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\text{L}4r*\pi^{-2} + \\
& 61/72*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\text{L}3r*\pi^{-2} + 7/18*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x*\cos x*\text{L}2r*\pi^{-2} + 14/9*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\text{L}1r*\pi^{-2} - \\
& 1/5184*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 4/9*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1} \\
& 1^*\sin x^3*\cos x*\text{L}8r*\pi^{-2} + 4/3*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\text{L}7r*\pi^{-2} \\
& + 29/18432*\ln(8)*\text{F}^{-4}*\pi^{-4} - 13/54*\ln(8)*\text{F}^{-4}*\text{L}8r*\pi^{-2} + 1/9*\ln(8)*\text{F}^{-4} \\
& 4^*\text{L}7r*\pi^{-2} + 5/36*\ln(8)*\text{F}^{-4}*\text{L}5r*\pi^{-2} - 1/6*\ln(8)*\text{F}^{-4}*\text{L}4r*\pi^{-2} + \\
& 5/16*\ln(8)*\text{F}^{-4}*\text{L}3r*\pi^{-2} + 1/6*\ln(8)*\text{F}^{-4}*\text{L}2r*\pi^{-2} + 2/3*\ln(8)*\text{F}^{-4} \\
& 4^*\text{L}1r*\pi^{-2} - 145/248832*\ln(8)*\text{F}^{-4}*\sin x^2*\pi^{-4} - 4/81*\ln(8)*\text{F}^{-4} \\
& 4^*\sin x^2*\text{L}8r*\pi^{-2} - 4/27*\ln(8)*\text{F}^{-4}*\sin x^2*\text{L}7r*\pi^{-2} + 1/18*\ln(8)*\text{F}^{-4} \\
& 4^*\sin x^2*\text{L}4r*\pi^{-2} - 7/72*\ln(8)*\text{F}^{-4}*\sin x^2*\text{L}3r*\pi^{-2} - 1/18*\ln(8)*\text{F}^{-4} \\
& 4^*\sin x^2*\text{L}2r*\pi^{-2} - 2/9*\ln(8)*\text{F}^{-4}*\sin x^2*\text{L}1r*\pi^{-2} + 1/15552*\ln(8)*\text{F}^{-4} \\
& 4^*\sin x^4*\pi^{-4} + 4/81*\ln(8)*\text{F}^{-4}*\sin x^4*\text{L}8r*\pi^{-2} + 4/27*\ln(8)*\text{F}^{-4} \\
& 4^*\sin x^4*\text{L}7r*\pi^{-2} + 47/36864*\ln(8)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& - 71/82944*\ln(8)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/1728*\ln(8)^2*\text{F}^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 55/221184*\ln(8)^2*\text{F}^{-4}*\pi^{-4} - 43/331776*\ln(8)^2*\text{F}^{-4} \\
& 4^*\sin x^2*\pi^{-4} - 13/248832*\ln(8)^2*\text{F}^{-4}*\sin x^4*\pi^{-4} + 1/15552*\ln(8)^2*\text{F}^{-4} \\
& 4^*\sin x^6*\pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}^3*\text{mkp}2 * (- 565/41472/(\text{mass}(3))*\ln(3)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& - 4 + 55/20736/(\text{mass}(3))*\ln(3)^2*\text{F}^{-4}*\pi^{-4} + 43/20736/(\text{mass}(3))*\ln(3)^2*\text{F}^{-4}
\end{aligned}$$

$$4*\sin x^2*\pi^{-4} + 455/18432/(\text{mass}(6))*\ln(6)^2*\text{F}^{-4}*\pi^{-4} + 23/3072/(\text{mass}(7))*\ln(6)^2*\text{F}^{-4}*\pi^{-4} + 565/41472/(\text{mass}(8))*\ln(8)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 49/10368/(\text{mass}(8))*\ln(8)^2*\text{F}^{-4}*\pi^{-4} - 43/20736/(\text{mass}(8))*\ln(8)^2*\text{F}^{-4}*\sin x^2*\pi^{-4})$$

$$+ \text{mud}^3*\text{mpp}2 * (- 13/55296/(\text{mass}(3))*\ln(3)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 4 + 37/110592/(\text{mass}(3))*\ln(3)^2*\text{F}^{-4}*\pi^{-4} - 43/165888/(\text{mass}(3))*\ln(3)^2*\text{F}^{-4}*\sin x^2*\pi^{-4} + 11/18432/(\text{mass}(6))*\ln(6)^2*\text{F}^{-4}*\pi^{-4} - 1/9216/(\text{mass}(7))*\ln(6)^2*\text{F}^{-4}*\pi^{-4} + 13/55296/(\text{mass}(8))*\ln(8)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 25/331776/(\text{mass}(8))*\ln(8)^2*\text{F}^{-4}*\pi^{-4} + 43/165888/(\text{mass}(8))*\ln(8)^2*\text{F}^{-4}*\sin x^2*\pi^{-4})$$

$$+ \text{mud}^4 * (+ 19/6144/(\text{mass}(3))*\ln(3)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 41/55296/(\text{mass}(3))*\ln(3)^2*\text{F}^{-4}*\pi^{-4} - 43/165888/(\text{mass}(3))*\ln(3)^2*\text{F}^{-4}*\sin x^2*\pi^{-4} - 37/6144/(\text{mass}(6))*\ln(6)^2*\text{F}^{-4}*\pi^{-4} - 35/18432/(\text{mass}(7))*\ln(6)^2*\text{F}^{-4}*\pi^{-4} - 19/6144/(\text{mass}(8))*\ln(8)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 83/82944/(\text{mass}(8))*\ln(8)^2*\text{F}^{-4}*\pi^{-4} + 43/165888/(\text{mass}(8))*\ln(8)^2*\text{F}^{-4}*\sin x^2*\pi^{-4});$$

eta: Mass688 =

$$+ \text{mkp}2^2 * (+ 32/9*\text{HH}1\text{b}(1,2,3,\text{plext.plext})*\text{F}^{-4}*\sin x^2 - 32/9*\text{HH}1\text{b}(1,2,3,\text{plext.plext})*\text{F}^{-4}*\sin x^4 - 32/9*\text{HH}1\text{b}(1,2,8,\text{plext.plext})*\text{F}^{-4}*\sin x^2 + 32/9*\text{HH}1\text{b}(1,2,8,\text{plext.plext})*\text{F}^{-4}*\sin x^4 - 8/3*\text{HH}1\text{b}(1,5,6,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 32/9*\text{HH}1\text{b}(2,1,3,\text{plext.plext})*\text{F}^{-4}*\sin x^2 - 32/9*\text{HH}1\text{b}(2,1,3,\text{plext.plext})*\text{F}^{-4}*\sin x^4 - 32/9*\text{HH}1\text{b}(2,1,8,\text{plext.plext})*\text{F}^{-4}*\sin x^2 + 32/9*\text{HH}1\text{b}(2,1,8,\text{plext.plext})*\text{F}^{-4}*\sin x^4 - 8/3*\text{HH}1\text{b}(2,4,7,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 20/9*\text{HH}1\text{b}(3,4,5,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 16/9*\text{HH}1\text{b}(3,4,5,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x - 16/9*\text{HH}1\text{b}(3,4,5,\text{plext.plext})*\text{F}^{-4}*\sin x^2 + 16/9*\text{HH}1\text{b}(3,4,5,\text{plext.plext})*\text{F}^{-4}*\sin x^4 + 20/9*\text{HH}1\text{b}(3,6,7,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 16/9*\text{HH}1\text{b}(3,6,7,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x - 16/9*\text{HH}1\text{b}(3,6,7,\text{plext.plext})*\text{F}^{-4}*\sin x^2 + 16/9*\text{HH}1\text{b}(3,6,7,\text{plext.plext})*\text{F}^{-4}*\sin x^4 - 16/3*\text{HH}1\text{b}(4,2,7,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 68/9*\text{HH}1\text{b}(4,5,8,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 16/9*\text{HH}1\text{b}(4,5,8,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x + 16/3*\text{HH}1\text{b}(4,5,8,\text{plext.plext})*\text{F}^{-4} - 64/9*\text{HH}1\text{b}(4,5,8,\text{plext.plext})*\text{F}^{-4}*\sin x^2 + 16/9*\text{HH}1\text{b}(4,5,8,\text{plext.plext})*\text{F}^{-4}*\sin x^4 - 16/9*\text{HH}1\text{b}(5,1,6,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 68/9*\text{HH}1\text{b}(5,4,8,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 16/9*\text{HH}1\text{b}(5,4,8,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x + 16/3*\text{HH}1\text{b}(5,4,8,\text{plext.plext})*\text{F}^{-4} - 64/9*\text{HH}1\text{b}(5,4,8,\text{plext.plext})*\text{F}^{-4}*\sin x^2 + 16/9*\text{HH}1\text{b}(5,4,8,\text{plext.plext})*\text{F}^{-4}*\sin x^4 + 68/9*\text{HH}1\text{b}(6,7,8,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 16/9*\text{HH}1\text{b}(6,7,8,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x + 16/3*\text{HH}1\text{b}(6,7,8,\text{plext.plext})*\text{F}^{-4} - 64/9*\text{HH}1\text{b}(6,7,8,\text{plext.plext})*\text{F}^{-4}*\sin x^2 + 16/9*\text{HH}1\text{b}(6,7,8,\text{plext.plext})*\text{F}^{-4}*\sin x^4 + 68/9*\text{HH}1\text{b}(7,6,8,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 16/9*\text{HH}1\text{b}(7,6,8,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x + 16/3*\text{HH}1\text{b}(7,6,8,\text{plext.plext})*\text{F}^{-4} - 64/9*\text{HH}1\text{b}(7,6,8,\text{plext.plext})*\text{F}^{-4}*\sin x^2 + 16/9*\text{HH}1\text{b}(7,6,8,\text{plext.plext})*\text{F}^{-4}*\sin x^4 - 16/9*\text{Hb}(1,2,3,\text{plext.plext})*\text{F}^{-4}*\sin x^2 + 16/9*\text{Hb}(1,2,3,\text{plext.plext})*\text{F}^{-4}*\sin x^4 + 16/9*\text{Hb}(1,2,8,\text{plext.plext})*\text{F}^{-4}*\sin x^2 - 16/9*\text{Hb}(1,2,8,\text{plext.plext})*\text{F}^{-4}*\sin x^4 + 8/3*\text{Hb}(1,5,6,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 8/3*\text{Hb}(2,4,7,\text{plext.plext})*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 4/9*\text{Hb}(3,1,2,\text{plext.plext})*\text{F}^{-4}*\sin x^2 - 4/9*\text{Hb}(3,1,2,\text{plext.plext})*\text{F}^{-4}*\sin x^4$$

$$\begin{aligned}
& 4^*\sin x^4 + 64/243^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4}*\sin x^2 - 64/27^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4}*\sin x^4 + 1024/243^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4}*\sin x^6 - 512/243^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4}*\sin x^8 + 512/81^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{-4}*\sin x^4 - 1024/81^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{-4}*\sin x^6 + 512/81^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{-4}*\sin x^8 - 1/9^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 2/9^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x + 2/27^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4}*\sin x^2 - 2/27^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4}*\sin x^4 + 1/9^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 2/9^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x + 2/27^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}*\sin x^2 - 2/27^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}*\sin x^4 + 64/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}*\sin x^2 - 64/9^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}*\sin x^4 + 1024/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}*\sin x^6 - 512/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}*\sin x^8 + 1/2^*\text{Hb}(4,2,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 64/9^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 8/3^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x - 32/9^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4} + 136/27^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}*\sin x^2 - 40/27^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}*\sin x^4 + 1/2^*\text{Hb}(5,1,6,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 1/2^*\text{Hb}(6,1,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 64/9^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 8/3^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x - 32/9^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4} + 136/27^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}*\sin x^2 - 40/27^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}*\sin x^4 - 1/2^*\text{Hb}(7,2,4,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 4/9^*\text{Hb}(8,1,2,\text{plext.plext})^*F^{-4}*\sin x^2 + 4/9^*\text{Hb}(8,1,2,\text{plext.plext})^*F^{-4}*\sin x^4 - 7/3^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 2/3^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x + \text{Hb}(8,4,5,\text{plext.plext})^*F^{-4} - 7/9^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}*\sin x^2 - 2/9^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}*\sin x^4 + 7/3^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 2/3^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x + \text{Hb}(8,6,7,\text{plext.plext})^*F^{-4} - 7/9^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}*\sin x^2 - 2/9^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}*\sin x^4 + 128/243^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4} - 128/81^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4}*\sin x^2 + 256/81^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4}*\sin x^4 - 1024/243^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4}*\sin x^6 + 512/243^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4}*\sin x^8 + 2^*\text{H21b}(1,5,6,\text{plext.plext})^*F^{-4} - 2^*\text{H21b}(1,5,6,\text{plext.plext})^*F^{-4}*\sin x^2 + 2^*\text{H21b}(2,4,7,\text{plext.plext})^*F^{-4} - 2^*\text{H21b}(2,4,7,\text{plext.plext})^*F^{-4}*\sin x^2 + 4/3^*\text{H21b}(3,1,2,\text{plext.plext})^*F^{-4}*\sin x^2 - 4/3^*\text{H21b}(3,1,2,\text{plext.plext})^*F^{-4}*\sin x^4 + 3^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 2^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x + \text{H21b}(3,4,5,\text{plext.plext})^*F^{-4} - 5/3^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4}*\sin x^2 + 2/3^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4}*\sin x^4 - 3^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 2^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x + \text{H21b}(3,6,7,\text{plext.plext})^*F^{-4} - 5/3^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4}*\sin x^2 + 2/3^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4}*\sin x^4 + 2^*\text{H21b}(4,2,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 2^*\text{H21b}(5,1,6,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 2^*\text{H21b}(6,1,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 2^*\text{H21b}(7,2,4,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 4/3^*\text{H21b}(8,1,2,\text{plext.plext})^*F^{-4}*\sin x^2 + 4/3^*\text{H21b}(8,1,2,\text{plext.plext})^*F^{-4}*\sin x^4 - 7^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x + 2^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x + 3^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4} - 7/3^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4}*\sin x^2 - 2/3^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4}*\sin x^4 + 7^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 2^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x + 3^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4} - 7/3^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4}*\sin x^2 - 2/3^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4}*\sin x^4)
\end{aligned}$$

$$\begin{aligned}
& + \text{mkp}2^3 * (- 7567/248832 * F^{-4} \pi^{-4} - 1091/186624 * F^{-4} \pi^{-2} - \\
& 28/27 * F^{-4} L8r \pi^{-2} - 64/27 * F^{-4} L7r \pi^{-2} + 8/27 * F^{-4} L6r \pi^{-2} - \\
& + 10/81 * F^{-4} L5r \pi^{-2} - 4096/9 * F^{-4} L5r L8r - 4096/9 * F^{-4} L5r L7r \\
& - 4096/9 * F^{-4} L5r L6r + 4096/27 * F^{-4} L5r^2 - 4/27 * F^{-4} L4r \pi^{-2} - \\
& 2048/3 * F^{-4} L4r L8r - 2048/3 * F^{-4} L4r L7r - 2048/3 * F^{-4} L4r L6r + \\
& 4096/9 * F^{-4} L4r L5r + 1024/3 * F^{-4} L4r^2 + 19/54 * F^{-4} L3r \pi^{-2} + \\
& 34/27 * F^{-4} L2r \pi^{-2} + 16/27 * F^{-4} L1r \pi^{-2} + 512/3 * F^{-4} CC33 + \\
& 512/3 * F^{-4} CC32 + 512/3 * F^{-4} CC31 + 256 * F^{-4} CC21 + 256 * F^{-4} CC20 \\
& + 256 * F^{-4} CC19 - 512/9 * F^{-4} CC18 - 512/9 * F^{-4} CC17 - 256/3 * F^{-4} \\
& 4 * CC16 - 512/9 * F^{-4} CC15 - 512/9 * F^{-4} CC14 - 1024/9 * F^{-4} CC13 - \\
& 4096/27 * F^{-4} CC12 + 7567/248832 * F^{-4} \sin^2 \pi^{-4} + 1091/186624 * F^{-4} \\
& 4 * \sin^2 \pi^{-2} + 28/27 * F^{-4} \sin^2 L8r \pi^{-2} + 64/27 * F^{-4} \sin^2 L7r \pi^{-2} - \\
& 8/27 * F^{-4} \sin^2 L6r \pi^{-2} - 10/81 * F^{-4} \sin^2 L5r \pi^{-2} + 4096/9 * F^{-4} \\
& 4 * \sin^2 L5r L8r + 4096/9 * F^{-4} \sin^2 L5r L7r + 4096/9 * F^{-4} \sin^2 L5r L6r \\
& - 4096/27 * F^{-4} \sin^2 L5r^2 + 4/27 * F^{-4} \sin^2 L4r \pi^{-2} + 2048/3 * F^{-4} \\
& 4 * \sin^2 L4r L8r + 2048/3 * F^{-4} \sin^2 L4r L7r + 2048/3 * F^{-4} \sin^2 L4r L6r \\
& - 4096/9 * F^{-4} \sin^2 L4r L5r - 1024/3 * F^{-4} \sin^2 L4r^2 - 19/54 * F^{-4} \\
& 4 * \sin^2 L3r \pi^{-2} - 34/27 * F^{-4} \sin^2 L2r \pi^{-2} - 16/27 * F^{-4} \sin^2 L1r \pi^{-2} - \\
& 2 - 512/3 * F^{-4} \sin^2 CC33 - 512/3 * F^{-4} \sin^2 CC32 - 512/3 * F^{-4} \\
& 4 * \sin^2 CC31 - 256 * F^{-4} \sin^2 CC21 - 256 * F^{-4} \sin^2 CC20 - 256 * F^{-4} \\
& 4 * \sin^2 CC19 + 512/9 * F^{-4} \sin^2 CC18 + 512/9 * F^{-4} \sin^2 CC17 \\
& + 256/3 * F^{-4} \sin^2 CC16 + 512/9 * F^{-4} \sin^2 CC15 + 512/9 * F^{-4} \\
& 4 * \sin^2 CC14 + 1024/9 * F^{-4} \sin^2 CC13 + 2048/27 * F^{-4} \sin^2 CC12 \\
& - 1/243 * \ln(3) * F^{-4} \sin^2 \pi^{-4} - 832/81 * \ln(3) * F^{-4} \sin^2 L8r \pi^{-2} - \\
& 512/27 * \ln(3) * F^{-4} \sin^2 L7r \pi^{-2} - 128/27 * \ln(3) * F^{-4} \sin^2 L6r \pi^{-2} \\
& + 160/81 * \ln(3) * F^{-4} \sin^2 L5r \pi^{-2} + 32/9 * \ln(3) * F^{-4} \sin^2 L4r \pi^{-2} \\
& + 1/243 * \ln(3) * F^{-4} \sin^4 \pi^{-4} + 448/27 * \ln(3) * F^{-4} \sin^4 L8r \pi^{-2} + \\
& 1024/27 * \ln(3) * F^{-4} \sin^4 L7r \pi^{-2} + 128/27 * \ln(3) * F^{-4} \sin^4 L6r \pi^{-2} \\
& - 160/81 * \ln(3) * F^{-4} \sin^4 L5r \pi^{-2} - 32/9 * \ln(3) * F^{-4} \sin^4 L4r \pi^{-2} - \\
& 512/81 * \ln(3) * F^{-4} \sin^6 L8r \pi^{-2} - 512/27 * \ln(3) * F^{-4} \sin^6 L7r \pi^{-2} \\
& + 11/3888 * \ln(3)^2 * F^{-4} \sin^2 \pi^{-4} + 7/3888 * \ln(3)^2 * F^{-4} \sin^4 \pi^{-4} \\
& - 25/1944 * \ln(3)^2 * F^{-4} \sin^6 \pi^{-4} + 2/243 * \ln(3)^2 * F^{-4} \sin^8 \pi^{-4} - \\
& 91/10368 * \ln(3) * \ln(4) * F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 \pi^{-4} + 31/1296 * \ln(3) * \ln(4) * F^{-4} \\
& 4 * \sqrt{3}^{-1} \sin^3 \cos^2 \pi^{-4} - 1/54 * \ln(3) * \ln(4) * F^{-4} \sqrt{3}^{-1} \sin^5 \cos^2 \pi^{-4} \\
& - 1/144 * \ln(3) * \ln(4) * F^{-4} \sin^2 \pi^{-4} + 1/1296 * \ln(3) * \ln(4) * F^{-4} \sin^4 \pi^{-4} \\
& + 1/162 * \ln(3) * \ln(4) * F^{-4} \sin^6 \pi^{-4} + 91/10368 * \ln(3) * \ln(6) * F^{-4} \sqrt{3}^{-1} \\
& 1 * \sin^3 \cos^2 \pi^{-4} - 31/1296 * \ln(3) * \ln(6) * F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 \pi^{-4} + \\
& 1/54 * \ln(3) * \ln(6) * F^{-4} \sqrt{3}^{-1} \sin^5 \cos^2 \pi^{-4} - 1/144 * \ln(3) * \ln(6) * F^{-4} \\
& 4 * \sin^2 \pi^{-4} + 1/1296 * \ln(3) * \ln(6) * F^{-4} \sin^4 \pi^{-4} + 1/162 * \ln(3) * \ln(6) * F^{-4} \\
& 4 * \sin^6 \pi^{-4} + 11/1944 * \ln(3) * \ln(8) * F^{-4} \sin^2 \pi^{-4} - 5/216 * \ln(3) * \ln(8) * F^{-4} \\
& 4 * \sin^4 \pi^{-4} + 11/324 * \ln(3) * \ln(8) * F^{-4} \sin^6 \pi^{-4} - 4/243 * \ln(3) * \ln(8) * F^{-4} \\
& 4 * \sin^8 \pi^{-4} + 421/20736 * \ln(4) * F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 \pi^{-4} - 280/27 * \ln(4) * F^{-4} \\
& 4 * \sqrt{3}^{-1} \sin^3 \cos^2 L8r \pi^{-2} - 112/9 * \ln(4) * F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 L7r \pi^{-2} \\
& - 8 * \ln(4) * F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 L6r \pi^{-2} + 28/9 * \ln(4) * F^{-4} \sqrt{3}^{-1} \\
& 1 * \sin^3 \cos^2 L5r \pi^{-2} + 14/3 * \ln(4) * F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 L4r \pi^{-2} + \\
& 17/6 * \ln(4) * F^{-4} \sqrt{3}^{-1} \sin^3 \cos^2 L3r \pi^{-2} + 4/3 * \ln(4) * F^{-4} \sqrt{3}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x*\cos x*L2r*\pi^{-2} + 16/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - \\
& 1/162*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 128/27*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*L8r*\pi^{-2} + 128/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - \\
& 13/1728*\ln(4)*F^{-4}*\pi^{-4} - 2/3*\ln(4)*F^{-4}*L8r*\pi^{-2} - 4/3*\ln(4)*F^{-4} \\
& 4*L7r*\pi^{-2} + 1/9*\ln(4)*F^{-4}*L5r*\pi^{-2} + 2/3*\ln(4)*F^{-4}*L4r*\pi^{-2} - \\
& 7/6*\ln(4)*F^{-4}*L3r*\pi^{-2} - 2/3*\ln(4)*F^{-4}*L2r*\pi^{-2} - 8/3*\ln(4)*F^{-4} \\
& 4*L1r*\pi^{-2} + 13/1728*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} + 2/3*\ln(4)*F^{-4}*\sin x^2*L8r*\pi^{-2} \\
& 2 + 4/3*\ln(4)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 1/9*\ln(4)*F^{-4}*\sin x^2*L5r*\pi^{-2} - \\
& 2/3*\ln(4)*F^{-4}*\sin x^2*L4r*\pi^{-2} + 7/6*\ln(4)*F^{-4}*\sin x^2*L3r*\pi^{-2} + \\
& 2/3*\ln(4)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 8/3*\ln(4)*F^{-4}*\sin x^2*L1r*\pi^{-2} - \\
& 65/6912*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/216*\ln(4)^2*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*\pi^{-4} + 5/2304*\ln(4)^2*F^{-4}*\pi^{-4} + 5/1728*\ln(4)^2*F^{-4} \\
& 4*\sin x^2*\pi^{-4} - 1/216*\ln(4)^2*F^{-4}*\sin x^4*\pi^{-4} - 1/2304*\ln(4)*\ln(6)*F^{-4} \\
& 4*\pi^{-4} - 67/6912*\ln(4)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} + 1/108*\ln(4)*\ln(6)*F^{-4} \\
& 4*\sin x^4*\pi^{-4} + 89/3456*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 13/432*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/54*\ln(4)*\ln(8)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 1/96*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} + 5/288*\ln(4)*\ln(8)*F^{-4} \\
& 4*\sin x^2*\pi^{-4} - 1/1296*\ln(4)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 1/162*\ln(4)*\ln(8)*F^{-4} \\
& 4*\sin x^6*\pi^{-4} - 421/20736*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 280/27*\ln(6)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 112/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} \\
& 2 + 8*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} - 28/9*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L5r*\pi^{-2} - 14/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} - \\
& 17/6*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} - 4/3*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L2r*\pi^{-2} - 16/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + \\
& 1/162*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 128/27*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*L8r*\pi^{-2} - 128/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - \\
& 13/1728*\ln(6)*F^{-4}*\pi^{-4} - 2/3*\ln(6)*F^{-4}*L8r*\pi^{-2} - 4/3*\ln(6)*F^{-4} \\
& 4*L7r*\pi^{-2} + 1/9*\ln(6)*F^{-4}*L5r*\pi^{-2} + 2/3*\ln(6)*F^{-4}*L4r*\pi^{-2} - \\
& 7/6*\ln(6)*F^{-4}*L3r*\pi^{-2} - 2/3*\ln(6)*F^{-4}*L2r*\pi^{-2} - 8/3*\ln(6)*F^{-4} \\
& 4*L1r*\pi^{-2} + 13/1728*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} + 2/3*\ln(6)*F^{-4}*\sin x^2*L8r*\pi^{-2} \\
& 2 + 4/3*\ln(6)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 1/9*\ln(6)*F^{-4}*\sin x^2*L5r*\pi^{-2} - \\
& 2/3*\ln(6)*F^{-4}*\sin x^2*L4r*\pi^{-2} + 7/6*\ln(6)*F^{-4}*\sin x^2*L3r*\pi^{-2} - \\
& + 2/3*\ln(6)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 8/3*\ln(6)*F^{-4}*\sin x^2*L1r*\pi^{-2} - \\
& + 65/6912*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/216*\ln(6)^2*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 5/2304*\ln(6)^2*F^{-4}*\pi^{-4} + 5/1728*\ln(6)^2*F^{-4} \\
& 4*\sin x^2*\pi^{-4} - 1/216*\ln(6)^2*F^{-4}*\sin x^4*\pi^{-4} - 89/3456*\ln(6)*\ln(8)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 13/432*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& 4 - 1/54*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 1/96*\ln(6)*\ln(8)*F^{-4} \\
& 4*\pi^{-4} + 5/288*\ln(6)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 1/1296*\ln(6)*\ln(8)*F^{-4} \\
& 4*\sin x^4*\pi^{-4} - 1/162*\ln(6)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} + 25/3888*\ln(8)*F^{-4} \\
& 4*\pi^{-4} - 320/27*\ln(8)*F^{-4}*L8r*\pi^{-2} - 320/27*\ln(8)*F^{-4}*L7r*\pi^{-2} - \\
& 320/27*\ln(8)*F^{-4}*L6r*\pi^{-2} + 320/81*\ln(8)*F^{-4}*L5r*\pi^{-2} + 160/27*\ln(8)*F^{-4} \\
& 4*L4r*\pi^{-2} - 16/9*\ln(8)*F^{-4}*L3r*\pi^{-2} - 32/9*\ln(8)*F^{-4}*L2r*\pi^{-2} - \\
& 32/9*\ln(8)*F^{-4}*L1r*\pi^{-2} - 1/432*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 1792/81*\ln(8)*F^{-4} \\
& 4*\sin x^2*L8r*\pi^{-2} + 832/27*\ln(8)*F^{-4}*\sin x^2*L7r*\pi^{-2} + 448/27*\ln(8)*F^{-4} \\
& 4*\sin x^2*L6r*\pi^{-2} - 160/27*\ln(8)*F^{-4}*\sin x^2*L5r*\pi^{-2} - 256/27*\ln(8)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2*L4r*\pi^{-2} + 16/9*\ln(8)*F^{-4}*\sin x^2*L3r*\pi^{-2} + 32/9*\ln(8)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 32/9*\ln(8)*F^{-4}*\sin x^2*L1r*\pi^{-2} - 1/243*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 448/27*\ln(8)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 1024/27*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 128/27*\ln(8)*F^{-4}*\sin x^4*L6r*\pi^{-2} + 160/81*\ln(8)*F^{-4}*\sin x^4*L5r*\pi^{-2} + 32/9*\ln(8)*F^{-4}*\sin x^4*L4r*\pi^{-2} + 512/81*\ln(8)*F^{-4}*\sin x^6*L8r*\pi^{-2} + 512/27*\ln(8)*F^{-4}*\sin x^6*L7r*\pi^{-2} + 1/162*\ln(8)^2*F^{-4}*\pi^{-4} - 19/1296*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} + 83/3888*\ln(8)^2*F^{-4}*\sin x^4*\pi^{-4} - 41/1944*\ln(8)^2*F^{-4}*\sin x^6*\pi^{-4} + 2/243*\ln(8)^2*F^{-4}*\sin x^8*\pi^{-4}) \\
& + \text{mkp}2^4 * (- 5/1458/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} + 5/1458/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} - 262144/81/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^2*L8r^2 - 524288/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^2*L7r*L8r - 262144/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^2*L7r^2 + 262144/81/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^4*L8r^2 + 524288/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^4*L7r*L8r + 262144/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^4*L7r^2 + 2048/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} + 2048/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 2048/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^6*L8r*\pi^{-2} - 2048/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^6*L7r*\pi^{-2} + 1/1458/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 1/1458/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} - 4/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} + 4/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^8*\pi^{-4} + 7/3888/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 4/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 2/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 2/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + 2/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sin x^6*\pi^{-4} - 7/3888/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 4/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 2/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 2/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + 2/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sin x^6*\pi^{-4} - 1/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 7/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 16/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 8/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^8*\pi^{-4} - 304/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 304/9/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 512/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} + 512/9/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} + 512/81/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 512/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 512/81/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 512/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 19/1728/(\text{mass}(3) - \text{mass}(8))*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/54/(\text{mass}(3) - \text{mass}(8))*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/432/(\text{mass}(3) - \text{mass}(8))*\ln(4)^2*F^{-4}*\pi^{-4} + 41/5184/(\text{mass}(3) - \text{mass}(8))*\ln(4)^2*F^{-4}*\sin x^2*\pi^{-4} - 1/162/(\text{mass}(3) - \text{mass}(8))*\ln(4)^2*F^{-4}*\sin x^4*\pi^{-4} + 1/216/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(6)*F^{-4}*\pi^{-4} - 73/2592/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(6)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4*\sinx^2*\pi^{\wedge-4} + 2/81/(mass(3) - mass(8))*\ln(4)*\ln(6)*F^{\wedge-4}*\sinx^4*\pi^{\wedge-4} \\
& + 25/1944/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sinx*\cosx*\pi^{\wedge-4} \\
& - 10/243/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sinx^3*\cosx*\pi^{\wedge-4} \\
& + 2/81/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sinx^5*\cosx*\pi^{\wedge-4} - \\
& 2/243/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{\wedge-4}*\sinx^2*\pi^{\wedge-4} + 4/243/(mass(3) - \\
& mass(8))*\ln(4)*\ln(8)*F^{\wedge-4}*\sinx^4*\pi^{\wedge-4} - 2/243/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{\wedge-} \\
& 4*\sinx^6*\pi^{\wedge-4} + 304/27/(mass(3) - mass(8))*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sinx*\cosx*L8r*\pi^{\wedge-} \\
& 2 + 304/9/(mass(3) - mass(8))*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sinx*\cosx*L7r*\pi^{\wedge-2} - \\
& 512/27/(mass(3) - mass(8))*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sinx^3*\cosx*L8r*\pi^{\wedge-2} - \\
& 512/9/(mass(3) - mass(8))*\ln(6)*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sinx^3*\cosx*L7r*\pi^{\wedge-2} + \\
& 512/81/(mass(3) - mass(8))*\ln(6)*F^{\wedge-4}*\sinx^2*L8r*\pi^{\wedge-2} + 512/27/(mass(3) - \\
& mass(8))*\ln(6)*F^{\wedge-4}*\sinx^2*L7r*\pi^{\wedge-2} - 512/81/(mass(3) - mass(8))*\ln(6)*F^{\wedge-} \\
& 4*\sinx^4*L8r*\pi^{\wedge-2} - 512/27/(mass(3) - mass(8))*\ln(6)*F^{\wedge-4}*\sinx^4*L7r*\pi^{\wedge-} \\
& 2 - 19/1728/(mass(3) - mass(8))*\ln(6)^2*\sqrt{3}^{\wedge-1}*\sinx*\cosx*\pi^{\wedge-4} \\
& + 1/54/(mass(3) - mass(8))*\ln(6)^2*\sqrt{3}^{\wedge-1}*\sinx^3*\cosx*\pi^{\wedge-4} \\
& - 1/432/(mass(3) - mass(8))*\ln(6)^2*\sqrt{3}^{\wedge-1}*\sinx^3*\cosx*\pi^{\wedge-4} + 41/5184/(mass(3) - \\
& mass(8))*\ln(6)^2*\sqrt{3}^{\wedge-1}*\sinx^2*\pi^{\wedge-4} - 1/162/(mass(3) - mass(8))*\ln(6)^2*\sqrt{3}^{\wedge-} \\
& 4*\sinx^4*\pi^{\wedge-4} - 25/1944/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{\wedge-4}*\sqrt{3}^{\wedge-1} \\
& *\sinx*\cosx*\pi^{\wedge-4} + 10/243/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{\wedge-4}*\sqrt{3}^{\wedge-1} \\
& *\sinx^3*\cosx*\pi^{\wedge-4} - 2/81/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{\wedge-4}*\sqrt{3}^{\wedge-1} \\
& *\sinx^5*\cosx*\pi^{\wedge-4} - 2/243/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{\wedge-4}*\sinx^2*\pi^{\wedge-} \\
& 4 + 4/243/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{\wedge-4}*\sinx^4*\pi^{\wedge-4} - 2/243/(mass(3) \\
& - mass(8))*\ln(6)*\ln(8)*F^{\wedge-4}*\sinx^6*\pi^{\wedge-4} + 2048/243/(mass(3) - mass(8))*\ln(8)*F^{\wedge-} \\
& 4*\sinx^2*L8r*\pi^{\wedge-2} + 2048/81/(mass(3) - mass(8))*\ln(8)*F^{\wedge-4}*\sinx^2*L7r*\pi^{\wedge-} \\
& 2 - 4096/243/(mass(3) - mass(8))*\ln(8)*F^{\wedge-4}*\sinx^4*L8r*\pi^{\wedge-2} - 4096/81/(mass(3) \\
& - mass(8))*\ln(8)*F^{\wedge-4}*\sinx^4*L7r*\pi^{\wedge-2} + 2048/243/(mass(3) - mass(8))*\ln(8)*F^{\wedge-} \\
& 4*\sinx^6*L8r*\pi^{\wedge-2} + 2048/81/(mass(3) - mass(8))*\ln(8)*F^{\wedge-4}*\sinx^6*L7r*\pi^{\wedge-} \\
& 2 - 7/1458/(mass(3) - mass(8))*\ln(8)^2*\sqrt{3}^{\wedge-1}*\sinx^2*\pi^{\wedge-4} + 23/1458/(mass(3) \\
& - mass(8))*\ln(8)^2*\sqrt{3}^{\wedge-1}*\sinx^4*\pi^{\wedge-4} - 4/243/(mass(3) - mass(8))*\ln(8)^2*\sqrt{3}^{\wedge-} \\
& 4*\sinx^6*\pi^{\wedge-4} + 4/729/(mass(3) - mass(8))*\ln(8)^2*\sqrt{3}^{\wedge-1}*\sinx^8*\pi^{\wedge-4} + \\
& 19/1152/(mass(4))*\ln(4)^2*\sqrt{3}^{\wedge-1}*\sinx*\cosx*\pi^{\wedge-4} - 55/9216/(mass(4))*\ln(4)^2*\sqrt{3}^{\wedge-} \\
& 4*\pi^{\wedge-4} + 25/4608/(mass(4))*\ln(4)^2*\sqrt{3}^{\wedge-1}*\sinx^2*\pi^{\wedge-4} + 1/288/(mass(5))*\ln(4)^2*\sqrt{3}^{\wedge-} \\
& 4*\sqrt{3}^{\wedge-1}*\sinx*\cosx*\pi^{\wedge-4} - 7/3072/(mass(5))*\ln(4)^2*\sqrt{3}^{\wedge-1}*\pi^{\wedge-4} + \\
& 13/4608/(mass(5))*\ln(4)^2*\sqrt{3}^{\wedge-1}*\sinx^2*\pi^{\wedge-4} - 19/1152/(mass(6))*\ln(6)^2*\sqrt{3}^{\wedge-} \\
& 4*\sqrt{3}^{\wedge-1}*\sinx*\cosx*\pi^{\wedge-4} - 55/9216/(mass(6))*\ln(6)^2*\sqrt{3}^{\wedge-1}*\pi^{\wedge-4} + \\
& 25/4608/(mass(6))*\ln(6)^2*\sqrt{3}^{\wedge-1}*\sinx^2*\pi^{\wedge-4} - 1/288/(mass(7))*\ln(6)^2*\sqrt{3}^{\wedge-} \\
& 4*\sqrt{3}^{\wedge-1}*\sinx*\cosx*\pi^{\wedge-4} - 7/3072/(mass(7))*\ln(6)^2*\sqrt{3}^{\wedge-1}*\pi^{\wedge-4} + \\
& 13/4608/(mass(7))*\ln(6)^2*\sqrt{3}^{\wedge-1}*\sinx^2*\pi^{\wedge-4} - 289/11664/(mass(8))*\ln(8)^2*\sqrt{3}^{\wedge-} \\
& 4*\pi^{\wedge-4} + 329/11664/(mass(8))*\ln(8)^2*\sqrt{3}^{\wedge-1}*\sinx^2*\pi^{\wedge-4} - 5/1458/(mass(8))*\ln(8)^2*\sqrt{3}^{\wedge-} \\
& 4*\sinx^4*\pi^{\wedge-4}) \\
& + mpp2*mkp2 * (- 4/3*HH1b(1,5,6,pl\text{ext}.pl\text{ext})*F^{\wedge-4} + 4/3*HH1b(1,5,6,pl\text{ext}.pl\text{ext})*F^{\wedge-} \\
& 4*\sinx^2 - 4/3*HH1b(2,4,7,pl\text{ext}.pl\text{ext})*F^{\wedge-4} + 4/3*HH1b(2,4,7,pl\text{ext}.pl\text{ext})*F^{\wedge-} \\
& 4*\sinx^2 + 4/9*HH1b(3,4,5,pl\text{ext}.pl\text{ext})*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sinx*\cosx + \\
& 16/9*HH1b(3,4,5,pl\text{ext}.pl\text{ext})*F^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sinx^3*\cosx - 2/3*HH1b(3,4,5,pl\text{ext}.pl\text{ext})*F^{\wedge-} \\
& 4 + 22/9*HH1b(3,4,5,pl\text{ext}.pl\text{ext})*F^{\wedge-4}*\sinx^2 - 16/9*HH1b(3,4,5,pl\text{ext}.pl\text{ext})*F^{\wedge-}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin^4 - 4/9^*\text{HH1b}(3,6,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^*\cos - 16/9^*\text{HH1b}(3,6,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^3\cos - 2/3^*\text{HH1b}(3,6,7,\text{plext.plext})^*F^{-4} + 22/9^*\text{HH1b}(3,6,7,\text{plext.plext})^*F^{-4}\sin^2 - 16/9^*\text{HH1b}(3,6,7,\text{plext.plext})^*F^{-4}\sin^4 + 28/9^*\text{HH1b}(4,5,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^*\cos + 16/9^*\text{HH1b}(4,5,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^3\cos \\
& - 10/3^*\text{HH1b}(4,5,8,\text{plext.plext})^*F^{-4} + 46/9^*\text{HH1b}(4,5,8,\text{plext.plext})^*F^{-4}\sin^2 - 16/9^*\text{HH1b}(4,5,8,\text{plext.plext})^*F^{-4}\sin^4 + 28/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^*\cos + 16/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^3\cos \\
& - 10/3^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-4} + 46/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-4}\sin^2 - 16/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-4}\sin^4 - 28/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^*\cos - 16/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^3\cos \\
& - 10/3^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-4} + 46/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-4}\sin^2 - 16/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-4}\sin^4 - 28/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^*\cos - 16/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^3\cos \\
& - 10/3^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-4} + 46/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-4}\sin^2 - 16/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-4}\sin^4 - 16/9^*\text{Hb}(1,2,3,\text{plext.plext})^*F^{-4}\sin^2 + 16/9^*\text{Hb}(1,2,3,\text{plext.plext})^*F^{-4}\sin^4 + 16/9^*\text{Hb}(1,2,8,\text{plext.plext})^*F^{-4}\sin^2 - 16/9^*\text{Hb}(1,2,8,\text{plext.plext})^*F^{-4}\sin^4 + 1/2^*\text{Hb}(1,5,6,\text{plext.plext})^*F^{-4} - 1/2^*\text{Hb}(1,5,6,\text{plext.plext})^*F^{-4}\sin^2 + 1/2^*\text{Hb}(2,4,7,\text{plext.plext})^*F^{-4} - 1/2^*\text{Hb}(2,4,7,\text{plext.plext})^*F^{-4}\sin^2 + 4/9^*\text{Hb}(3,1,2,\text{plext.plext})^*F^{-4}\sin^2 - 4/9^*\text{Hb}(3,1,2,\text{plext.plext})^*F^{-4}\sin^4 - 128/243^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4}\sin^2 + 128/27^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4}\sin^4 - 2048/243^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4}\sin^6 + 1024/243^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4}\sin^8 + 32/27^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{-4}\sin^2 - 1120/81^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{-4}\sin^4 + 2048/81^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{-4}\sin^6 - 1024/81^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{-4}\sin^8 + 5/3^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^*\cos - 10/3^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^3\cos + 1/4^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4} + 2/27^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4}\sin^2 - 2/27^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4}\sin^4 - 5/3^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^*\cos + 10/3^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^3\cos + 1/4^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4} + 2/27^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}\sin^2 - 2/27^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}\sin^4 - 128/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}\sin^2 + 128/9^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}\sin^4 - 2048/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}\sin^6 + 1024/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}\sin^8 + 1/2^*\text{Hb}(4,2,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^*\cos + 1/4^*\text{Hb}(4,2,7,\text{plext.plext})^*F^{-4}\sin^2 - 32/9^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^*\cos + 8/9^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^3\cos + 2^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4} - 110/27^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}\sin^2 + 56/27^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}\sin^4 + 1/2^*\text{Hb}(5,1,6,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^*\cos + 1/4^*\text{Hb}(5,1,6,\text{plext.plext})^*F^{-4}\sin^2 - 1/2^*\text{Hb}(6,1,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^*\cos + 1/4^*\text{Hb}(6,1,5,\text{plext.plext})^*F^{-4}\sin^2 + 32/9^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^*\cos - 8/9^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^3\cos + 2^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4} - 110/27^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}\sin^2 + 56/27^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}\sin^4 - 1/2^*\text{Hb}(7,2,4,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^*\cos + 1/4^*\text{Hb}(7,2,4,\text{plext.plext})^*F^{-4}\sin^2 - 4/9^*\text{Hb}(8,1,2,\text{plext.plext})^*F^{-4}\sin^2 + 4/9^*\text{Hb}(8,1,2,\text{plext.plext})^*F^{-4}\sin^4 + 2/3^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^*\cos + 2/3^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin^3\cos - 1/2^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4} + 13/18^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}\sin^2 - 2/9^*\text{Hb}(8,4,5,\text{plext.plext})^*F^{-4}\sin^4 - 2/3^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}-1} \sin x \cos x - 2/3 \text{Hb}(8,6,7, \text{plext.plext}) F^{-4 \sqrt{3}-1} \sin^3 x \cos x - \\
& 1/2 \text{Hb}(8,6,7, \text{plext.plext}) F^{-4} + 13/18 \text{Hb}(8,6,7, \text{plext.plext}) F^{-4} \sin^2 x - \\
& 2/9 \text{Hb}(8,6,7, \text{plext.plext}) F^{-4} \sin^4 x - 112/243 \text{Hb}(8,8,8, \text{plext.plext}) F^{-4} \\
& + 112/81 \text{Hb}(8,8,8, \text{plext.plext}) F^{-4} \sin^2 x - 416/81 \text{Hb}(8,8,8, \text{plext.plext}) F^{-4} \\
& 4 \sin^4 x + 2048/243 \text{Hb}(8,8,8, \text{plext.plext}) F^{-4} \sin^6 x - 1024/243 \text{Hb}(8,8,8, \text{plext.plext}) F^{-4} \\
& 4 \sin^8 x - \text{H21b}(1,5,6, \text{plext.plext}) F^{-4} + \text{H21b}(1,5,6, \text{plext.plext}) F^{-4} \\
& 4 \sin^2 x - \text{H21b}(2,4,7, \text{plext.plext}) F^{-4} + \text{H21b}(2,4,7, \text{plext.plext}) F^{-4} \\
& 4 \sin^2 x + 4/3 \text{H21b}(3,1,2, \text{plext.plext}) F^{-4} \sin^2 x - 4/3 \text{H21b}(3,1,2, \text{plext.plext}) F^{-4} \\
& 4 \sin^4 x - 2 \text{H21b}(3,4,5, \text{plext.plext}) F^{-4} \sqrt{3}-1 \sin^3 x \cos x - 1/2 \text{H21b}(3,4,5, \text{plext.plext}) F^{-4} \\
& 4 - 1/6 \text{H21b}(3,4,5, \text{plext.plext}) F^{-4} \sin^2 x + 2/3 \text{H21b}(3,4,5, \text{plext.plext}) F^{-4} \\
& 4 \sin^4 x + 2 \text{H21b}(3,6,7, \text{plext.plext}) F^{-4} \sqrt{3}-1 \sin^3 x \cos x - 1/2 \text{H21b}(3,6,7, \text{plext.plext}) F^{-4} \\
& 4 - 1/6 \text{H21b}(3,6,7, \text{plext.plext}) F^{-4} \sin^2 x + 2/3 \text{H21b}(3,6,7, \text{plext.plext}) F^{-4} \\
& 4 \sin^4 x - \text{H21b}(4,2,7, \text{plext.plext}) F^{-4} \sqrt{3}-1 \sin x \cos x - \text{H21b}(5,1,6, \text{plext.plext}) F^{-4} \\
& 4 \sqrt{3}-1 \sin x \cos x + \text{H21b}(6,1,5, \text{plext.plext}) F^{-4} \sqrt{3}-1 \sin x \cos x + \\
& \text{H21b}(7,2,4, \text{plext.plext}) F^{-4} \sqrt{3}-1 \sin x \cos x - 4/3 \text{H21b}(8,1,2, \text{plext.plext}) F^{-4} \\
& 4 \sin^2 x + 4/3 \text{H21b}(8,1,2, \text{plext.plext}) F^{-4} \sin^4 x + 2 \text{H21b}(8,4,5, \text{plext.plext}) F^{-4} \\
& 4 \sqrt{3}-1 \sin x \cos x + 2 \text{H21b}(8,4,5, \text{plext.plext}) F^{-4} \sqrt{3}-1 \sin^3 x \cos x \\
& - 3/2 \text{H21b}(8,4,5, \text{plext.plext}) F^{-4} + 13/6 \text{H21b}(8,4,5, \text{plext.plext}) F^{-4} \\
& 4 \sin^2 x - 2/3 \text{H21b}(8,4,5, \text{plext.plext}) F^{-4} \sin^4 x - 2 \text{H21b}(8,6,7, \text{plext.plext}) F^{-4} \\
& 4 \sqrt{3}-1 \sin x \cos x - 2 \text{H21b}(8,6,7, \text{plext.plext}) F^{-4} \sqrt{3}-1 \sin^3 x \cos x \\
& - 3/2 \text{H21b}(8,6,7, \text{plext.plext}) F^{-4} + 13/6 \text{H21b}(8,6,7, \text{plext.plext}) F^{-4} \\
& 4 \sin^2 x - 2/3 \text{H21b}(8,6,7, \text{plext.plext}) F^{-4} \sin^4 x) \\
& + \text{mpp}^2 \text{mkp}^2 \cdot (+ 367/12288 F^{-4} \pi^{-4} + 133/27648 F^{-4} \pi^{-2} \\
& + 92/27 F^{-4} L_8 r \pi^{-2} + 52/9 F^{-4} L_7 r \pi^{-2} + 16/9 F^{-4} L_6 r \pi^{-2} \\
& - 20/27 F^{-4} L_5 r \pi^{-2} + 5120/9 F^{-4} L_5 r L_8 r + 1024 F^{-4} L_5 r L_7 r \\
& - 1024/9 F^{-4} L_5 r^2 - 8/9 F^{-4} L_4 r \pi^{-2} + 1024/3 F^{-4} L_4 r L_8 r + \\
& 1024 F^{-4} L_4 r L_7 r - 512 F^{-4} L_4 r L_6 r + 256 F^{-4} L_4 r^2 - 17/72 F^{-4} \\
& 4 L_3 r \pi^{-2} - 11/18 F^{-4} L_2 r \pi^{-2} - 4/9 F^{-4} L_1 r \pi^{-2} - 1024/3 F^{-4} \\
& 4 \text{CC}33 - 256/3 F^{-4} \text{CC}32 - 256 F^{-4} \text{CC}31 + 192 F^{-4} \text{CC}21 - 192 F^{-4} \\
& 4 \text{CC}20 - 384 F^{-4} \text{CC}19 + 128 F^{-4} \text{CC}18 + 640/9 F^{-4} \text{CC}17 + \\
& 320/3 F^{-4} \text{CC}16 + 640/9 F^{-4} \text{CC}14 + 512/9 F^{-4} \text{CC}12 - 103/3072 F^{-4} \\
& 4 \sin^2 x \pi^{-4} - 83/13824 F^{-4} \sin^2 x \pi^{-2} - 104/27 F^{-4} \sin^2 x L_8 r \pi^{-2} \\
& - 56/9 F^{-4} \sin^2 x L_7 r \pi^{-2} - 20/9 F^{-4} \sin^2 x L_6 r \pi^{-2} + 8/9 F^{-4} \\
& 4 \sin^2 x L_5 r \pi^{-2} - 5120/9 F^{-4} \sin^2 x L_5 r L_8 r - 1024 F^{-4} \sin^2 x L_5 r L_7 r \\
& + 1024/9 F^{-4} \sin^2 x L_5 r^2 + 10/9 F^{-4} \sin^2 x L_4 r \pi^{-2} - 1024/3 F^{-4} \\
& 4 \sin^2 x L_4 r L_8 r - 1024 F^{-4} \sin^2 x L_4 r L_7 r + 47/108 F^{-4} \sin^2 x L_3 r \pi^{-2} \\
& 2 + 4/3 F^{-4} \sin^2 x L_2 r \pi^{-2} + 4/9 F^{-4} \sin^2 x L_1 r \pi^{-2} + 1024/3 F^{-4} \\
& 4 \sin^2 x \text{CC}33 + 256/3 F^{-4} \sin^2 x \text{CC}32 + 256 F^{-4} \sin^2 x \text{CC}31 + \\
& 256 F^{-4} \sin^2 x \text{CC}20 + 384 F^{-4} \sin^2 x \text{CC}19 - 128 F^{-4} \sin^2 x \text{CC}18 - \\
& 640/9 F^{-4} \sin^2 x \text{CC}17 - 512/3 F^{-4} \sin^2 x \text{CC}16 - 640/9 F^{-4} \sin^2 x \text{CC}14 \\
& - 512/9 F^{-4} \sin^2 x \text{CC}12 - 1/324 \ln(1) F^{-4} \sin^2 x \pi^{-4} + 64/27 \ln(1) F^{-4} \\
& 4 \sin^2 x L_8 r \pi^{-2} + 64/9 \ln(1) F^{-4} \sin^2 x L_7 r \pi^{-2} + 1/324 \ln(1) F^{-4} \\
& 4 \sin^4 x \pi^{-4} - 64/27 \ln(1) F^{-4} \sin^4 x L_8 r \pi^{-2} - 64/9 \ln(1) F^{-4} \\
& 4 \sin^4 x L_7 r \pi^{-2} - 13/1296 \ln(1) \ln(3) F^{-4} \sin^2 x \pi^{-4} + 13/1296 \ln(1) \ln(3) F^{-4} \\
& 4 \sin^4 x \pi^{-4} - 17/2304 \ln(1) \ln(4) F^{-4} \sqrt{3}-1 \sin x \cos x \pi^{-4} -
\end{aligned}$$

$$\begin{aligned}
& 1/144*\ln(1)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^2*\pi^{-4} - 1/432*\ln(1)*\ln(4)*F^{-4}*\sin^2*\pi^{-4} + 1/432*\ln(1)*\ln(4)*F^{-4}*\sin^4*\pi^{-4} + 17/2304*\ln(1)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*\pi^{-4} + 1/144*\ln(1)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^2*\pi^{-4} - 1/432*\ln(1)*\ln(6)*F^{-4}*\sin^2*\pi^{-4} + 1/432*\ln(1)*\ln(6)*F^{-4}*\sin^4*\pi^{-4} + 1/144*\ln(1)*\ln(8)*F^{-4}*\sin^2*\pi^{-4} - 1/144*\ln(1)*\ln(8)*F^{-4}*\sin^4*\pi^{-4} + 1/1296*\ln(3)*F^{-4}*\sin^2*\pi^{-4} + 244/27*\ln(3)*F^{-4}*\sin^2*L8r*\pi^{-2} + 268/9*\ln(3)*F^{-4}*\sin^2*L7r*\pi^{-2} - 8/3*\ln(3)*F^{-4}*\sin^2*L6r*\pi^{-2} + 4/9*\ln(3)*F^{-4}*\sin^2*L5r*\pi^{-2} + 22/9*\ln(3)*F^{-4}*\sin^2*L4r*\pi^{-2} - 4/9*\ln(3)*F^{-4}*\sin^2*L3r*\pi^{-2} - 4/9*\ln(3)*F^{-4}*\sin^2*L2r*\pi^{-2} - 16/9*\ln(3)*F^{-4}*\sin^2*L1r*\pi^{-2} - 256/9*\ln(3)*F^{-4}*\sin^4*L8r*\pi^{-2} - 256/3*\ln(3)*F^{-4}*\sin^4*L7r*\pi^{-2} + 512/27*\ln(3)*F^{-4}*\sin^6*L8r*\pi^{-2} + 512/9*\ln(3)*F^{-4}*\sin^6*L7r*\pi^{-2} - 43/10368*\ln(3)^2*F^{-4}*\sin^2*\pi^{-4} + 5/864*\ln(3)^2*F^{-4}*\sin^4*\pi^{-4} + 5/432*\ln(3)^2*F^{-4}*\sin^6*\pi^{-4} - 1/81*\ln(3)^2*F^{-4}*\sin^8*\pi^{-4} + 23/3456*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*\pi^{-4} - 23/864*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^2*\pi^{-4} + 1/54*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^5*\cos^2*\pi^{-4} - 31/5184*\ln(3)*\ln(4)*F^{-4}*\sin^2*\pi^{-4} + 59/2592*\ln(3)*\ln(4)*F^{-4}*\sin^4*\pi^{-4} - 1/54*\ln(3)*\ln(4)*F^{-4}*\sin^6*\pi^{-4} - 23/3456*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*\pi^{-4} + 23/864*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^2*\pi^{-4} - 1/54*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin^5*\cos^2*\pi^{-4} - 31/5184*\ln(3)*\ln(6)*F^{-4}*\sin^2*\pi^{-4} + 59/2592*\ln(3)*\ln(6)*F^{-4}*\sin^4*\pi^{-4} - 1/54*\ln(3)*\ln(6)*F^{-4}*\sin^6*\pi^{-4} - 1/432*\ln(3)*\ln(8)*F^{-4}*\sin^2*\pi^{-4} + 11/432*\ln(3)*\ln(8)*F^{-4}*\sin^4*\pi^{-4} - 31/648*\ln(3)*\ln(8)*F^{-4}*\sin^6*\pi^{-4} + 2/81*\ln(3)*\ln(8)*F^{-4}*\sin^8*\pi^{-4} - 203/13824*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*\pi^{-4} + 16/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*L8r*\pi^{-2} + 56/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*L7r*\pi^{-2} - 12*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*L6r*\pi^{-2} + 4/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*L5r*\pi^{-2} + 35/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*L4r*\pi^{-2} - 47/12*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*L3r*\pi^{-2} - 8/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*L2r*\pi^{-2} - 32/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*L1r*\pi^{-2} + 1/72*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^2*\pi^{-4} - 32/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^2*L8r*\pi^{-2} - 32*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^2*L7r*\pi^{-2} - 1/3456*\ln(4)*F^{-4}*\pi^{-4} + \ln(4)*F^{-4}*\pi^{-4} + 4/3*\ln(4)*F^{-4}*\pi^{-4} + 2*\ln(4)*F^{-4}*\pi^{-4} - 5/18*\ln(4)*F^{-4}*\pi^{-4} - 5/3*\ln(4)*F^{-4}*\pi^{-4} + 7/24*\ln(4)*F^{-4}*\pi^{-4} + 1/6*\ln(4)*F^{-4}*\pi^{-4} + 2/3*\ln(4)*F^{-4}*\pi^{-4} - 23/41472*\ln(4)*F^{-4}*\pi^{-4} - 86/27*\ln(4)*F^{-4}*\pi^{-4} - 44/9*\ln(4)*F^{-4}*\pi^{-4} - 4*\ln(4)*F^{-4}*\pi^{-4} + 7/9*\ln(4)*F^{-4}*\pi^{-4} + 11/3*\ln(4)*F^{-4}*\pi^{-4} - 11/12*\ln(4)*F^{-4}*\pi^{-4} - 2/3*\ln(4)*F^{-4}*\pi^{-4} - 8/3*\ln(4)*F^{-4}*\pi^{-4} - 1/648*\ln(4)*F^{-4}*\pi^{-4} + 32/27*\ln(4)*F^{-4}*\pi^{-4} - 1/648*\ln(4)*F^{-4}*\pi^{-4} + 32/9*\ln(4)*F^{-4}*\pi^{-4} - 7/4608*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*\pi^{-4} + 1/72*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^2*\pi^{-4} + 1/9216*\ln(4)^2*F^{-4}*\pi^{-4} - 1/4608*\ln(4)^2*F^{-4}*\pi^{-4} + 25/9216*\ln(4)*\ln(6)*F^{-4}*\pi^{-4} + 1/864*\ln(4)*\ln(6)*F^{-4}*\pi^{-4} - 1/216*\ln(4)*\ln(6)*F^{-4}*\pi^{-4} - 119/3456*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^2*\cos^2*\pi^{-4} + 35/864*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^2*\pi^{-4} - 1/54*\ln(4)*\ln(8)*F^{-4}*\pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}-1} \sin^5 x \cos^x \pi^{-4} + 1/144 \ln(4) \ln(8) F^{-4} \pi^{-4} - 1/864 \ln(4) \ln(8) F^{-4} \pi^{-4} \\
& - 4 \sin^2 x \pi^{-4} - 7/288 \ln(4) \ln(8) F^{-4} \sin^4 x \pi^{-4} + 1/54 \ln(4) \ln(8) F^{-4} \sin^6 x \pi^{-4} \\
& + 203/13824 \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos^x \pi^{-4} - 16/3 \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos^x L8r \pi^{-2} \\
& - 56/3 \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos^x L7r \pi^{-2} + 12 \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos^x L6r \pi^{-2} \\
& - 4/9 \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos^x L5r \pi^{-2} - 35/3 \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos^x L4r \pi^{-2} \\
& + 47/12 \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos^x L3r \pi^{-2} + 8/3 \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos^x L2r \pi^{-2} \\
& + 32/3 \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos^x L1r \pi^{-2} - 1/72 \ln(6) F^{-4} \sqrt{3}^{-1} \sin^3 x \cos^x \pi^{-4} \\
& + 32/3 \ln(6) F^{-4} \sqrt{3}^{-1} \sin^3 x \cos^x L8r \pi^{-2} + 32 \ln(6) F^{-4} \sqrt{3}^{-1} \sin^3 x \cos^x L7r \pi^{-2} \\
& - 1/3456 \ln(6) F^{-4} \pi^{-4} + \ln(6) F^{-4} L8r \pi^{-2} + 4/3 \ln(6) F^{-4} L7r \pi^{-2} \\
& + 2 \ln(6) F^{-4} L6r \pi^{-2} - 5/18 \ln(6) F^{-4} L5r \pi^{-2} - 5/3 \ln(6) F^{-4} L4r \pi^{-2} \\
& + 7/24 \ln(6) F^{-4} L3r \pi^{-2} + 1/6 \ln(6) F^{-4} L2r \pi^{-2} + 2/3 \ln(6) F^{-4} L1r \pi^{-2} \\
& - 23/41472 \ln(6) F^{-4} \sin^2 x \pi^{-4} - 86/27 \ln(6) F^{-4} \sin^2 x L8r \pi^{-2} - 44/9 \ln(6) F^{-4} \sin^2 x L7r \pi^{-2} \\
& - 4 \ln(6) F^{-4} \sin^2 x L6r \pi^{-2} + 7/9 \ln(6) F^{-4} \sin^2 x L5r \pi^{-2} + 11/3 \ln(6) F^{-4} \sin^2 x L4r \pi^{-2} \\
& - 11/12 \ln(6) F^{-4} \sin^2 x L3r \pi^{-2} - 2/3 \ln(6) F^{-4} \sin^2 x L2r \pi^{-2} - 8/3 \ln(6) F^{-4} \sin^2 x L1r \pi^{-2} \\
& - 1/648 \ln(6) F^{-4} \sin^4 x \pi^{-4} + 32/27 \ln(6) F^{-4} \sin^4 x L8r \pi^{-2} + 32/9 \ln(6) F^{-4} \sin^4 x L7r \pi^{-2} \\
& + 7/4608 \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos^x \pi^{-4} - 1/72 \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin^3 x \cos^x \pi^{-4} \\
& + 1/9216 \ln(6)^2 F^{-4} \pi^{-4} - 1/4608 \ln(6)^2 F^{-4} \sin^2 x \pi^{-4} + 119/3456 \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos^x \pi^{-4} \\
& - 35/864 \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^3 x \cos^x \pi^{-4} + 1/54 \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^5 x \cos^x \pi^{-4} \\
& + 1/144 \ln(6) \ln(8) F^{-4} \pi^{-4} - 1/864 \ln(6) \ln(8) F^{-4} \sin^2 x \pi^{-4} - 7/288 \ln(6) \ln(8) F^{-4} \sin^4 x \pi^{-4} \\
& + 1/54 \ln(6) \ln(8) F^{-4} \sin^6 x \pi^{-4} - 1/192 \ln(8) F^{-4} \pi^{-4} + 412/27 \ln(8) F^{-4} L8r \pi^{-2} \\
& + 212/9 \ln(8) F^{-4} L7r \pi^{-2} + 56/9 \ln(8) F^{-4} L6r \pi^{-2} - 100/27 \ln(8) F^{-4} L5r \pi^{-2} - 22/9 \ln(8) F^{-4} L4r \pi^{-2} \\
& + 4/3 \ln(8) F^{-4} L3r \pi^{-2} + 8/3 \ln(8) F^{-4} L2r \pi^{-2} + 8/3 \ln(8) F^{-4} L1r \pi^{-2} + 1/192 \ln(8) F^{-4} \sin^2 x \pi^{-4} \\
& - 668/27 \ln(8) F^{-4} \sin^2 x L8r \pi^{-2} - 52 \ln(8) F^{-4} \sin^2 x L7r \pi^{-2} - 56/9 \ln(8) F^{-4} \sin^2 x L6r \pi^{-2} \\
& + 100/27 \ln(8) F^{-4} \sin^2 x L5r \pi^{-2} + 22/9 \ln(8) F^{-4} \sin^2 x L4r \pi^{-2} - 4/3 \ln(8) F^{-4} \sin^2 x L3r \pi^{-2} \\
& - 8/3 \ln(8) F^{-4} \sin^2 x L2r \pi^{-2} - 8/3 \ln(8) F^{-4} \sin^2 x L1r \pi^{-2} + 256/9 \ln(8) F^{-4} \sin^4 x L8r \pi^{-2} \\
& + 256/3 \ln(8) F^{-4} \sin^4 x L7r \pi^{-2} - 512/27 \ln(8) F^{-4} \sin^4 x L6r \pi^{-2} - 512/9 \ln(8) F^{-4} \sin^4 x L5r \pi^{-2} \\
& - 23/3456 \ln(8)^2 F^{-4} \pi^{-4} + 145/10368 \ln(8)^2 F^{-4} \sin^2 x \pi^{-4} - 1/32 \ln(8)^2 F^{-4} \sin^4 x \pi^{-4} \\
& + 47/1296 \ln(8)^2 F^{-4} \sin^6 x \pi^{-4} - 1/81 \ln(8)^2 F^{-4} \sin^8 x \pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& + \text{mpp}^2 \text{mkp}^2 \text{ }^3 * (- 161/46656 / (\text{mass}(3)) \ln(3)^2 F^{-4} \sin^2 x \pi^{-4} \\
& + 5/2916 / (\text{mass}(3)) \ln(3)^2 F^{-4} \sin^4 x \pi^{-4} + 1048576/81 / (\text{mass}(3) \\
& - \text{mass}(8)) F^{-4} \sin^2 x L8r^2 + 2097152/27 / (\text{mass}(3) - \text{mass}(8)) F^{-4} \sin^2 x L7r L8r \\
& + 1048576/9 / (\text{mass}(3) - \text{mass}(8)) F^{-4} \sin^2 x L7r^2 - 1048576/81 / (\text{mass}(3) - \text{mass}(8)) F^{-4} \sin^4 x L8r^2 \\
& - 2097152/27 / (\text{mass}(3) - \text{mass}(8)) F^{-4} \sin^4 x L7r L8r - 1048576/9 / (\text{mass}(3) - \text{mass}(8)) F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4*\sinx^4*L7r^2 + 1/486/(mass(3) - mass(8))*ln(1)*ln(3)*F^-4*\sinx^2*\pi^-4 \\
& - 1/486/(mass(3) - mass(8))*ln(1)*ln(3)*F^-4*\sinx^4*\pi^-4 + 1/288/(mass(3) \\
& - mass(8))*ln(1)*ln(4)*F^-4*\sqrt{3}^-1*\sinx*\cosx*\pi^-4 - 1/288/(mass(3) - \\
& mass(8))*ln(1)*ln(6)*F^-4*\sqrt{3}^-1*\sinx*\cosx*\pi^-4 - 1/486/(mass(3) - \\
& mass(8))*ln(1)*ln(8)*F^-4*\sinx^2*\pi^-4 + 1/486/(mass(3) - mass(8))*ln(1)*ln(8)*F^- \\
& 4*\sinx^4*\pi^-4 - 512/81/(mass(3) - mass(8))*ln(3)*F^-4*\sinx^2*L8r*\pi^-2 \\
& - 512/27/(mass(3) - mass(8))*ln(3)*F^-4*\sinx^2*L7r*\pi^-2 - 3584/243/(mass(3) \\
& - mass(8))*ln(3)*F^-4*\sinx^4*L8r*\pi^-2 - 3584/81/(mass(3) - mass(8))*ln(3)*F^- \\
& 4*\sinx^4*L7r*\pi^-2 + 5120/243/(mass(3) - mass(8))*ln(3)*F^-4*\sinx^6*L8r*\pi^- \\
& 2 + 5120/81/(mass(3) - mass(8))*ln(3)*F^-4*\sinx^6*L7r*\pi^-2 - 1/1458/(mass(3) \\
& - mass(8))*ln(3)^2*F^-4*\sinx^2*\pi^-4 + 13/1458/(mass(3) - mass(8))*ln(3)^2*F^- \\
& 4*\sinx^4*\pi^-4 - 2/729/(mass(3) - mass(8))*ln(3)^2*F^-4*\sinx^6*\pi^-4 - \\
& 4/729/(mass(3) - mass(8))*ln(3)^2*F^-4*\sinx^8*\pi^-4 - 163/15552/(mass(3) \\
& - mass(8))*ln(3)*ln(4)*F^-4*\sqrt{3}^-1*\sinx*\cosx*\pi^-4 + 5/972/(mass(3) - \\
& mass(8))*ln(3)*ln(4)*F^-4*\sqrt{3}^-1*\sinx^3*\cosx*\pi^-4 + 1/81/(mass(3) - \\
& mass(8))*ln(3)*ln(4)*F^-4*\sqrt{3}^-1*\sinx^5*\cosx*\pi^-4 + 5/972/(mass(3) - \\
& mass(8))*ln(3)*ln(4)*F^-4*\sinx^2*\pi^-4 + 5/324/(mass(3) - mass(8))*ln(3)*ln(4)*F^- \\
& 4*\sinx^4*\pi^-4 - 5/243/(mass(3) - mass(8))*ln(3)*ln(4)*F^-4*\sinx^6*\pi^-4 \\
& + 163/15552/(mass(3) - mass(8))*ln(3)*ln(6)*F^-4*\sqrt{3}^-1*\sinx*\cosx* \\
& \pi^-4 - 5/972/(mass(3) - mass(8))*ln(3)*ln(6)*F^-4*\sqrt{3}^-1*\sinx^3*\cosx* \\
& \pi^-4 - 1/81/(mass(3) - mass(8))*ln(3)*ln(6)*F^-4*\sqrt{3}^-1*\sinx^5*\cosx* \\
& \pi^-4 + 5/972/(mass(3) - mass(8))*ln(3)*ln(6)*F^-4*\sinx^2*\pi^-4 + \\
& 5/324/(mass(3) - mass(8))*ln(3)*ln(6)*F^-4*\sinx^4*\pi^-4 - 5/243/(mass(3) - \\
& mass(8))*ln(3)*ln(6)*F^-4*\sinx^6*\pi^-4 + 7/729/(mass(3) - mass(8))*ln(3)*ln(8)*F^- \\
& 4*\sinx^2*\pi^-4 + 1/729/(mass(3) - mass(8))*ln(3)*ln(8)*F^-4*\sinx^4*\pi^-4 \\
& - 16/729/(mass(3) - mass(8))*ln(3)*ln(8)*F^-4*\sinx^6*\pi^-4 + 8/729/(mass(3) - \\
& mass(8))*ln(3)*ln(8)*F^-4*\sinx^8*\pi^-4 + 656/27/(mass(3) - mass(8))*ln(4)*F^- \\
& 4*\sqrt{3}^-1*\sinx*\cosx*L8r*\pi^-2 + 656/9/(mass(3) - mass(8))*ln(4)*F^- \\
& 4*\sqrt{3}^-1*\sinx*\cosx*L7r*\pi^-2 - 1024/27/(mass(3) - mass(8))*ln(4)*F^- \\
& 4*\sqrt{3}^-1*\sinx^3*\cosx*L8r*\pi^-2 - 1024/9/(mass(3) - mass(8))*ln(4)*F^- \\
& 4*\sqrt{3}^-1*\sinx^3*\cosx*L7r*\pi^-2 - 2048/81/(mass(3) - mass(8))*ln(4)*F^- \\
& 4*\sinx^2*L8r*\pi^-2 - 2048/27/(mass(3) - mass(8))*ln(4)*F^-4*\sinx^2*L7r*\pi^- \\
& 2 + 2048/81/(mass(3) - mass(8))*ln(4)*F^-4*\sinx^4*L8r*\pi^-2 + 2048/27/(mass(3) \\
& - mass(8))*ln(4)*F^-4*\sinx^4*L7r*\pi^-2 - 11/432/(mass(3) - mass(8))*ln(4)^2*F^- \\
& 4*\sqrt{3}^-1*\sinx*\cosx*\pi^-4 + 1/27/(mass(3) - mass(8))*ln(4)^2*F^- \\
& 4*\sqrt{3}^-1*\sinx^3*\cosx*\pi^-4 + 1/864/(mass(3) - mass(8))*ln(4)^2*F^- \\
& 4*\pi^-4 + 55/5184/(mass(3) - mass(8))*ln(4)^2*F^-4*\sinx^2*\pi^-4 - \\
& 1/81/(mass(3) - mass(8))*ln(4)^2*F^-4*\sinx^4*\pi^-4 - 1/432/(mass(3) - \\
& mass(8))*ln(4)*ln(6)*F^-4*\pi^-4 + 73/2592/(mass(3) - mass(8))*ln(4)*ln(6)*F^- \\
& 4*\sinx^2*\pi^-4 - 2/81/(mass(3) - mass(8))*ln(4)*ln(6)*F^-4*\sinx^4*\pi^-4 - \\
& 329/15552/(mass(3) - mass(8))*ln(4)*ln(8)*F^-4*\sqrt{3}^-1*\sinx*\cosx*\pi^-4 \\
& + 43/972/(mass(3) - mass(8))*ln(4)*ln(8)*F^-4*\sqrt{3}^-1*\sinx^3*\cosx*\pi^-4 \\
& - 1/81/(mass(3) - mass(8))*ln(4)*ln(8)*F^-4*\sqrt{3}^-1*\sinx^5*\cosx*\pi^-4 + \\
& 1/36/(mass(3) - mass(8))*ln(4)*ln(8)*F^-4*\sinx^2*\pi^-4 - 47/972/(mass(3) - \\
& mass(8))*ln(4)*ln(8)*F^-4*\sinx^4*\pi^-4 + 5/243/(mass(3) - mass(8))*ln(4)*ln(8)*F^- \\
& 4*\sinx^6*\pi^-4 - 656/27/(mass(3) - mass(8))*ln(6)*F^-4*\sqrt{3}^-1*\sinx*\cosx*L8r*\pi^-
\end{aligned}$$

$$\begin{aligned}
& 2 - 656/9/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt{3}^{-1}*sinx*cosx*L7r*pi^{-2} + \\
& 1024/27/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt{3}^{-1}*sinx^3*cosx*L8r*pi^{-2} \\
& + 1024/9/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt{3}^{-1}*sinx^3*cosx*L7r*pi^{-2} - \\
& 2048/81/(mass(3) - mass(8))*ln(6)*F^{-4}*sinx^2*L8r*pi^{-2} - 2048/27/(mass(3) - \\
& mass(8))*ln(6)*F^{-4}*sinx^2*L7r*pi^{-2} + 2048/81/(mass(3) - mass(8))*ln(6)*F^{-4} \\
& *sinx^4*L8r*pi^{-2} + 2048/27/(mass(3) - mass(8))*ln(6)*F^{-4}*sinx^4*L7r*pi^{-2} \\
& + 11/432/(mass(3) - mass(8))*ln(6)^2*F^{-4}*sqrt{3}^{-1}*sinx*cosx*pi^{-4} \\
& - 1/27/(mass(3) - mass(8))*ln(6)^2*F^{-4}*sqrt{3}^{-1}*sinx^3*cosx*pi^{-4} \\
& + 1/864/(mass(3) - mass(8))*ln(6)^2*F^{-4}*pi^{-4} + 55/5184/(mass(3) - \\
& mass(8))*ln(6)^2*F^{-4}*sinx^2*pi^{-4} - 1/81/(mass(3) - mass(8))*ln(6)^2*F^{-4} \\
& *sinx^4*pi^{-4} + 329/15552/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sqrt{3}^{-1} \\
& *sinx*cosx*pi^{-4} - 43/972/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sqrt{3}^{-1} \\
& *sinx^3*cosx*pi^{-4} + 1/81/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sqrt{3}^{-1} \\
& *sinx^5*cosx*pi^{-4} + 1/36/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sinx^2*pi^{-4} \\
& - 47/972/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sinx^4*pi^{-4} + 5/243/(mass(3) \\
& - mass(8))*ln(6)*ln(8)*F^{-4}*sinx^6*pi^{-4} - 6656/243/(mass(3) - mass(8))*ln(8)*F^{-4} \\
& *sinx^2*L8r*pi^{-2} - 6656/81/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^2*L7r*pi^{-2} \\
& + 11776/243/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^4*L8r*pi^{-2} + 11776/81/(mass(3) \\
& - mass(8))*ln(8)*F^{-4}*sinx^4*L7r*pi^{-2} - 5120/243/(mass(3) - mass(8))*ln(8)*F^{-4} \\
& *sinx^6*L8r*pi^{-2} - 5120/81/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^6*L7r*pi^{-2} \\
& + 19/1458/(mass(3) - mass(8))*ln(8)^2*F^{-4}*sinx^2*pi^{-4} - 47/1458/(mass(3) \\
& - mass(8))*ln(8)^2*F^{-4}*sinx^4*pi^{-4} + 2/81/(mass(3) - mass(8))*ln(8)*F^{-4} \\
& *sinx^6*pi^{-4} - 4/729/(mass(3) - mass(8))*ln(8)^2*F^{-4}*sinx^8*pi^{-4} - \\
& 103/4608/(mass(4))*ln(4)^2*F^{-4}*sqrt{3}^{-1}*sinx*cosx*pi^{-4} + 49/18432/(mass(4))*ln(4)^2*F^{-4} \\
& *pi^{-4} - 13/3072/(mass(4))*ln(4)^2*F^{-4}*sinx^2*pi^{-4} - 79/4608/(mass(5))*ln(4)^2*F^{-4} \\
& *sqrt{3}^{-1}*sinx*cosx*pi^{-4} + 53/18432/(mass(5))*ln(4)^2*F^{-4}*pi^{-4} - \\
& 13/3072/(mass(5))*ln(4)^2*F^{-4}*sinx^2*pi^{-4} + 103/4608/(mass(6))*ln(6)^2*F^{-4} \\
& *sqrt{3}^{-1}*sinx*cosx*pi^{-4} + 49/18432/(mass(6))*ln(6)^2*F^{-4}*pi^{-4} - \\
& 13/3072/(mass(6))*ln(6)^2*F^{-4}*sinx^2*pi^{-4} + 79/4608/(mass(7))*ln(6)^2*F^{-4} \\
& *sqrt{3}^{-1}*sinx*cosx*pi^{-4} + 53/18432/(mass(7))*ln(6)^2*F^{-4}*pi^{-4} - \\
& 13/3072/(mass(7))*ln(6)^2*F^{-4}*sinx^2*pi^{-4} + 349/11664/(mass(8))*ln(8)^2*F^{-4} \\
& *pi^{-4} - 329/11664/(mass(8))*ln(8)^2*F^{-4}*sinx^2*pi^{-4} - 5/2916/(mass(8))*ln(8)^2*F^{-4} \\
& *sinx^4*pi^{-4}) \\
& + mpp2^2 * (- 8/9*HH1b(1,2,3,plext,plext)*F^{-4}*sinx^2 + 8/9*HH1b(1,2,3,plext,plext)*F^{-4} \\
& *sinx^4 + 44/9*HH1b(1,2,8,plext,plext)*F^{-4}*sinx^2 - 8/9*HH1b(1,2,8,plext,plext)*F^{-4} \\
& *sinx^4 + 2/3*HH1b(1,5,6,plext,plext)*F^{-4}*sqrt{3}^{-1}*sinx*cosx + \\
& 1/3*HH1b(1,5,6,plext,plext)*F^{-4} + 2/3*HH1b(1,5,6,plext,plext)*F^{-4} \\
& *sinx^2 - 8/9*HH1b(2,1,3,plext,plext)*F^{-4}*sinx^2 + 8/9*HH1b(2,1,3,plext,plext)*F^{-4} \\
& *sinx^4 + 44/9*HH1b(2,1,8,plext,plext)*F^{-4}*sinx^2 - 8/9*HH1b(2,1,8,plext,plext)*F^{-4} \\
& *sinx^4 + 2/3*HH1b(2,4,7,plext,plext)*F^{-4}*sqrt{3}^{-1}*sinx*cosx + \\
& 1/3*HH1b(2,4,7,plext,plext)*F^{-4} + 2/3*HH1b(2,4,7,plext,plext)*F^{-4} \\
& *sinx^2 - 2/9*HH1b(3,4,5,plext,plext)*F^{-4}*sqrt{3}^{-1}*sinx*cosx + 4/9*HH1b(3,4,5,plext,plext)*F^{-4} \\
& *sqrt{3}^{-1}*sinx^3*cosx + 1/6*HH1b(3,4,5,plext,plext)*F^{-4} + 2/3*HH1b(3,4,5,plext,plext)*F^{-4} \\
& *sinx^2 - 4/3*HH1b(3,4,5,plext,plext)*F^{-4}*sinx^4 + 2/9*HH1b(3,6,7,plext,plext)*F^{-4} \\
& *sqrt{3}^{-1}*sinx*cosx - 4/9*HH1b(3,6,7,plext,plext)*F^{-4}*sqrt{3}^{-1}*sinx^3*cosx
\end{aligned}$$

$$\begin{aligned}
& + 1/6*HH1b(3,6,7,plext.plext)*F^{-4} + 2/3*HH1b(3,6,7,plext.plext)*F^{-4} \\
& * \sin^2 - 4/3*HH1b(3,6,7,plext.plext)*F^{-4} * \sin^4 + 4/3*HH1b(4,2,7,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1} * \sin * \cos - 32/9*HH1b(4,5,8,plext.plext)*F^{-4} * \sqrt{3}^{-1} * \sin * \cos \\
& + 4/9*HH1b(4,5,8,plext.plext)*F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos + 1/2*HH1b(4,5,8,plext.plext)*F^{-4} \\
& + 4/3*HH1b(4,5,8,plext.plext)*F^{-4} * \sin^2 - 4/3*HH1b(4,5,8,plext.plext)*F^{-4} \\
& * \sin^4 + 4/3*HH1b(5,1,6,plext.plext)*F^{-4} * \sqrt{3}^{-1} * \sin * \cos - 32/9*HH1b(5,4,8,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1} * \sin * \cos + 4/9*HH1b(5,4,8,plext.plext)*F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos \\
& + 1/2*HH1b(5,4,8,plext.plext)*F^{-4} + 4/3*HH1b(5,4,8,plext.plext)*F^{-4} \\
& * \sin^2 - 4/3*HH1b(5,4,8,plext.plext)*F^{-4} * \sin^4 + 32/9*HH1b(6,7,8,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1} * \sin * \cos - 4/9*HH1b(6,7,8,plext.plext)*F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos \\
& + 1/2*HH1b(6,7,8,plext.plext)*F^{-4} + 4/3*HH1b(6,7,8,plext.plext)*F^{-4} \\
& * \sin^2 - 4/3*HH1b(6,7,8,plext.plext)*F^{-4} * \sin^4 + 32/9*HH1b(7,6,8,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1} * \sin * \cos - 4/9*HH1b(7,6,8,plext.plext)*F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos \\
& + 1/2*HH1b(7,6,8,plext.plext)*F^{-4} + 4/3*HH1b(7,6,8,plext.plext)*F^{-4} \\
& * \sin^2 - 4/3*HH1b(7,6,8,plext.plext)*F^{-4} * \sin^4 + 4/3*Hb(1,2,3,plext.plext)*F^{-4} \\
& * \sin^2 - 4/3*Hb(1,2,3,plext.plext)*F^{-4} * \sin^4 + 1/9*Hb(1,2,8,plext.plext)*F^{-4} \\
& - 40/9*Hb(1,2,8,plext.plext)*F^{-4} * \sin^2 + 4/3*Hb(1,2,8,plext.plext)*F^{-4} \\
& * \sin^4 - 2/3*Hb(1,5,6,plext.plext)*F^{-4} * \sqrt{3}^{-1} * \sin * \cos + 1/24*Hb(1,5,6,plext.plext)*F^{-4} \\
& - 2/3*Hb(1,5,6,plext.plext)*F^{-4} * \sin^2 - 2/3*Hb(2,4,7,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1} * \sin * \cos + 1/24*Hb(2,4,7,plext.plext)*F^{-4} - 2/3*Hb(2,4,7,plext.plext)*F^{-4} \\
& * \sin^2 + 1/9*Hb(3,1,2,plext.plext)*F^{-4} * \sin^2 - 1/9*Hb(3,1,2,plext.plext)*F^{-4} \\
& * \sin^4 + 64/243*Hb(3,3,3,plext.plext)*F^{-4} * \sin^2 - 64/27*Hb(3,3,3,plext.plext)*F^{-4} \\
& * \sin^4 + 1024/243*Hb(3,3,3,plext.plext)*F^{-4} * \sin^6 - 512/243*Hb(3,3,3,plext.plext)*F^{-4} \\
& * \sin^8 + 1/18*Hb(3,3,8,plext.plext)*F^{-4} - 32/27*Hb(3,3,8,plext.plext)*F^{-4} \\
& * \sin^2 + 608/81*Hb(3,3,8,plext.plext)*F^{-4} * \sin^4 - 1024/81*Hb(3,3,8,plext.plext)*F^{-4} \\
& * \sin^6 + 512/81*Hb(3,3,8,plext.plext)*F^{-4} * \sin^8 - 17/36*Hb(3,4,5,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1} * \sin * \cos + 17/18*Hb(3,4,5,plext.plext)*F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos \\
& + 1/48*Hb(3,4,5,plext.plext)*F^{-4} - 47/54*Hb(3,4,5,plext.plext)*F^{-4} \\
& * \sin^2 + 47/54*Hb(3,4,5,plext.plext)*F^{-4} * \sin^4 + 17/36*Hb(3,6,7,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1} * \sin * \cos - 17/18*Hb(3,6,7,plext.plext)*F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos \\
& + 1/48*Hb(3,6,7,plext.plext)*F^{-4} - 47/54*Hb(3,6,7,plext.plext)*F^{-4} \\
& * \sin^2 + 47/54*Hb(3,6,7,plext.plext)*F^{-4} * \sin^4 + 64/81*Hb(3,8,8,plext.plext)*F^{-4} \\
& * \sin^2 - 64/9*Hb(3,8,8,plext.plext)*F^{-4} * \sin^4 + 1024/81*Hb(3,8,8,plext.plext)*F^{-4} \\
& * \sin^6 - 512/81*Hb(3,8,8,plext.plext)*F^{-4} * \sin^8 - 1/4*Hb(4,2,7,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1} * \sin * \cos + 25/9*Hb(4,5,8,plext.plext)*F^{-4} * \sqrt{3}^{-1} * \sin * \cos - \\
& 14/9*Hb(4,5,8,plext.plext)*F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos - 1/4*Hb(4,5,8,plext.plext)*F^{-4} \\
& - 14/27*Hb(4,5,8,plext.plext)*F^{-4} * \sin^2 + 14/27*Hb(4,5,8,plext.plext)*F^{-4} \\
& * \sin^4 - 1/4*Hb(5,1,6,plext.plext)*F^{-4} * \sqrt{3}^{-1} * \sin * \cos + 1/4*Hb(6,1,5,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1} * \sin * \cos - 25/9*Hb(6,7,8,plext.plext)*F^{-4} * \sqrt{3}^{-1} * \sin * \cos + \\
& 14/9*Hb(6,7,8,plext.plext)*F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos - 1/4*Hb(6,7,8,plext.plext)*F^{-4} \\
& - 14/27*Hb(6,7,8,plext.plext)*F^{-4} * \sin^2 + 14/27*Hb(6,7,8,plext.plext)*F^{-4} \\
& * \sin^4 + 1/4*Hb(7,2,4,plext.plext)*F^{-4} * \sqrt{3}^{-1} * \sin * \cos + 8/9*Hb(8,1,2,plext.plext)*F^{-4} \\
& * \sin^2 + 1/9*Hb(8,1,2,plext.plext)*F^{-4} * \sin^4 - 7/12*Hb(8,4,5,plext.plext)*F^{-4} \\
& * \sqrt{3}^{-1} * \sin * \cos + 1/6*Hb(8,4,5,plext.plext)*F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos \\
& + 1/16*Hb(8,4,5,plext.plext)*F^{-4} + 1/18*Hb(8,4,5,plext.plext)*F^{-4} * \sin^2 \\
& - 1/18*Hb(8,4,5,plext.plext)*F^{-4} * \sin^4 + 7/12*Hb(8,6,7,plext.plext)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sqrt{3}^{-1}*\sin x*\cos x - 1/6^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x \\
& + 1/16^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4} + 1/18^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}*\sin x^2 \\
& - 1/18^*\text{Hb}(8,6,7,\text{plext.plext})^*F^{-4}*\sin x^4 + 49/486^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4} \\
& + 16/81^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4}*\sin x^2 + 160/81^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4} \\
& * \sin x^4 - 1024/243^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4}*\sin x^6 + 512/243^*\text{Hb}(8,8,8,\text{plext.plext})^*F^{-4} \\
& * \sin x^8 + 1/8^*\text{H21b}(1,5,6,\text{plext.plext})^*F^{-4} - 1/2^*\text{H21b}(1,5,6,\text{plext.plext})^*F^{-4} \\
& * \sin x^2 + 1/8^*\text{H21b}(2,4,7,\text{plext.plext})^*F^{-4} - 1/2^*\text{H21b}(2,4,7,\text{plext.plext})^*F^{-4} \\
& * \sin x^2 + 1/3^*\text{H21b}(3,1,2,\text{plext.plext})^*F^{-4}*\sin x^2 - 1/3^*\text{H21b}(3,1,2,\text{plext.plext})^*F^{-4} \\
& * \sin x^4 - 3/4^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x - 1/2^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^3*\cos x + 1/16^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4} + 1/3^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4} \\
& * \sin x^2 + 1/6^*\text{H21b}(3,4,5,\text{plext.plext})^*F^{-4}*\sin x^4 + 3/4^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x + 1/2^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x \\
& + 1/16^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4} + 1/3^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4} \\
& * \sin x^2 + 1/6^*\text{H21b}(3,6,7,\text{plext.plext})^*F^{-4}*\sin x^4 + 5/4^*\text{H21b}(4,2,7,\text{plext.plext})^*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x + 3/4^*\text{H21b}(4,2,7,\text{plext.plext})^*F^{-4}*\sin x^2 + 5/4^*\text{H21b}(5,1,6,\text{plext.plext})^*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x + 3/4^*\text{H21b}(5,1,6,\text{plext.plext})^*F^{-4}*\sin x^2 - 5/4^*\text{H21b}(6,1,5,\text{plext.plext})^*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x + 3/4^*\text{H21b}(6,1,5,\text{plext.plext})^*F^{-4}*\sin x^2 - 5/4^*\text{H21b}(7,2,4,\text{plext.plext})^*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x + 3/4^*\text{H21b}(7,2,4,\text{plext.plext})^*F^{-4}*\sin x^2 + 8/3^*\text{H21b}(8,1,2,\text{plext.plext})^*F^{-4} \\
& * \sin x^2 + 1/3^*\text{H21b}(8,1,2,\text{plext.plext})^*F^{-4}*\sin x^4 - 7/4^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x + 1/2^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x \\
& + 3/16^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4} + 1/6^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4} \\
& * \sin x^2 - 1/6^*\text{H21b}(8,4,5,\text{plext.plext})^*F^{-4}*\sin x^4 + 7/4^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x - 1/2^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x \\
& + 3/16^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4} + 1/6^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4} \\
& * \sin x^2 - 1/6^*\text{H21b}(8,6,7,\text{plext.plext})^*F^{-4}*\sin x^4) \\
& + \text{mpp}2^{-2}*\text{mkp}2 * (- 4133/331776^*F^{-4}*\pi^{-4} - 269/124416^*F^{-4}*\pi^{-2} - \\
& 52/27^*F^{-4}*\text{L}8r*\pi^{-2} - 40/9^*F^{-4}*\text{L}7r*\pi^{-2} - 4/9^*F^{-4}*\text{L}6r*\pi^{-2} + 2/9^*F^{-4} \\
& * \text{L}5r*\pi^{-2} - 2560/9^*F^{-4}*\text{L}5r*\text{L}8r - 2048/3^*F^{-4}*\text{L}5r*\text{L}7r + 256/3^*F^{-4} \\
& * \text{L}5r*\text{L}6r + 256/9^*F^{-4}*\text{L}5r^2 + 2/9^*F^{-4}*\text{L}4r*\pi^{-2} + 256/3^*F^{-4}*\text{L}4r*\text{L}8r \\
& - 256/3^*F^{-4}*\text{L}4r*\text{L}5r + 2/9^*F^{-4}*\text{L}3r*\pi^{-2} + 11/18^*F^{-4}*\text{L}2r*\pi^{-2} + \\
& 1/9^*F^{-4}*\text{L}1r*\pi^{-2} + 512/3^*F^{-4}*\text{CC}33 - 64/3^*F^{-4}*\text{CC}32 + 128^*F^{-4}*\text{CC}31 \\
& + 64^*F^{-4}*\text{CC}20 + 192^*F^{-4}*\text{CC}19 - 256/3^*F^{-4}*\text{CC}18 - 320/9^*F^{-4}*\text{CC}17 - \\
& 256/3^*F^{-4}*\text{CC}16 + 32/3^*F^{-4}*\text{CC}15 - 320/9^*F^{-4}*\text{CC}14 + 64/3^*F^{-4}*\text{CC}13 \\
& - 128/9^*F^{-4}*\text{CC}12 + 3299/331776^*F^{-4}*\sin x^2*\pi^{-4} + 427/248832^*F^{-4} \\
& * \sin x^2*\pi^{-2} + 64/27^*F^{-4}*\sin x^2*\text{L}8r*\pi^{-2} + 16/3^*F^{-4}*\sin x^2*\text{L}7r*\pi^{-2} \\
& + 4/3^*F^{-4}*\sin x^2*\text{L}6r*\pi^{-2} - 8/27^*F^{-4}*\sin x^2*\text{L}5r*\pi^{-2} + 2560/9^*F^{-4} \\
& * \sin x^2*\text{L}5r*\text{L}8r + 2048/3^*F^{-4}*\sin x^2*\text{L}5r*\text{L}7r - 1024/3^*F^{-4}*\sin x^2*\text{L}5r*\text{L}6r \\
& - 256/9^*F^{-4}*\sin x^2*\text{L}5r^2 - 2/3^*F^{-4}*\sin x^2*\text{L}4r*\pi^{-2} - 1024/3^*F^{-4} \\
& * \sin x^2*\text{L}4r*\text{L}8r - 512^*F^{-4}*\sin x^2*\text{L}4r*\text{L}6r + 1024/3^*F^{-4}*\sin x^2*\text{L}4r*\text{L}5r \\
& + 256^*F^{-4}*\sin x^2*\text{L}4r^2 - 7/27^*F^{-4}*\sin x^2*\text{L}3r*\pi^{-2} - 13/18^*F^{-4} \\
& * \sin x^2*\text{L}2r*\pi^{-2} - 1/9^*F^{-4}*\sin x^2*\text{L}1r*\pi^{-2} - 512/3^*F^{-4}*\sin x^2*\text{CC}33 + \\
& 256/3^*F^{-4}*\sin x^2*\text{CC}32 - 128^*F^{-4}*\sin x^2*\text{CC}31 + 192^*F^{-4}*\sin x^2*\text{CC}21 \\
& - 64^*F^{-4}*\sin x^2*\text{CC}20 - 192^*F^{-4}*\sin x^2*\text{CC}19 + 256/3^*F^{-4}*\sin x^2*\text{CC}18 \\
& + 320/9^*F^{-4}*\sin x^2*\text{CC}17 + 448/3^*F^{-4}*\sin x^2*\text{CC}16 - 128/3^*F^{-4} \\
& * \sin x^2*\text{CC}15 + 320/9^*F^{-4}*\sin x^2*\text{CC}14 - 256/3^*F^{-4}*\sin x^2*\text{CC}13
\end{aligned}$$

$$\begin{aligned}
& + 128/9F^{-4}\sin x^2 CC12 + 1/864\ln(1)F^{-4}\pi^{-4} + 8/3\ln(1)F^{-4}L7r\pi^{-2} - 4\ln(1)F^{-4}L6r\pi^{-2} + 4/9\ln(1)F^{-4}L5r\pi^{-2} + \\
& 11/3\ln(1)F^{-4}L4r\pi^{-2} - 2/3\ln(1)F^{-4}L3r\pi^{-2} - 2/3\ln(1)F^{-4}L2r\pi^{-2} - 8/3\ln(1)F^{-4}L1r\pi^{-2} + 23/20736\ln(1)F^{-4}\sin x^2\pi^{-4} \\
& - 128/27\ln(1)F^{-4}\sin x^2L8r\pi^{-2} - 152/9\ln(1)F^{-4}\sin x^2L7r\pi^{-2} + 8\ln(1)F^{-4}\sin x^2L6r\pi^{-2} - 4/9\ln(1)F^{-4}\sin x^2L5r\pi^{-2} \\
& - 20/3\ln(1)F^{-4}\sin x^2L4r\pi^{-2} + 2/3\ln(1)F^{-4}\sin x^2L3r\pi^{-2} + 2/3\ln(1)F^{-4}\sin x^2L2r\pi^{-2} + 8/3\ln(1)F^{-4}\sin x^2L1r\pi^{-2} - \\
& 1/162\ln(1)F^{-4}\sin x^4\pi^{-4} + 128/27\ln(1)F^{-4}\sin x^4L8r\pi^{-2} + 128/9\ln(1)F^{-4}\sin x^4L7r\pi^{-2} + 59/5184\ln(1)\ln(3)F^{-4}\sin x^2\pi^{-4} \\
& - 29/1296\ln(1)\ln(3)F^{-4}\sin x^4\pi^{-4} + 1/108\ln(1)\ln(3)F^{-4}\sin x^6\pi^{-4} + 1/96\ln(1)\ln(4)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^{-4} - 1/144\ln(1)\ln(4)F^{-4} \\
& 4\sqrt{3}^{-1}\sin x^3\cos x\pi^{-4} - 1/512\ln(1)\ln(4)F^{-4}\pi^{-4} + 91/13824\ln(1)\ln(4)F^{-4}\sin x^2\pi^{-4} - 1/216\ln(1)\ln(4)F^{-4}\sin x^4\pi^{-4} - 1/96\ln(1)\ln(6)F^{-4} \\
& 4\sqrt{3}^{-1}\sin x\cos x\pi^{-4} + 1/144\ln(1)\ln(6)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x\pi^{-4} - 1/512\ln(1)\ln(6)F^{-4}\pi^{-4} + 91/13824\ln(1)\ln(6)F^{-4}\sin x^2\pi^{-4} \\
& - 1/216\ln(1)\ln(6)F^{-4}\sin x^4\pi^{-4} + 1/576\ln(1)\ln(8)F^{-4}\pi^{-4} - 5/576\ln(1)\ln(8)F^{-4}\sin x^2\pi^{-4} + 7/432\ln(1)\ln(8)F^{-4}\sin x^4\pi^{-4} \\
& - 1/108\ln(1)\ln(8)F^{-4}\sin x^6\pi^{-4} + 1/1728\ln(3)F^{-4}\pi^{-4} + 4/3\ln(3)F^{-4}L7r\pi^{-2} - 2\ln(3)F^{-4}L6r\pi^{-2} + 2/9\ln(3)F^{-4}L5r\pi^{-2} \\
& + 11/6\ln(3)F^{-4}L4r\pi^{-2} - 1/3\ln(3)F^{-4}L3r\pi^{-2} - 1/3\ln(3)F^{-4}L2r\pi^{-2} - 4/3\ln(3)F^{-4}L1r\pi^{-2} + 1/648\ln(3)F^{-4}\sin x^2\pi^{-4} \\
& - 124/27\ln(3)F^{-4}\sin x^2L8r\pi^{-2} - 24\ln(3)F^{-4}\sin x^2L7r\pi^{-2} + 56/9\ln(3)F^{-4}\sin x^2L6r\pi^{-2} - 46/27\ln(3)F^{-4}\sin x^2L5r\pi^{-2} \\
& - 47/9\ln(3)F^{-4}\sin x^2L4r\pi^{-2} + 5/9\ln(3)F^{-4}\sin x^2L3r\pi^{-2} + 5/9\ln(3)F^{-4}\sin x^2L2r\pi^{-2} + 20/9\ln(3)F^{-4}\sin x^2L1r\pi^{-2} \\
& - 1/324\ln(3)F^{-4}\sin x^4\pi^{-4} + 208/9\ln(3)F^{-4}\sin x^4L8r\pi^{-2} + 704/9\ln(3)F^{-4}\sin x^4L7r\pi^{-2} - 32/9\ln(3)F^{-4}\sin x^4L6r\pi^{-2} + \\
& 40/27\ln(3)F^{-4}\sin x^4L5r\pi^{-2} + 8/3\ln(3)F^{-4}\sin x^4L4r\pi^{-2} - 512/27\ln(3)F^{-4}\sin x^6L8r\pi^{-2} - 512/9\ln(3)F^{-4}\sin x^6L7r\pi^{-2} \\
& + 5/1296\ln(3)^2F^{-4}\sin x^2\pi^{-4} - 85/5184\ln(3)^2F^{-4}\sin x^4\pi^{-4} + 31/2592\ln(3)^2F^{-4}\sin x^6\pi^{-4} + 7/1152\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1} \\
& \sin x\cos x\pi^{-4} - 17/1728\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x\pi^{-4} + 1/216\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1}\sin x^5\cos x\pi^{-4} - 1/1024\ln(3)\ln(4)F^{-4} \\
& 4\pi^{-4} + 239/20736\ln(3)\ln(4)F^{-4}\sin x^2\pi^{-4} - 125/5184\ln(3)\ln(4)F^{-4}\sin x^4\pi^{-4} + 1/72\ln(3)\ln(4)F^{-4}\sin x^6\pi^{-4} - 7/1152\ln(3)\ln(6)F^{-4} \\
& 4\sqrt{3}^{-1}\sin x\cos x\pi^{-4} + 17/1728\ln(3)\ln(6)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x\pi^{-4} - 1/216\ln(3)\ln(6)F^{-4}\sqrt{3}^{-1}\sin x^5\cos x\pi^{-4} - 1/1024\ln(3)\ln(6)F^{-4} \\
& 4\pi^{-4} + 239/20736\ln(3)\ln(6)F^{-4}\sin x^2\pi^{-4} - 125/5184\ln(3)\ln(6)F^{-4}\sin x^4\pi^{-4} + 1/72\ln(3)\ln(6)F^{-4}\sin x^6\pi^{-4} + 1/1152\ln(3)\ln(8)F^{-4} \\
& 4\pi^{-4} - 5/2592\ln(3)\ln(8)F^{-4}\sin x^2\pi^{-4} + 1/864\ln(3)\ln(8)F^{-4}\sin x^4\pi^{-4} + 1/1296\ln(3)\ln(8)F^{-4}\sin x^6\pi^{-4} + 61/6912\ln(4)F^{-4} \\
& 4\sqrt{3}^{-1}\sin x\cos x\pi^{-4} + 4/9\ln(4)F^{-4}\sqrt{3}^{-1}\sin x\cos xL8r\pi^{-2} - 8\ln(4)F^{-4}\sqrt{3}^{-1}\sin x\cos xL7r\pi^{-2} + 8\ln(4)F^{-4}\sqrt{3}^{-1} \\
& \sin x\cos xL6r\pi^{-2} - 14/9\ln(4)F^{-4}\sqrt{3}^{-1}\sin x\cos xL5r\pi^{-2} - 22/3\ln(4)F^{-4}\sqrt{3}^{-1}\sin x\cos xL4r\pi^{-2} + 11/6\ln(4)F^{-4}\sqrt{3}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x*\cos x*L3r*\pi^{-2} + 4/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} + \\
& 16/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - 1/108*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*\pi^{-4} + 64/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} + \\
& 64/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} + 1/1536*\ln(4)*F^{-4}*\pi^{-4} \\
& - 155/41472*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} + 64/27*\ln(4)*F^{-4}*\sin x^2*L8r*\pi^{-2} \\
& + 64/9*\ln(4)*F^{-4}*\sin x^2*L7r*\pi^{-2} + 1/324*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} - \\
& 64/27*\ln(4)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 64/9*\ln(4)*F^{-4}*\sin x^4*L7r*\pi^{-2} + \\
& 5/2304*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/288*\ln(4)^2*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*\pi^{-4} - 1/288*\ln(4)^2*F^{-4}*\sin x^2*\pi^{-4} + 1/288*\ln(4)^2*F^{-4} \\
& 4*\sin x^4*\pi^{-4} - 1/432*\ln(4)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} + 1/432*\ln(4)*\ln(6)*F^{-4} \\
& 4*\sin x^4*\pi^{-4} + 55/3456*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 1/1728*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/216*\ln(4)*\ln(8)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 1/1024*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} - 23/1728*\ln(4)*\ln(8)*F^{-4} \\
& 4*\sin x^2*\pi^{-4} + 47/1728*\ln(4)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 1/72*\ln(4)*\ln(8)*F^{-4} \\
& 4*\sin x^6*\pi^{-4} - 61/6912*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 4/9*\ln(6)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 8*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} \\
& - 8*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} + 14/9*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L5r*\pi^{-2} + 22/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} \\
& - 11/6*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} - 4/3*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L2r*\pi^{-2} - 16/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + \\
& 1/108*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 64/9*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*L8r*\pi^{-2} - 64/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} \\
& 2 + 1/1536*\ln(6)*F^{-4}*\pi^{-4} - 155/41472*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} + \\
& 64/27*\ln(6)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 64/9*\ln(6)*F^{-4}*\sin x^2*L7r*\pi^{-2} \\
& 2 + 1/324*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} - 64/27*\ln(6)*F^{-4}*\sin x^4*L8r*\pi^{-2} \\
& 2 - 64/9*\ln(6)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 5/2304*\ln(6)^2*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*\pi^{-4} + 1/288*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/288*\ln(6)^2*F^{-4}*\sin x^2*\pi^{-4} + 1/288*\ln(6)^2*F^{-4}*\sin x^4*\pi^{-4} - \\
& 55/3456*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/1728*\ln(6)*\ln(8)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/216*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} \\
& 4 - 1/1024*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} - 23/1728*\ln(6)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + \\
& 47/1728*\ln(6)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 1/72*\ln(6)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} \\
& + 11/5184*\ln(8)*F^{-4}*\pi^{-4} - 188/27*\ln(8)*F^{-4}*\pi^{-4} - 128/9*\ln(8)*F^{-4} \\
& 4*L7r*\pi^{-2} - 2/9*\ln(8)*F^{-4}*\pi^{-4} - 10/9*\ln(8)*F^{-4}*\pi^{-4} - 2/3*\ln(8)*F^{-4} \\
& 7/18*\ln(8)*F^{-4}*\pi^{-4} - 1/3*\ln(8)*F^{-4}*\pi^{-4} - 2/3*\ln(8)*F^{-4} \\
& 4*L2r*\pi^{-2} - 2/3*\ln(8)*F^{-4}*\pi^{-4} - 1/192*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + \\
& 100/9*\ln(8)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 320/9*\ln(8)*F^{-4}*\sin x^2*L7r*\pi^{-2} \\
& - 16/3*\ln(8)*F^{-4}*\sin x^2*L6r*\pi^{-2} + 10/27*\ln(8)*F^{-4}*\sin x^2*L5r*\pi^{-2} \\
& + 41/9*\ln(8)*F^{-4}*\sin x^2*L4r*\pi^{-2} + 1/3*\ln(8)*F^{-4}*\sin x^2*L3r*\pi^{-2} \\
& + 2/3*\ln(8)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 2/3*\ln(8)*F^{-4}*\sin x^2*L1r*\pi^{-2} \\
& + 1/324*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 208/9*\ln(8)*F^{-4}*\sin x^4*L8r*\pi^{-2} - \\
& 704/9*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 32/9*\ln(8)*F^{-4}*\sin x^4*L6r*\pi^{-2} - \\
& 40/27*\ln(8)*F^{-4}*\sin x^4*L5r*\pi^{-2} - 8/3*\ln(8)*F^{-4}*\sin x^4*L4r*\pi^{-2} + \\
& 512/27*\ln(8)*F^{-4}*\sin x^6*L8r*\pi^{-2} + 512/9*\ln(8)*F^{-4}*\sin x^6*L7r*\pi^{-2} \\
& 2 + 1/432*\ln(8)^2*F^{-4}*\pi^{-4} - 25/5184*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} + \\
& 79/5184*\ln(8)^2*F^{-4}*\sin x^4*\pi^{-4} - 11/864*\ln(8)^2*F^{-4}*\sin x^6*\pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& + mpp2^2 * mkp2^2 * (+ 181/62208/(mass(3))*ln(3)^2 * F^{-4} * \sin x^2 * \pi^{-4} \\
& - 5/1944/(mass(3))*ln(3)^2 * F^{-4} * \sin x^4 * \pi^{-4} - 524288/27/(mass(3) \\
& - mass(8)) * F^{-4} * \sin x^2 * L8r^2 - 1048576/9/(mass(3) - mass(8)) * F^{-4} * \sin x^2 * L7r * L8r \\
& - 524288/3/(mass(3) - mass(8)) * F^{-4} * \sin x^2 * L7r^2 + 524288/27/(mass(3) - mass(8)) * F^{-4} * \sin x^4 * L8r^2 \\
& + 1048576/9/(mass(3) - mass(8)) * F^{-4} * \sin x^4 * L7r * L8r + 524288/3/(mass(3) - mass(8)) * F^{-4} * \sin x^4 * L7r^2 \\
& + 256/27/(mass(3) - mass(8)) * ln(1) * F^{-4} * \sin x^2 * L8r * \pi^{-2} + 256/9/(mass(3) - mass(8)) * ln(1) * F^{-4} * \sin x^2 * L7r * \pi^{-2} \\
& - 256/27/(mass(3) - mass(8)) * ln(1) * F^{-4} * \sin x^4 * L8r * \pi^{-2} - 256/9/(mass(3) - mass(8)) * ln(1) * F^{-4} * \sin x^4 * L7r * \pi^{-2} \\
& - 1/324/(mass(3) - mass(8)) * ln(1) * ln(3) * F^{-4} * \sin x^2 * \pi^{-4} - 1/108/(mass(3) - mass(8)) * ln(1) * ln(3) * F^{-4} * \sin x^4 * \pi^{-4} \\
& + 1/81/(mass(3) - mass(8)) * ln(1) * ln(3) * F^{-4} * \sin x^6 * \pi^{-4} + 1/72/(mass(3) - mass(8)) * ln(1) * ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& - 1/36/(mass(3) - mass(8)) * ln(1) * ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} - 1/108/(mass(3) - mass(8)) * ln(1) * ln(4) * F^{-4} * \sin x^2 * \pi^{-4} \\
& + 1/108/(mass(3) - mass(8)) * ln(1) * ln(4) * F^{-4} * \sin x^4 * \pi^{-4} - 1/72/(mass(3) - mass(8)) * ln(1) * ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& + 1/36/(mass(3) - mass(8)) * ln(1) * ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} + 1/108/(mass(3) - mass(8)) * ln(1) * ln(6) * F^{-4} * \sin x^2 * \pi^{-4} \\
& + 1/108/(mass(3) - mass(8)) * ln(1) * ln(6) * F^{-4} * \sin x^4 * \pi^{-4} - 1/108/(mass(3) - mass(8)) * ln(1) * ln(8) * F^{-4} * \sin x^2 * \pi^{-4} \\
& + 7/324/(mass(3) - mass(8)) * ln(1) * ln(8) * F^{-4} * \sin x^4 * \pi^{-4} - 1/81/(mass(3) - mass(8)) * ln(1) * ln(8) * F^{-4} * \sin x^6 * \pi^{-4} \\
& + 512/27/(mass(3) - mass(8)) * ln(3) * F^{-4} * \sin x^2 * L8r * \pi^{-2} + 512/9/(mass(3) - mass(8)) * ln(3) * F^{-4} * \sin x^2 * L7r * \pi^{-2} \\
& - 512/81/(mass(3) - mass(8)) * ln(3) * F^{-4} * \sin x^4 * L8r * \pi^{-2} - 1024/81/(mass(3) - mass(8)) * ln(3) * F^{-4} * \sin x^4 * L7r * \pi^{-2} \\
& - 1024/27/(mass(3) - mass(8)) * ln(3) * F^{-4} * \sin x^6 * L8r * \pi^{-2} - 1024/27/(mass(3) - mass(8)) * ln(3) * F^{-4} * \sin x^6 * L7r * \pi^{-2} \\
& - 7/1944/(mass(3) - mass(8)) * ln(3)^2 * F^{-4} * \sin x^2 * \pi^{-4} - 4/243/(mass(3) - mass(8)) * ln(3)^2 * F^{-4} * \sin x^4 * \pi^{-4} \\
& + 4/243/(mass(3) - mass(8)) * ln(3)^2 * F^{-4} * \sin x^6 * \pi^{-4} - 1/243/(mass(3) - mass(8)) * ln(3)^2 * F^{-4} * \sin x^8 * \pi^{-4} \\
& + 47/5184/(mass(3) - mass(8)) * ln(3) * ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - 17/648/(mass(3) - mass(8)) * ln(3) * ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} \\
& + 1/54/(mass(3) - mass(8)) * ln(3) * ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^5 * \cos x * \pi^{-4} - 11/648/(mass(3) - mass(8)) * ln(3) * ln(4) * F^{-4} * \sin x^2 * \pi^{-4} \\
& + 7/648/(mass(3) - mass(8)) * ln(3) * ln(4) * F^{-4} * \sin x^4 * \pi^{-4} + 1/162/(mass(3) - mass(8)) * ln(3) * ln(4) * F^{-4} * \sin x^6 * \pi^{-4} \\
& - 47/5184/(mass(3) - mass(8)) * ln(3) * ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 17/648/(mass(3) - mass(8)) * ln(3) * ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} \\
& - 1/54/(mass(3) - mass(8)) * ln(3) * ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x^5 * \cos x * \pi^{-4} - 11/648/(mass(3) - mass(8)) * ln(3) * ln(6) * F^{-4} * \sin x^2 * \pi^{-4} \\
& + 7/648/(mass(3) - mass(8)) * ln(3) * ln(6) * F^{-4} * \sin x^4 * \pi^{-4} + 1/162/(mass(3) - mass(8)) * ln(3) * ln(6) * F^{-4} * \sin x^6 * \pi^{-4} \\
& - 17/972/(mass(3) - mass(8)) * ln(3) * ln(8) * F^{-4} * \sin x^2 * \pi^{-4} + 25/972/(mass(3) - mass(8)) * ln(3) * ln(8) * F^{-4} * \sin x^4 * \pi^{-4} \\
& - 4/243/(mass(3) - mass(8)) * ln(3) * ln(8) * F^{-4} * \sin x^6 * \pi^{-4} + 2/243/(mass(3) - mass(8)) * ln(3) * ln(8) * F^{-4} * \sin x^8 * \pi^{-4} \\
& - 112/9/(mass(3) - mass(8)) * ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L8r * \pi^{-2} - 112/3/(mass(3) - mass(8)) * ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L7r * \pi^{-2} \\
& + 128/9/(mass(3) - mass(8)) * ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * L8r * \pi^{-2} + 128/3/(mass(3) - mass(8)) * ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * L7r * \pi^{-2} \\
& + 896/27/(mass(3) -
\end{aligned}$$

$$\begin{aligned}
& \text{mass}(8) * \ln(4) * F^{-4} * \sin^2 * L8r * \pi^{-2} + 896/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sin^2 * L7r * \pi^{-2} - 896/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sin^4 * L8r * \pi^{-2} \\
& - 896/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sin^4 * L7r * \pi^{-2} + 1/192 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} \\
& - 1/6912 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \pi^{-4} - 1/54 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sin^2 * \pi^{-4} + 1/54 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sin^4 * \pi^{-4} \\
& + 1/3456 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(6) * F^{-4} * \pi^{-4} - 1/54 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(6) * F^{-4} * \sin^2 * \pi^{-4} + 1/54 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(6) * F^{-4} * \sin^4 * \pi^{-4} \\
& + 37/5184 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} + 5/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos^2 * \pi^{-4} \\
& - 1/54 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^5 * \cos^2 * \pi^{-4} - 17/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \sin^2 * \pi^{-4} + 7/216 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \sin^4 * \pi^{-4} \\
& - 1/162 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \sin^6 * \pi^{-4} + 112/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L8r * \pi^{-2} + 112/3 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * L7r * \pi^{-2} \\
& - 128/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos^2 * L8r * \pi^{-2} - 128/3 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos^2 * L7r * \pi^{-2} + 896/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sin^2 * L8r * \pi^{-2} + 896/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sin^2 * L7r * \pi^{-2} \\
& - 896/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sin^4 * L8r * \pi^{-2} - 896/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sin^4 * L7r * \pi^{-2} - 1/192 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} - 1/6912 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \pi^{-4} \\
& - 1/54 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sin^2 * \pi^{-4} + 1/54 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sin^4 * \pi^{-4} - 37/5184 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} - 5/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos^2 * \pi^{-4} + 1/54 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^5 * \cos^2 * \pi^{-4} - 17/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin^2 * \pi^{-4} + 7/216 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin^4 * \pi^{-4} \\
& - 1/162 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin^6 * \pi^{-4} + 2560/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^2 * L8r * \pi^{-2} + 2560/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^2 * L7r * \pi^{-2} - 3584/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^4 * L8r * \pi^{-2} + 1024/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^4 * L7r * \pi^{-2} + 1024/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^6 * L8r * \pi^{-2} + 1024/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^6 * L7r * \pi^{-2} - 23/1944 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^2 * \pi^{-4} + 31/1944 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^4 * \pi^{-4} - 1/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^8 * \pi^{-4} + 83/6144 / (\text{mass}(4)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} - 1/1024 / (\text{mass}(4)) * \ln(4) * F^{-4} * \pi^{-4} + 5/6144 / (\text{mass}(4)) * \ln(4) * F^{-4} * \sin^2 * \pi^{-4} + 83/6144 / (\text{mass}(5)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} - 1/1024 / (\text{mass}(5)) * \ln(4) * F^{-4} * \pi^{-4} + 5/6144 / (\text{mass}(5)) * \ln(4) * F^{-4} * \sin^2 * \pi^{-4} - 83/6144 / (\text{mass}(6)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} - 1/1024 / (\text{mass}(6)) * \ln(6) * F^{-4} * \pi^{-4} + 5/6144 / (\text{mass}(6)) * \ln(6) * F^{-4} * \sin^2 * \pi^{-4} - 83/6144 / (\text{mass}(7)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} - 1/1024 / (\text{mass}(7)) * \ln(6) * F^{-4} * \pi^{-4} + 5/6144 / (\text{mass}(7)) * \ln(6) * F^{-4} * \sin^2 * \pi^{-4} - 439/31104 / (\text{mass}(8)) * \ln(8) * F^{-4} * \pi^{-4} + 359/31104 / (\text{mass}(8)) * \ln(8) * F^{-4} * \sin^2 * \pi^{-4} + 5/1944 / (\text{mass}(8)) * \ln(8) * F^{-4} * \sin^4 * \pi^{-4})
\end{aligned}$$

$$\begin{aligned}
& + \text{mpp2}^3 * (- 1781/3981312 * F^{-4} \pi^{-4} - 91/2985984 * F^{-4} \pi^{-2} - 1/9 * F^{-4} L8r * \pi^{-2} + 28/27 * F^{-4} L7r * \pi^{-2} - 17/27 * F^{-4} L6r * \pi^{-2} + 37/162 * F^{-4} L5r * \pi^{-2} + 128/3 * F^{-4} L5r * L8r + 1024/9 * F^{-4} L5r * L7r - 128/9 * F^{-4} L5r * L6r - 64/27 * F^{-4} L5r^2 + 17/54 * F^{-4} L4r * \pi^{-2} - 128 * F^{-4} L4r * L8r - 1024/3 * F^{-4} L4r * L7r + 128/3 * F^{-4} L4r * L6r + 128/9 * F^{-4} L4r * L5r - 64/3 * F^{-4} L4r^2 - 5/108 * F^{-4} L3r * \pi^{-2} - 29/216 * F^{-4} L2r * \pi^{-2} - 1/108 * F^{-4} L1r * \pi^{-2} + 32 * F^{-4} CC32 - 32/3 * F^{-4} CC31 - 16 * F^{-4} CC21 + 16 * F^{-4} CC20 - 16 * F^{-4} CC19 + 128/9 * F^{-4} CC18 + 16/3 * F^{-4} CC17 + 16 * F^{-4} CC16 - 16/9 * F^{-4} CC15 + 16/3 * F^{-4} CC14 - 32/9 * F^{-4} CC13 + 32/27 * F^{-4} CC12 - 6793/995328 * F^{-4} \sin^2 \pi^{-4} - 1163/746496 * F^{-4} \sin^2 \pi^{-2} + 4/9 * F^{-4} \sin^2 L8r * \pi^{-2} - 40/27 * F^{-4} \sin^2 L7r * \pi^{-2} + 32/27 * F^{-4} \sin^2 L6r * \pi^{-2} - 38/81 * F^{-4} \sin^2 L5r * \pi^{-2} - 512/3 * F^{-4} \sin^2 L5r * L8r - 1024/9 * F^{-4} \sin^2 L5r * L7r - 1024/9 * F^{-4} \sin^2 L5r * L6r + 1792/27 * F^{-4} \sin^2 L5r^2 - 16/27 * F^{-4} \sin^2 L4r * \pi^{-2} + 1024/3 * F^{-4} \sin^2 L4r * L7r - 512/3 * F^{-4} \sin^2 L4r * L6r + 1024/9 * F^{-4} \sin^2 L4r * L5r + 256/3 * F^{-4} \sin^2 L4r^2 + 19/108 * F^{-4} \sin^2 L3r * \pi^{-2} + 35/54 * F^{-4} \sin^2 L2r * \pi^{-2} + 7/27 * F^{-4} \sin^2 L1r * \pi^{-2} + 128/3 * F^{-4} \sin^2 CC31 + 64 * F^{-4} \sin^2 CC21 + 64 * F^{-4} \sin^2 CC20 + 64 * F^{-4} \sin^2 CC19 - 128/9 * F^{-4} \sin^2 CC18 - 64/3 * F^{-4} \sin^2 CC17 - 64 * F^{-4} \sin^2 CC16 - 128/9 * F^{-4} \sin^2 CC15 - 64/3 * F^{-4} \sin^2 CC14 - 256/9 * F^{-4} \sin^2 CC13 - 896/27 * F^{-4} \sin^2 CC12 - 1/864 * \ln(1) * F^{-4} \pi^{-4} - 5/3 * \ln(1) * F^{-4} L8r * \pi^{-2} - 8/3 * \ln(1) * F^{-4} L7r * \pi^{-2} + 7/18 * \ln(1) * F^{-4} L5r * \pi^{-2} - 1/6 * \ln(1) * F^{-4} L4r * \pi^{-2} + 1/6 * \ln(1) * F^{-4} L3r * \pi^{-2} + 1/6 * \ln(1) * F^{-4} L2r * \pi^{-2} + 2/3 * \ln(1) * F^{-4} L1r * \pi^{-2} - 157/20736 * \ln(1) * F^{-4} \sin^2 \pi^{-4} + 136/27 * \ln(1) * F^{-4} \sin^2 L8r * \pi^{-2} + 88/9 * \ln(1) * F^{-4} \sin^2 L7r * \pi^{-2} - 8/9 * \ln(1) * F^{-4} \sin^2 L5r * \pi^{-2} + 2/3 * \ln(1) * F^{-4} \sin^2 L4r * \pi^{-2} - 7/6 * \ln(1) * F^{-4} \sin^2 L3r * \pi^{-2} - 2/3 * \ln(1) * F^{-4} \sin^2 L2r * \pi^{-2} - 8/3 * \ln(1) * F^{-4} \sin^2 L1r * \pi^{-2} + 1/324 * \ln(1) * F^{-4} \sin^4 \pi^{-4} - 64/27 * \ln(1) * F^{-4} \sin^4 L8r * \pi^{-2} - 64/9 * \ln(1) * F^{-4} \sin^4 L7r * \pi^{-2} + 1/2304 * \ln(1)^2 * F^{-4} \sin^4 \pi^{-4} + 1/288 * \ln(1)^2 * F^{-4} \sin^4 L7r * \pi^{-2} - 1/512 * \ln(1) * \ln(3) * F^{-4} \pi^{-4} + 13/10368 * \ln(1) * \ln(3) * F^{-4} \sin^2 \pi^{-4} + 55/5184 * \ln(1) * \ln(3) * F^{-4} \sin^2 L8r * \pi^{-2} - 1/108 * \ln(1) * \ln(3) * F^{-4} \sin^2 L7r * \pi^{-2} - 17/4608 * \ln(1) * \ln(4) * F^{-4} \sqrt{3}^{-1} * \sin^3 \cos^2 \pi^{-4} + 1/288 * \ln(1) * \ln(4) * F^{-4} \sqrt{3}^{-1} * \sin^3 \cos^2 \pi^{-4} + 1/864 * \ln(1) * \ln(4) * F^{-4} \sin^2 \pi^{-4} - 1/864 * \ln(1) * \ln(4) * F^{-4} \sin^2 L8r * \pi^{-2} + 17/4608 * \ln(1) * \ln(6) * F^{-4} \sqrt{3}^{-1} * \sin^3 \cos^2 \pi^{-4} - 1/288 * \ln(1) * \ln(6) * F^{-4} \sqrt{3}^{-1} * \sin^3 \cos^2 \pi^{-4} + 1/864 * \ln(1) * \ln(6) * F^{-4} \sin^2 \pi^{-4} - 1/864 * \ln(1) * \ln(6) * F^{-4} \sin^2 L8r * \pi^{-2} - 1/1536 * \ln(1) * \ln(8) * F^{-4} \pi^{-4} - 1/144 * \ln(1) * \ln(8) * F^{-4} \sin^2 \pi^{-4} - 13/1728 * \ln(1) * \ln(8) * F^{-4} \sin^2 L8r * \pi^{-2} + 1/108 * \ln(1) * \ln(8) * F^{-4} \sin^2 L7r * \pi^{-2} - 1/1728 * \ln(3) * F^{-4} \pi^{-4} - 5/6 * \ln(3) * F^{-4} L8r * \pi^{-2} - 4/3 * \ln(3) * F^{-4} L7r * \pi^{-2} + 7/36 * \ln(3) * F^{-4} L5r * \pi^{-2} - 1/12 * \ln(3) * F^{-4} L4r * \pi^{-2} + 1/12 * \ln(3) * F^{-4} L3r * \pi^{-2} + 1/12 * \ln(3) * F^{-4} L2r * \pi^{-2} + 1/3 * \ln(3) * F^{-4} L1r * \pi^{-2} + 7/3888 * \ln(3) * F^{-4} \sin^2 \pi^{-4} + 472/81 * \ln(3) * F^{-4} \sin^2 L8r * \pi^{-2} + 356/27 * \ln(3) * F^{-4} \sin^2 L7r * \pi^{-2} + 32/27 * \ln(3) * F^{-4} \sin^2 L6r * \pi^{-2} - 58/81 * \ln(3) * F^{-4} \sin^2 L5r * \pi^{-2} - 7/9 * \ln(3) * F^{-4} \sin^2 L4r * \pi^{-2} - 1/9 * \ln(3) * F^{-4} \sin^2 L3r * \pi^{-2} - 1/9 * \ln(3) * F^{-4} \sin^2 L2r * \pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2 - 4/9*\ln(3)*F^{-4}*\sin x^2*L1r*\pi^{-2} - 1/972*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} - \\
& 304/27*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 832/27*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} \\
& - 32/27*\ln(3)*F^{-4}*\sin x^4*L6r*\pi^{-2} + 40/81*\ln(3)*F^{-4}*\sin x^4*L5r*\pi^{-2} \\
& + 8/9*\ln(3)*F^{-4}*\sin x^4*L4r*\pi^{-2} + 512/81*\ln(3)*F^{-4}*\sin x^6*L8r*\pi^{-2} \\
& + 512/27*\ln(3)*F^{-4}*\sin x^6*L7r*\pi^{-2} + 1/2048*\ln(3)^2*F^{-4}*\pi^{-4} \\
& - 875/248832*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} + 355/31104*\ln(3)^2*F^{-4} \\
& * \sin x^4*\pi^{-4} - 193/15552*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} + 1/243*\ln(3)^2*F^{-4} \\
& * \sin x^8*\pi^{-4} - 41/10368*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 103/10368*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/216*\ln(3)*\ln(4)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 1/10368*\ln(3)*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} + \\
& 5/3456*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} - 1/648*\ln(3)*\ln(4)*F^{-4}*\sin x^6*\pi^{-4} \\
& + 41/10368*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 103/10368*\ln(3)*\ln(6)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/216*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} \\
& + 1/10368*\ln(3)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} + 5/3456*\ln(3)*\ln(6)*F^{-4} \\
& * \sin x^4*\pi^{-4} - 1/648*\ln(3)*\ln(6)*F^{-4}*\sin x^6*\pi^{-4} - 1/3072*\ln(3)*\ln(8)*F^{-4} \\
& * \pi^{-4} + 67/124416*\ln(3)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 5/576*\ln(3)*\ln(8)*F^{-4} \\
& * \sin x^4*\pi^{-4} + 43/2592*\ln(3)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 2/243*\ln(3)*\ln(8)*F^{-4} \\
& * \sin x^8*\pi^{-4} - 5/41472*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 16/27*\ln(4)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 16/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} \\
& + 1/648*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 32/27*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x^3*\cos x*L8r*\pi^{-2} - 32/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} \\
& + 1/648*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} - 32/27*\ln(4)*F^{-4}*\sin x^2*L8r*\pi^{-2} \\
& - 32/9*\ln(4)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 1/648*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + \\
& 32/27*\ln(4)*F^{-4}*\sin x^4*L8r*\pi^{-2} + 32/9*\ln(4)*F^{-4}*\sin x^4*L7r*\pi^{-2} \\
& + 1/3456*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/1728*\ln(4)^2*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/1728*\ln(4)^2*F^{-4}*\sin x^2*\pi^{-4} - \\
& 1/1728*\ln(4)^2*F^{-4}*\sin x^4*\pi^{-4} + 13/6912*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} - 29/3456*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 1/216*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 5/3456*\ln(4)*\ln(8)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 31/10368*\ln(4)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 1/648*\ln(4)*\ln(8)*F^{-4} \\
& * \sin x^6*\pi^{-4} + 5/41472*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 16/27*\ln(6)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 16/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} \\
& - 1/648*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 32/27*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x^3*\cos x*L8r*\pi^{-2} + 32/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} \\
& + 1/648*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} - 32/27*\ln(6)*F^{-4}*\sin x^2*L8r*\pi^{-2} \\
& - 32/9*\ln(6)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 1/648*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + \\
& 32/27*\ln(6)*F^{-4}*\sin x^4*L8r*\pi^{-2} + 32/9*\ln(6)*F^{-4}*\sin x^4*L7r*\pi^{-2} \\
& - 1/3456*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/1728*\ln(6)^2*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/1728*\ln(6)^2*F^{-4}*\sin x^2*\pi^{-4} - \\
& 1/1728*\ln(6)^2*F^{-4}*\sin x^4*\pi^{-4} - 13/6912*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} + 29/3456*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/216*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 5/3456*\ln(6)*\ln(8)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 31/10368*\ln(6)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 1/648*\ln(6)*\ln(8)*F^{-4} \\
& * \sin x^6*\pi^{-4} - 19/62208*\ln(8)*F^{-4}*\pi^{-4} + 19/18*\ln(8)*F^{-4} * L8r*\pi^{-2} + \\
& 68/27*\ln(8)*F^{-4} * L7r*\pi^{-2} - 4/27*\ln(8)*F^{-4} * L6r*\pi^{-2} - 35/324*\ln(8)*F^{-4} \\
& * L5r*\pi^{-2} + 17/108*\ln(8)*F^{-4} * L4r*\pi^{-2} + 1/36*\ln(8)*F^{-4} * L3r*\pi^{-2} +
\end{aligned}$$

$$\begin{aligned}
& 1/18*\ln(8)*F^{-4}*L2r*\pi^{-2} + 1/18*\ln(8)*F^{-4}*L1r*\pi^{-2} + 1/432*\ln(8)*F^{-4}* \\
& \sin x^2*\pi^{-4} - 688/81*\ln(8)*F^{-4}*\sin x^2*L8r*\pi^{-2} - 388/27*\ln(8)*F^{-4}* \\
& \sin x^2*L7r*\pi^{-2} - 136/27*\ln(8)*F^{-4}*\sin x^2*L6r*\pi^{-2} + 50/27*\ln(8)*F^{-4}* \\
& \sin x^2*L5r*\pi^{-2} + 67/27*\ln(8)*F^{-4}*\sin x^2*L4r*\pi^{-2} - 7/9*\ln(8)*F^{-4}* \\
& \sin x^2*L3r*\pi^{-2} - 14/9*\ln(8)*F^{-4}*\sin x^2*L2r*\pi^{-2} - 14/9*\ln(8)*F^{-4}* \\
& \sin x^2*L1r*\pi^{-2} + 1/972*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 304/27*\ln(8)*F^{-4}* \\
& \sin x^4*L8r*\pi^{-2} + 832/27*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 32/27*\ln(8)*F^{-4}* \\
& \sin x^4*L6r*\pi^{-2} - 40/81*\ln(8)*F^{-4}*\sin x^4*L5r*\pi^{-2} - 8/9*\ln(8)*F^{-4}* \\
& \sin x^4*L4r*\pi^{-2} - 512/81*\ln(8)*F^{-4}*\sin x^6*L8r*\pi^{-2} - 512/27*\ln(8)*F^{-4}* \\
& \sin x^6*L7r*\pi^{-2} - 43/165888*\ln(8)^2*F^{-4}*\pi^{-4} + 125/27648*\ln(8)^2*F^{-4}* \\
& \sin x^2*\pi^{-4} - 85/31104*\ln(8)^2*F^{-4}*\sin x^4*\pi^{-4} - 65/15552*\ln(8)^2*F^{-4}* \\
& \sin x^6*\pi^{-4} + 1/243*\ln(8)^2*F^{-4}*\sin x^8*\pi^{-4}) \\
& + \text{mpp}2^3*\text{mkp}2 * (- 5/9216/(\text{mass}(1))*\ln(1)^2*F^{-4}*\pi^{-4} - 1/768/(\text{mass}(1))*\ln(1)^2*F^{-4}* \\
& \sin x^2*\pi^{-4} - 13/9216/(\text{mass}(2))*\ln(1)^2*F^{-4}*\pi^{-4} + 1/768/(\text{mass}(2))*\ln(1)^2*F^{-4}* \\
& \sin x^2*\pi^{-4} - 1/1024/(\text{mass}(3))*\ln(3)^2*F^{-4}*\pi^{-4} + 1223/373248/(\text{mass}(3))*\ln(3)^2*F^{-4}* \\
& \sin x^2*\pi^{-4} - 25/11664/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} + 1048576/81/(\text{mass}(3) \\
& - \text{mass}(8))*F^{-4}*\sin x^2*L8r^2 + 2097152/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}* \\
& \sin x^2*L7r*L8r + 1048576/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^2*L7r^2 - \\
& 1048576/81/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^4*L8r^2 - 2097152/27/(\text{mass}(3) \\
& - \text{mass}(8))*F^{-4}*\sin x^4*L7r*L8r - 1048576/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}* \\
& \sin x^4*L7r^2 - 512/27/(\text{mass}(3) - \text{mass}(8))*\ln(1)*F^{-4}*\sin x^2*L8r*\pi^{-2} - \\
& 512/9/(\text{mass}(3) - \text{mass}(8))*\ln(1)*F^{-4}*\sin x^2*L7r*\pi^{-2} + 512/27/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(1)*F^{-4}*\sin x^4*L8r*\pi^{-2} + 512/9/(\text{mass}(3) - \text{mass}(8))*\ln(1)*F^{-4}* \\
& \sin x^4*L7r*\pi^{-2} + 1/108/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(3)*F^{-4}*\sin x^2*\pi^{-4} \\
& - 1/324/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} - 1/162/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(1)*\ln(3)*F^{-4}*\sin x^6*\pi^{-4} - 1/288/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(4)*F^{-4}* \\
& \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/54/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(4)*F^{-4}* \\
& \sin x^2*\pi^{-4} - 1/54/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} \\
& + 1/288/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 1/54/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} - 1/54/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(1)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + 5/324/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(8)*F^{-4}* \\
& \sin x^2*\pi^{-4} - 7/324/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + \\
& 1/162/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 512/27/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(3)*F^{-4}*\sin x^2*L8r*\pi^{-2} - 512/9/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}* \\
& \sin x^2*L7r*\pi^{-2} + 5632/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} \\
& - 2 + 5632/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 1024/243/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^6*L8r*\pi^{-2} - 1024/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}* \\
& \sin x^6*L7r*\pi^{-2} + 19/2916/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} \\
& - 19/2916/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} - 2/729/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} + 2/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}* \\
& \sin x^8*\pi^{-4} + 7/7776/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& *\sin x*\cos x*\pi^{-4} - 1/972/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& *\sin x^3*\cos x*\pi^{-4} - 1/324/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& *\sin x^5*\cos x*\pi^{-4} + 1/72/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} \\
& - 41/1944/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + 7/972/(\text{mass}(3)
\end{aligned}$$

$$\begin{aligned}
& 4*\sin x^6*L7r*\pi^{-2} + 11/2916/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} \\
& + 5/2916/(mass(3) - mass(8))*\ln(8)^2*F^{-4}*\sin x^4*\pi^{-4} - 2/243/(mass(3) - \\
& mass(8))*\ln(8)^2*F^{-4}*\sin x^6*\pi^{-4} + 2/729/(mass(3) - mass(8))*\ln(8)^2*F^{-4} \\
& * \sin x^8*\pi^{-4} - 5/3072/(mass(4))*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 5/3072/(mass(5))*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 5/3072/(mass(6))*\ln(6)^2*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 5/3072/(mass(7))*\ln(6)^2*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} + 559/186624/(mass(8))*\ln(8)^2*F^{-4}*\pi^{-4} - 959/186624/(mass(8))*\ln(8)^2*F^{-4} \\
& * \sin x^2*\pi^{-4} + 25/11664/(mass(8))*\ln(8)^2*F^{-4}*\sin x^4*\pi^{-4}) \\
& + mpp2^4 * (- 3/4096/(mass(1))*\ln(1)^2*F^{-4}*\pi^{-4} - 25/9216/(mass(1))*\ln(1)^2*F^{-4} \\
& * \sin x^2*\pi^{-4} + 5/36864/(mass(2))*\ln(1)^2*F^{-4}*\pi^{-4} - 1/9216/(mass(2))*\ln(1)^2*F^{-4} \\
& * \sin x^2*\pi^{-4} - 11/36864/(mass(3))*\ln(3)^2*F^{-4}*\pi^{-4} + 259/373248/(mass(3))*\ln(3)^2*F^{-4} \\
& * \sin x^2*\pi^{-4} - 5/11664/(mass(3))*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} - 262144/81/(mass(3) \\
& - mass(8))*F^{-4}*\sin x^2*L8r^2 - 524288/27/(mass(3) - mass(8))*F^{-4} \\
& * \sin x^2*L7r*L8r - 262144/9/(mass(3) - mass(8))*F^{-4}*\sin x^2*L7r^2 + \\
& 262144/81/(mass(3) - mass(8))*F^{-4}*\sin x^4*L8r^2 + 524288/27/(mass(3) \\
& - mass(8))*F^{-4}*\sin x^4*L7r*L8r + 262144/9/(mass(3) - mass(8))*F^{-4} \\
& * \sin x^4*L7r^2 + 256/27/(mass(3) - mass(8))*\ln(1)*F^{-4}*\sin x^2*L8r*\pi^{-2} + \\
& 256/9/(mass(3) - mass(8))*\ln(1)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 256/27/(mass(3) - \\
& mass(8))*\ln(1)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 256/9/(mass(3) - mass(8))*\ln(1)*F^{-4} \\
& * \sin x^4*L7r*\pi^{-2} - 1/144/(mass(3) - mass(8))*\ln(1)^2*F^{-4}*\sin x^2*\pi^{-4} \\
& + 1/144/(mass(3) - mass(8))*\ln(1)^2*F^{-4}*\sin x^4*\pi^{-4} - 2/243/(mass(3) - \\
& mass(8))*\ln(1)*\ln(3)*F^{-4}*\sin x^2*\pi^{-4} + 7/486/(mass(3) - mass(8))*\ln(1)*\ln(3)*F^{-4} \\
& * \sin x^4*\pi^{-4} - 1/162/(mass(3) - mass(8))*\ln(1)*\ln(3)*F^{-4}*\sin x^6*\pi^{-4} \\
& - 1/288/(mass(3) - mass(8))*\ln(1)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 1/144/(mass(3) - mass(8))*\ln(1)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 1/432/(mass(3) - mass(8))*\ln(1)*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} + 1/432/(mass(3) - \\
& mass(8))*\ln(1)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + 1/288/(mass(3) - mass(8))*\ln(1)*\ln(6)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/144/(mass(3) - mass(8))*\ln(1)*\ln(6)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/432/(mass(3) - mass(8))*\ln(1)*\ln(6)*F^{-4} \\
& * \sin x^2*\pi^{-4} + 1/432/(mass(3) - mass(8))*\ln(1)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} - \\
& 1/243/(mass(3) - mass(8))*\ln(1)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 1/486/(mass(3) - \\
& mass(8))*\ln(1)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 1/162/(mass(3) - mass(8))*\ln(1)*\ln(8)*F^{-4} \\
& * \sin x^6*\pi^{-4} + 512/81/(mass(3) - mass(8))*\ln(3)*F^{-4}*\sin x^2*L8r*\pi^{-2} + \\
& 512/27/(mass(3) - mass(8))*\ln(3)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 2560/243/(mass(3) \\
& - mass(8))*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 2560/81/(mass(3) - mass(8))*\ln(3)*F^{-4} \\
& * \sin x^4*L7r*\pi^{-2} + 1024/243/(mass(3) - mass(8))*\ln(3)*F^{-4}*\sin x^6*L8r*\pi^{-2} \\
& + 1024/81/(mass(3) - mass(8))*\ln(3)*F^{-4}*\sin x^6*L7r*\pi^{-2} - 17/5832/(mass(3) \\
& - mass(8))*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} + 41/5832/(mass(3) - mass(8))*\ln(3)^2*F^{-4} \\
& * \sin x^4*\pi^{-4} - 4/729/(mass(3) - mass(8))*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} + \\
& 1/729/(mass(3) - mass(8))*\ln(3)^2*F^{-4}*\sin x^8*\pi^{-4} - 5/3888/(mass(3) - \\
& mass(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 11/1944/(mass(3) - \\
& mass(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/324/(mass(3) - \\
& mass(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 1/486/(mass(3) - \\
& mass(8))*\ln(3)*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} + 1/324/(mass(3) - mass(8))*\ln(3)*\ln(4)*F^{-4} \\
& * \sin x^4*\pi^{-4} - 1/972/(mass(3) - mass(8))*\ln(3)*\ln(4)*F^{-4}*\sin x^6*\pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& + 5/3888/(\text{mass}(3) - \text{mass}(8)) \ln(3) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - \\
& 11/1944/(\text{mass}(3) - \text{mass}(8)) \ln(3) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} \\
& + 1/324/(\text{mass}(3) - \text{mass}(8)) \ln(3) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x^5 \cos x \pi^{-4} - \\
& 1/486/(\text{mass}(3) - \text{mass}(8)) \ln(3) \ln(6) F^{-4} \sin x^2 \pi^{-4} + 1/324/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(3) \ln(6) F^{-4} \sin x^4 \pi^{-4} - 1/972/(\text{mass}(3) - \text{mass}(8)) \ln(3) \ln(6) F^{-4} \\
& \sin x^6 \pi^{-4} - 7/2916/(\text{mass}(3) - \text{mass}(8)) \ln(3) \ln(8) F^{-4} \sin x^2 \pi^{-4} \\
& - 1/2916/(\text{mass}(3) - \text{mass}(8)) \ln(3) \ln(8) F^{-4} \sin x^4 \pi^{-4} + 4/729/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(3) \ln(8) F^{-4} \sin x^6 \pi^{-4} - 2/729/(\text{mass}(3) - \text{mass}(8)) \ln(3) \ln(8) F^{-4} \\
& \sin x^8 \pi^{-4} + 64/27/(\text{mass}(3) - \text{mass}(8)) \ln(4) F^{-4} \sqrt{3}^{-1} \sin x \cos x L8r \pi^{-2} \\
& - 2 + 64/9/(\text{mass}(3) - \text{mass}(8)) \ln(4) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x L7r \pi^{-2} \\
& - 128/27/(\text{mass}(3) - \text{mass}(8)) \ln(4) F^{-4} \sqrt{3}^{-1} \sin x^5 \cos x L8r \pi^{-2} \\
& - 128/9/(\text{mass}(3) - \text{mass}(8)) \ln(4) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x L7r \pi^{-2} \\
& + 128/81/(\text{mass}(3) - \text{mass}(8)) \ln(4) F^{-4} \sin x^2 L8r \pi^{-2} + \\
& 128/27/(\text{mass}(3) - \text{mass}(8)) \ln(4) F^{-4} \sin x^2 L7r \pi^{-2} - 128/81/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(4) F^{-4} \sin x^4 L8r \pi^{-2} - 128/27/(\text{mass}(3) - \text{mass}(8)) \ln(4) F^{-4} \\
& \sin x^4 L7r \pi^{-2} - 1/1728/(\text{mass}(3) - \text{mass}(8)) \ln(4)^2 F^{-4} \sqrt{3}^{-1} \\
& \sin x \cos x \pi^{-4} + 1/864/(\text{mass}(3) - \text{mass}(8)) \ln(4)^2 F^{-4} \sqrt{3}^{-1} \\
& \sin x^3 \cos x \pi^{-4} + 1/2592/(\text{mass}(3) - \text{mass}(8)) \ln(4)^2 F^{-4} \sin x^2 \pi^{-4} \\
& - 1/2592/(\text{mass}(3) - \text{mass}(8)) \ln(4)^2 F^{-4} \sin x^4 \pi^{-4} - 1/648/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(4) \ln(6) F^{-4} \sin x^2 \pi^{-4} + 1/648/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(6) F^{-4} \\
& \sin x^4 \pi^{-4} - 7/3888/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \\
& \sin x \cos x \pi^{-4} + 1/1944/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \\
& \sin x^3 \cos x \pi^{-4} + 1/324/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \\
& \sin x^5 \cos x \pi^{-4} - 1/972/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sin x^4 \pi^{-4} \\
& + 1/972/(\text{mass}(3) - \text{mass}(8)) \ln(4) \ln(8) F^{-4} \sin x^6 \pi^{-4} - 64/27/(\text{mass}(3) \\
& - \text{mass}(8)) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x \cos x L8r \pi^{-2} - 64/9/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x L7r \pi^{-2} + 128/27/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x^5 \cos x L8r \pi^{-2} + 128/9/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x L7r \pi^{-2} + 128/81/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(6) F^{-4} \sin x^2 L8r \pi^{-2} + 128/27/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \\
& \sin x^4 L8r \pi^{-2} - 128/81/(\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sin x^4 L7r \pi^{-2} \\
& + 1/1728/(\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 1/864/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} + 1/2592/(\text{mass}(3) - \\
& \text{mass}(8)) \ln(6)^2 F^{-4} \sin x^2 \pi^{-4} - 1/2592/(\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \\
& \sin x^4 \pi^{-4} + 7/3888/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \\
& \sin x \cos x \pi^{-4} - 1/1944/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \\
& \sin x^3 \cos x \pi^{-4} - 1/324/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \\
& \sin x^5 \cos x \pi^{-4} - 1/972/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sin x^4 \pi^{-4} \\
& + 1/972/(\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sin x^6 \pi^{-4} + 512/243/(\text{mass}(3) \\
& - \text{mass}(8)) \ln(8) F^{-4} \sin x^2 L8r \pi^{-2} + 512/81/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \\
& \sin x^2 L7r \pi^{-2} + 512/243/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin x^4 L8r \pi^{-2} \\
& - 2 + 512/81/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin x^4 L7r \pi^{-2} - 1024/243/(\text{mass}(3) \\
& - \text{mass}(8)) \ln(8) F^{-4} \sin x^6 L8r \pi^{-2} - 1024/81/(\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \\
& \sin x^6 L7r \pi^{-2} - 1/5832/(\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin x^2 \pi^{-4} \\
& - 7/5832/(\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin x^4 \pi^{-4} + 1/729/(\text{mass}(3)
\end{aligned}$$

$$\begin{aligned}
& - \text{mass}(8) * \ln(8)^2 * F^{-4} * \sin x^8 * \pi^{-4} - 709/2985984 / (\text{mass}(8)) * \ln(8)^2 * F^{-4} * \pi^{-4} - 1195/186624 / (\text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin x^2 * \pi^{-4} + 5/11664 / (\text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin x^4 * \pi^{-4}) \\
& + \text{mud} * \text{mkp2} * (- 8/3 * \text{HH1b}(1,2,3, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 32/9 * \text{HH1b}(1,2,3, \text{plext.plext}) * F^{-4} * \sin x^2 + 32/9 * \text{HH1b}(1,2,3, \text{plext.plext}) * F^{-4} * \sin x^4 + 32/9 * \text{HH1b}(1,2,8, \text{plext.plext}) * F^{-4} * \sin x^2 - 32/9 * \text{HH1b}(1,2,8, \text{plext.plext}) * F^{-4} * \sin x^4 + 4 * \text{HH1b}(1,5,6, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x + 2/3 * \text{HH1b}(1,5,6, \text{plext.plext}) * F^{-4} - 8/3 * \text{HH1b}(2,1,3, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 32/9 * \text{HH1b}(2,1,3, \text{plext.plext}) * F^{-4} * \sin x^2 + 32/9 * \text{HH1b}(2,1,3, \text{plext.plext}) * F^{-4} * \sin x^4 + 32/9 * \text{HH1b}(2,1,8, \text{plext.plext}) * F^{-4} * \sin x^2 - 32/9 * \text{HH1b}(2,1,8, \text{plext.plext}) * F^{-4} * \sin x^4 + 4 * \text{HH1b}(2,4,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x + 2/3 * \text{HH1b}(2,4,7, \text{plext.plext}) * F^{-4} + 32/9 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 16/9 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x + 1/9 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} + 16/9 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} * \sin x^2 - 16/9 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} * \sin x^4 - 8/9 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x + 16/9 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x - 1/9 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} + 16/9 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} * \sin x^2 - 16/9 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} * \sin x^4 + 16/3 * \text{HH1b}(4,2,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x + 4/3 * \text{HH1b}(4,2,7, \text{plext.plext}) * F^{-4} + 20/9 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 16/9 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x - 35/9 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} + 64/9 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} * \sin x^2 - 16/9 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} * \sin x^4 + 16/3 * \text{HH1b}(5,1,6, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x + 4/3 * \text{HH1b}(5,1,6, \text{plext.plext}) * F^{-4} + 20/9 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 16/9 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x - 35/9 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} + 64/9 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} * \sin x^2 - 16/9 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} * \sin x^4 - 116/9 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x + 16/9 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x - 61/9 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} + 64/9 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} * \sin x^2 - 16/9 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} * \sin x^4 - 116/9 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x + 16/9 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x - 61/9 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} + 64/9 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} * \sin x^2 - 16/9 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} * \sin x^4 + 8/3 * \text{Hb}(1,2,3, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x + 16/9 * \text{Hb}(1,2,3, \text{plext.plext}) * F^{-4} * \sin x^2 - 16/9 * \text{Hb}(1,2,3, \text{plext.plext}) * F^{-4} * \sin x^4 - 16/9 * \text{Hb}(1,2,8, \text{plext.plext}) * F^{-4} * \sin x^2 + 16/9 * \text{Hb}(1,2,8, \text{plext.plext}) * F^{-4} * \sin x^4 - 4/3 * \text{Hb}(1,5,6, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 2/3 * \text{Hb}(1,5,6, \text{plext.plext}) * F^{-4} - 4/3 * \text{Hb}(2,4,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 2/3 * \text{Hb}(2,4,7, \text{plext.plext}) * F^{-4} - 4/9 * \text{Hb}(3,1,2, \text{plext.plext}) * F^{-4} * \sin x^2 + 4/9 * \text{Hb}(3,1,2, \text{plext.plext}) * F^{-4} * \sin x^4 - 64/243 * \text{Hb}(3,3,3, \text{plext.plext}) * F^{-4} * \sin x^2 + 64/27 * \text{Hb}(3,3,3, \text{plext.plext}) * F^{-4} * \sin x^4 - 1024/243 * \text{Hb}(3,3,3, \text{plext.plext}) * F^{-4} * \sin x^6 + 512/243 * \text{Hb}(3,3,3, \text{plext.plext}) * F^{-4} * \sin x^8 - 512/81 * \text{Hb}(3,3,8, \text{plext.plext}) * F^{-4} * \sin x^4 + 1024/81 * \text{Hb}(3,3,8, \text{plext.plext}) * F^{-4} * \sin x^6 - 512/81 * \text{Hb}(3,3,8, \text{plext.plext}) * F^{-4} * \sin x^8 + 1/9 * \text{Hb}(3,4,5, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x - 2/9 * \text{Hb}(3,4,5, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x - 1/36 * \text{Hb}(3,4,5, \text{plext.plext}) * F^{-4} - 2/27 * \text{Hb}(3,4,5, \text{plext.plext}) * F^{-4} * \sin x^2 + 2/27 * \text{Hb}(3,4,5, \text{plext.plext}) * F^{-4} * \sin x^4 - 1/9 * \text{Hb}(3,6,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x + 2/9 * \text{Hb}(3,6,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x + 1/36 * \text{Hb}(3,6,7, \text{plext.plext}) * F^{-4} - 2/27 * \text{Hb}(3,6,7, \text{plext.plext}) * F^{-4} * \sin x^2
\end{aligned}$$

$$\begin{aligned}
& + 2/27*\text{Hb}(3,6,7,\text{plext.plext})*F^{-4}*\sin^4 - 64/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-4}*\sin^2 + 64/9*\text{Hb}(3,8,8,\text{plext.plext})*F^{-4}*\sin^4 - 1024/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-4}*\sin^6 + 512/81*\text{Hb}(3,8,8,\text{plext.plext})*F^{-4}*\sin^8 - 1/2*\text{Hb}(4,2,7,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos - 1/8*\text{Hb}(4,2,7,\text{plext.plext})*F^{-4} - 8/3*\text{Hb}(4,5,8,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos + 8/3*\text{Hb}(4,5,8,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& + 22/9*\text{Hb}(4,5,8,\text{plext.plext})*F^{-4} - 136/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-4}*\sin^2 + 40/27*\text{Hb}(4,5,8,\text{plext.plext})*F^{-4}*\sin^4 - 1/2*\text{Hb}(5,1,6,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos - 1/8*\text{Hb}(5,1,6,\text{plext.plext})*F^{-4} + 1/2*\text{Hb}(6,1,5,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos + 1/8*\text{Hb}(6,1,5,\text{plext.plext})*F^{-4} + 104/9*\text{Hb}(6,7,8,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos - 8/3*\text{Hb}(6,7,8,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& + 14/3*\text{Hb}(6,7,8,\text{plext.plext})*F^{-4} - 136/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-4}*\sin^2 + 40/27*\text{Hb}(6,7,8,\text{plext.plext})*F^{-4}*\sin^4 + 1/2*\text{Hb}(7,2,4,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos + 1/8*\text{Hb}(7,2,4,\text{plext.plext})*F^{-4} + 4/9*\text{Hb}(8,1,2,\text{plext.plext})*F^{-4}*\sin^2 - 4/9*\text{Hb}(8,1,2,\text{plext.plext})*F^{-4}*\sin^4 + 5/6*\text{Hb}(8,4,5,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos - 2/3*\text{Hb}(8,4,5,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& - 7/12*\text{Hb}(8,4,5,\text{plext.plext})*F^{-4} + 7/9*\text{Hb}(8,4,5,\text{plext.plext})*F^{-4}*\sin^2 + 2/9*\text{Hb}(8,4,5,\text{plext.plext})*F^{-4}*\sin^4 - 23/6*\text{Hb}(8,6,7,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos + 2/3*\text{Hb}(8,6,7,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& - 17/12*\text{Hb}(8,6,7,\text{plext.plext})*F^{-4} + 7/9*\text{Hb}(8,6,7,\text{plext.plext})*F^{-4}*\sin^2 + 2/9*\text{Hb}(8,6,7,\text{plext.plext})*F^{-4}*\sin^4 - 128/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-4}*\sin^4 + 1024/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-4}*\sin^6 - 512/243*\text{Hb}(8,8,8,\text{plext.plext})*F^{-4}*\sin^8 - 2*\text{H21b}(1,5,6,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos - 2*\text{H21b}(1,5,6,\text{plext.plext})*F^{-4} + 2*\text{H21b}(1,5,6,\text{plext.plext})*F^{-4}*\sin^2 - 2*\text{H21b}(2,4,7,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos - 2*\text{H21b}(2,4,7,\text{plext.plext})*F^{-4} + 2*\text{H21b}(2,4,7,\text{plext.plext})*F^{-4}*\sin^2 - 2*\text{H21b}(3,1,2,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos - 4/3*\text{H21b}(3,1,2,\text{plext.plext})*F^{-4}*\sin^2 + 4/3*\text{H21b}(3,1,2,\text{plext.plext})*F^{-4}*\sin^4 - 7/2*\text{H21b}(3,4,5,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos + 2*\text{H21b}(3,4,5,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& - 5/4*\text{H21b}(3,4,5,\text{plext.plext})*F^{-4} + 5/3*\text{H21b}(3,4,5,\text{plext.plext})*F^{-4}*\sin^2 - 2/3*\text{H21b}(3,4,5,\text{plext.plext})*F^{-4}*\sin^4 + 5/2*\text{H21b}(3,6,7,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos - 2*\text{H21b}(3,6,7,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& - 3/4*\text{H21b}(3,6,7,\text{plext.plext})*F^{-4} + 5/3*\text{H21b}(3,6,7,\text{plext.plext})*F^{-4}*\sin^2 - 2/3*\text{H21b}(3,6,7,\text{plext.plext})*F^{-4}*\sin^4 - 5/2*\text{H21b}(4,2,7,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos - 1/2*\text{H21b}(4,2,7,\text{plext.plext})*F^{-4} - 5/2*\text{H21b}(5,1,6,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos - 1/2*\text{H21b}(5,1,6,\text{plext.plext})*F^{-4} + 3/2*\text{H21b}(6,1,5,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos + 1/2*\text{H21b}(6,1,5,\text{plext.plext})*F^{-4} + 3/2*\text{H21b}(7,2,4,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos + 1/2*\text{H21b}(7,2,4,\text{plext.plext})*F^{-4} + 4/3*\text{H21b}(8,1,2,\text{plext.plext})*F^{-4}*\sin^2 - 4/3*\text{H21b}(8,1,2,\text{plext.plext})*F^{-4}*\sin^4 + 5/2*\text{H21b}(8,4,5,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos - 2*\text{H21b}(8,4,5,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& - 7/4*\text{H21b}(8,4,5,\text{plext.plext})*F^{-4} + 7/3*\text{H21b}(8,4,5,\text{plext.plext})*F^{-4}*\sin^2 + 2/3*\text{H21b}(8,4,5,\text{plext.plext})*F^{-4}*\sin^4 - 23/2*\text{H21b}(8,6,7,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin*\cos + 2*\text{H21b}(8,6,7,\text{plext.plext})*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos \\
& - 17/4*\text{H21b}(8,6,7,\text{plext.plext})*F^{-4} + 7/3*\text{H21b}(8,6,7,\text{plext.plext})*F^{-4}*\sin^2 + 2/3*\text{H21b}(8,6,7,\text{plext.plext})*F^{-4}*\sin^4) \\
& + \text{mud}*mkp2^2 * (+ 1231/165888*F^{-4}*\sqrt{3}^{-1}*\sin*\cos*\pi^{-4} +
\end{aligned}$$

$$\begin{aligned}
& 13/3888F^{-4}\sqrt{3}^{-1}\sin x \cos x \pi^{-2} - 176/27F^{-4}\sqrt{3}^{-1}\sin x \cos x L8r \pi^{-2} \\
& + 8/3F^{-4}\sqrt{3}^{-1}\sin x \cos x L7r \pi^{-2} - 28/3F^{-4}\sqrt{3}^{-1}\sin x \cos x L6r \pi^{-2} \\
& + 100/27F^{-4}\sqrt{3}^{-1}\sin x \cos x L5r \pi^{-2} + 4096/9F^{-4}\sqrt{3}^{-1}\sin x \cos x L5r L8r \\
& - 1024/3F^{-4}\sqrt{3}^{-1}\sin x \cos x L5r L7r + 2048/3F^{-4}\sqrt{3}^{-1}\sin x \cos x L5r L6r \\
& - 2560/9F^{-4}\sqrt{3}^{-1}\sin x \cos x L5r^2 + 14/3F^{-4}\sqrt{3}^{-1}\sin x \cos x L4r \pi^{-2} \\
& - 1024/3F^{-4}\sqrt{3}^{-1}\sin x \cos x L4r L8r - 3072F^{-4}\sqrt{3}^{-1}\sin x \cos x L4r L7r \\
& + 1024F^{-4}\sqrt{3}^{-1}\sin x \cos x L4r L6r - 2048/3F^{-4}\sqrt{3}^{-1}\sin x \cos x L4r L5r \\
& - 512F^{-4}\sqrt{3}^{-1}\sin x \cos x L4r^2 - 67/108F^{-4}\sqrt{3}^{-1}\sin x \cos x L3r \pi^{-2} \\
& - 23/9F^{-4}\sqrt{3}^{-1}\sin x \cos x L2r \pi^{-2} - 10/9F^{-4}\sqrt{3}^{-1}\sin x \cos x L1r \pi^{-2} \\
& + 1024/3F^{-4}\sqrt{3}^{-1}\sin x \cos x CC33 + 256/3F^{-4}\sqrt{3}^{-1}\sin x \cos x CC32 \\
& - 384F^{-4}\sqrt{3}^{-1}\sin x \cos x CC21 - 128F^{-4}\sqrt{3}^{-1}\sin x \cos x CC20 \\
& - 128/3F^{-4}\sqrt{3}^{-1}\sin x \cos x CC18 + 512/9F^{-4}\sqrt{3}^{-1}\sin x \cos x CC17 \\
& + 640/3F^{-4}\sqrt{3}^{-1}\sin x \cos x CC16 + 256/3F^{-4}\sqrt{3}^{-1}\sin x \cos x CC15 \\
& + 512/9F^{-4}\sqrt{3}^{-1}\sin x \cos x CC14 + 512/3F^{-4}\sqrt{3}^{-1}\sin x \cos x CC13 \\
& + 1280/9F^{-4}\sqrt{3}^{-1}\sin x \cos x CC12 + 7567/165888F^{-4}\pi^{-4} \\
& + 1091/124416F^{-4}\pi^{-2} + 14/9F^{-4}L8r \pi^{-2} + 32/9F^{-4}L7r \pi^{-2} \\
& - 4/9F^{-4}L6r \pi^{-2} - 5/27F^{-4}L5r \pi^{-2} + 2048/3F^{-4}L5r L8r \\
& + 2048/3F^{-4}L5r L7r + 2048/3F^{-4}L5r L6r - 2048/9F^{-4}L5r^2 \\
& + 2/9F^{-4}L4r \pi^{-2} + 1024F^{-4}L4r L8r + 1024F^{-4}L4r L7r \\
& + 1024F^{-4}L4r L6r - 2048/3F^{-4}L4r L5r - 512F^{-4}L4r^2 - 19/36F^{-4}L3r \pi^{-2} \\
& - 17/9F^{-4}L2r \pi^{-2} - 8/9F^{-4}L1r \pi^{-2} - 256F^{-4}CC33 - 256F^{-4}CC32 \\
& - 256F^{-4}CC31 - 384F^{-4}CC21 - 384F^{-4}CC20 - 384F^{-4}CC19 \\
& + 256/3F^{-4}CC18 + 256/3F^{-4}CC17 + 128F^{-4}CC16 + 256/3F^{-4}CC15 \\
& + 256/3F^{-4}CC14 + 512/3F^{-4}CC13 + 1024/9F^{-4}CC12 \\
& - 7567/165888F^{-4}\sin x^2 \pi^{-4} - 1091/124416F^{-4}\sin x^2 \pi^{-2} \\
& - 14/9F^{-4}\sin x^2 L8r \pi^{-2} - 32/9F^{-4}\sin x^2 L7r \pi^{-2} \\
& + 4/9F^{-4}\sin x^2 L6r \pi^{-2} + 5/27F^{-4}\sin x^2 L5r \pi^{-2} - 2048/3F^{-4}\sin x^2 L5r L8r \\
& - 2048/3F^{-4}\sin x^2 L5r L7r - 2048/3F^{-4}\sin x^2 L5r L6r \\
& + 2048/9F^{-4}\sin x^2 L5r^2 - 2/9F^{-4}\sin x^2 L4r \pi^{-2} - 1024F^{-4}\sin x^2 L4r L8r \\
& - 1024F^{-4}\sin x^2 L4r L7r - 1024F^{-4}\sin x^2 L4r L6r \\
& + 2048/3F^{-4}\sin x^2 L4r L5r + 512F^{-4}\sin x^2 L4r^2 + 19/36F^{-4}\sin x^2 L3r \pi^{-2} \\
& + 17/9F^{-4}\sin x^2 L2r \pi^{-2} + 8/9F^{-4}\sin x^2 L1r \pi^{-2} + 256F^{-4}\sin x^2 CC33 \\
& + 256F^{-4}\sin x^2 CC32 + 256F^{-4}\sin x^2 CC31 + 384F^{-4}\sin x^2 CC21 \\
& + 384F^{-4}\sin x^2 CC20 + 384F^{-4}\sin x^2 CC19 - 256/3F^{-4}\sin x^2 CC18 \\
& - 256/3F^{-4}\sin x^2 CC17 - 128F^{-4}\sin x^2 CC16 - 256/3F^{-4}\sin x^2 CC15 \\
& - 256/3F^{-4}\sin x^2 CC14 - 512/3F^{-4}\sin x^2 CC13 - 1024/9F^{-4}\sin x^2 CC12 \\
& - 5/1296\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x \pi^{-4} - 184/27\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L8r \pi^{-2} \\
& - 88/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L7r \pi^{-2} - 8/3\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L6r \pi^{-2} \\
& + 16/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L5r \pi^{-2} + 16/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L4r \pi^{-2} \\
& + 2/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L3r \pi^{-2} + 2/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L2r \pi^{-2} \\
& + 8/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x \cos x L1r \pi^{-2} + 1/162\ln(3)F^{-4}\sin x^2 \pi^{-4} \\
& + 416/27\ln(3)F^{-4}\sin x^2 L8r \pi^{-2} + 256/9\ln(3)F^{-4}\sin x^2 L7r \pi^{-2} \\
& + 64/9\ln(3)F^{-4}\sin x^2 L6r \pi^{-2} - 80/27\ln(3)F^{-4}\sin x^2 L5r \pi^{-2} - 16/3\ln(3)F^{-4}\sin x^2 L4r \pi^{-2} \\
& - 16/3\ln(3)F^{-4}\sin x^2 L3r \pi^{-2} - 16/3\ln(3)F^{-4}\sin x^2 L2r \pi^{-2} - 16/3\ln(3)F^{-4}\sin x^2 L1r \pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2*L4r*\pi^{-2} - 1/162*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} - 224/9*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 512/9*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 64/9*\ln(3)*F^{-4}*\sin x^4*L6r*\pi^{-2} + 80/27*\ln(3)*F^{-4}*\sin x^4*L5r*\pi^{-2} + 16/3*\ln(3)*F^{-4}*\sin x^4*L4r*\pi^{-2} + 256/27*\ln(3)*F^{-4}*\sin x^6*L8r*\pi^{-2} + 256/9*\ln(3)*F^{-4}*\sin x^6*L7r*\pi^{-2} + 41/10368*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 11/2592*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 7/2592*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} + 25/1296*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} - 1/81*\ln(3)^2*F^{-4}*\sin x^8*\pi^{-4} + 1/216*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 31/864*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/36*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 55/41472*\ln(3)*\ln(4)*F^{-4}*\pi^{-4} + 1/96*\ln(3)*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} - 1/864*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} - 1/108*\ln(3)*\ln(4)*F^{-4}*\sin x^6*\pi^{-4} - 25/1152*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 31/864*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/36*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 55/41472*\ln(3)*\ln(6)*F^{-4}*\pi^{-4} + 1/96*\ln(3)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} - 1/864*\ln(3)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} - 1/108*\ln(3)*\ln(6)*F^{-4}*\sin x^6*\pi^{-4} - 7/5184*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 11/1296*\ln(3)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 5/144*\ln(3)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} - 11/216*\ln(3)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} + 2/81*\ln(3)*\ln(8)*F^{-4}*\sin x^8*\pi^{-4} - 11/576*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 50/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 28/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 8*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} - 11/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} - 16/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} - 5/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} - 2/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} - 8/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + 1/108*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 64/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - 64/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} + 499/82944*\ln(4)*F^{-4}*\pi^{-4} + 13/54*\ln(4)*F^{-4}*\sin x^2*\pi^{-2} - 4/9*\ln(4)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 7/36*\ln(4)*F^{-4}*\sin x^2*L5r*\pi^{-2} - 2/3*\ln(4)*F^{-4}*\sin x^2*L4r*\pi^{-2} + 25/24*\ln(4)*F^{-4}*\sin x^2*L3r*\pi^{-2} + 2/3*\ln(4)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 8/3*\ln(4)*F^{-4}*\sin x^2*L1r*\pi^{-2} - 13/1152*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} - \ln(4)*F^{-4}*\sin x^2*L8r*\pi^{-2} - 2*\ln(4)*F^{-4}*\sin x^2*L7r*\pi^{-2} + 1/6*\ln(4)*F^{-4}*\sin x^2*L5r*\pi^{-2} + \ln(4)*F^{-4}*\sin x^2*L4r*\pi^{-2} - 7/4*\ln(4)*F^{-4}*\sin x^2*L3r*\pi^{-2} - \ln(4)*F^{-4}*\sin x^2*L2r*\pi^{-2} - 4*\ln(4)*F^{-4}*\sin x^2*L1r*\pi^{-2} + 5/2304*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/144*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/13824*\ln(4)^2*F^{-4}*\pi^{-4} - 5/1152*\ln(4)^2*F^{-4}*\sin x^2*\pi^{-4} + 1/144*\ln(4)^2*F^{-4}*\sin x^4*\pi^{-4} - 1/288*\ln(4)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/1536*\ln(4)*\ln(6)*F^{-4}*\pi^{-4} + 67/4608*\ln(4)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} - 1/72*\ln(4)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} - 107/3456*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 13/288*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/36*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 167/13824*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} - 5/192*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 1/864*\ln(4)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 1/108*\ln(4)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} + 289/6912*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 230/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 28*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - 16*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} + 73/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} + 26/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + 41/6*\ln(6)*F^{-4}*\sqrt{3}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x*\cos x*L3r*\pi^{-2} + 10/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} + \\
& 40/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - 1/108*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x^3*\cos x*\pi^{-4} + 64/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} + \\
& 64/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} + 1373/82944*\ln(6)*F^{-4} \\
& * \pi^{-4} + 95/54*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L5r*\pi^{-2} + 40/9*\ln(6)*F^{-4} \\
& * \sqrt{3}^{-1}*\pi^{-2} - 5/36*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L4r*\pi^{-2} + 59/24*\ln(6)*F^{-4} \\
& * L3r*\pi^{-2} + 4/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L2r*\pi^{-2} + 16/3*\ln(6)*F^{-4} \\
& * L1r*\pi^{-2} - 13/1152*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^2*\pi^{-4} - \ln(6)*F^{-4}*\sin x^2*L8r*\pi^{-2} - \\
& 2*\ln(6)*F^{-4}*\sin x^2*L7r*\pi^{-2} + 1/6*\ln(6)*F^{-4}*\sin x^2*L5r*\pi^{-2} + \\
& \ln(6)*F^{-4}*\sin x^2*L4r*\pi^{-2} - 7/4*\ln(6)*F^{-4}*\sin x^2*L3r*\pi^{-2} - \ln(6)*F^{-4} \\
& * \sin x^2*L2r*\pi^{-2} - 4*\ln(6)*F^{-4}*\sin x^2*L1r*\pi^{-2} - 5/192*\ln(6)^2*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/144*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& - 89/13824*\ln(6)^2*F^{-4}*\pi^{-4} - 5/1152*\ln(6)^2*F^{-4}*\sin x^2*\pi^{-4} \\
& + 1/144*\ln(6)^2*F^{-4}*\sin x^4*\pi^{-4} + 5/108*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} - 13/288*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 1/36*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 265/13824*\ln(6)*\ln(8)*F^{-4} \\
& * \pi^{-4} - 5/192*\ln(6)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 1/864*\ln(6)*\ln(8)*F^{-4} \\
& * \sin x^4*\pi^{-4} + 1/108*\ln(6)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 77/5184*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 64/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - \\
& 16/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 152/9*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L6r*\pi^{-2} - 40/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} - \\
& 64/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + 10/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L3r*\pi^{-2} + 20/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} + \\
& 20/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - 25/2592*\ln(8)*F^{-4}*\pi^{-4} + \\
& 160/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 160/9*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * L7r*\pi^{-2} + 160/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} - 160/27*\ln(8)*F^{-4} \\
& * L5r*\pi^{-2} - 80/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + \\
& 8/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} + 16/3*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& * L2r*\pi^{-2} + 16/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + 1/288*\ln(8)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 896/27*\ln(8)*F^{-4}*\sin x^2*L8r*\pi^{-2} - 416/9*\ln(8)*F^{-4} \\
& * \sin x^2*L7r*\pi^{-2} + 224/9*\ln(8)*F^{-4}*\sin x^2*L6r*\pi^{-2} - 80/9*\ln(8)*F^{-4} \\
& * \sin x^2*L5r*\pi^{-2} + 128/9*\ln(8)*F^{-4}*\sin x^2*L4r*\pi^{-2} - 8/3*\ln(8)*F^{-4} \\
& * \sin x^2*L3r*\pi^{-2} - 16/3*\ln(8)*F^{-4}*\sin x^2*L2r*\pi^{-2} - 16/3*\ln(8)*F^{-4} \\
& * \sin x^2*L1r*\pi^{-2} + 1/162*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 224/9*\ln(8)*F^{-4} \\
& * \sin x^4*L8r*\pi^{-2} + 512/9*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 64/9*\ln(8)*F^{-4} \\
& * \sin x^4*L6r*\pi^{-2} - 80/27*\ln(8)*F^{-4}*\sin x^4*L5r*\pi^{-2} - 16/3*\ln(8)*F^{-4} \\
& * \sin x^4*L4r*\pi^{-2} - 256/27*\ln(8)*F^{-4}*\sin x^6*L8r*\pi^{-2} - 256/9*\ln(8)*F^{-4} \\
& * \sin x^6*L7r*\pi^{-2} - 5/1152*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 1/108*\ln(8)^2*F^{-4}*\pi^{-4} + 19/864*\ln(8)^2*F^{-4}*\sin x^2*\pi^{-4} - 83/2592*\ln(8)^2 \\
& * F^{-4}*\sin x^4*\pi^{-4} + 41/1296*\ln(8)^2*F^{-4}*\sin x^6*\pi^{-4} - 1/81*\ln(8)^2*F^{-4} \\
& * \sin x^8*\pi^{-4}) \\
& + \text{mud}*\text{mkp}2^3 * (- 17/3456/(\text{mass}(3))^*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& + 5/729/(\text{mass}(3))^*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 5/729/(\text{mass}(3))^*\ln(3)^2*F^{-4} \\
& * \sin x^4*\pi^{-4} + 524288/81/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^2*L8r^2 + \\
& 1048576/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^2*L7r*L8r + 524288/9/(\text{mass}(3) \\
& - \text{mass}(8))*F^{-4}*\sin x^2*L7r^2 - 524288/81/(\text{mass}(3) - \text{mass}(8))*F^{-4} \\
& * \sin x^4*L8r^2 - 1048576/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^4*L7r*L8r
\end{aligned}$$

$$\begin{aligned}
& - 524288/9/(mass(3) - mass(8))*F^{-4}*sinx^4*L7r^2 - 112/81/(mass(3) \\
& - mass(8))*ln(3)*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} - 112/27/(mass(3) \\
& - mass(8))*ln(3)*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*pi^{-2} - 4096/243/(mass(3) - \\
& mass(8))*ln(3)*F^{-4}*sinx^4*L8r*pi^{-2} - 4096/81/(mass(3) - mass(8))*ln(3)*F^{-4} \\
& *sinx^4*L7r*pi^{-2} + 4096/243/(mass(3) - mass(8))*ln(3)*F^{-4}*sinx^6*L8r*pi^{-2} \\
& + 4096/81/(mass(3) - mass(8))*ln(3)*F^{-4}*sinx^6*L7r*pi^{-2} + 7/7776/(mass(3) \\
& - mass(8))*ln(3)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 1/729/(mass(3) - \\
& mass(8))*ln(3)^2*F^{-4}*sinx^2*pi^{-4} + 1/729/(mass(3) - mass(8))*ln(3)^2*F^{-4} \\
& *sinx^4*pi^{-4} + 8/729/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sinx^6*pi^{-4} - \\
& 8/729/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sinx^8*pi^{-4} - 35/15552/(mass(3) \\
& - mass(8))*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 8/243/(mass(3) - \\
& mass(8))*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} + 4/81/(mass(3) - \\
& mass(8))*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx^5*cosx*pi^{-4} + 7/15552/(mass(3) - \\
& mass(8))*ln(3)*ln(4)*F^{-4}*pi^{-4} + 4/243/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4} \\
& *sinx^4*pi^{-4} - 4/243/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sinx^6*pi^{-4} \\
& + 77/15552/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} \\
& + 8/243/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} - \\
& 4/81/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sqrt3^{-1}*sinx^5*cosx*pi^{-4} - \\
& 7/15552/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*pi^{-4} + 4/243/(mass(3) - \\
& mass(8))*ln(3)*ln(6)*F^{-4}*sinx^4*pi^{-4} - 4/243/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4} \\
& *sinx^6*pi^{-4} + 2/729/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*sinx^2*pi^{-4} + \\
& 14/729/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*sinx^4*pi^{-4} - 32/729/(mass(3) - \\
& mass(8))*ln(3)*ln(8)*F^{-4}*sinx^6*pi^{-4} + 16/729/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4} \\
& *sinx^8*pi^{-4} + 608/27/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} \\
& + 608/9/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*pi^{-2} - \\
& 1024/27/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*L8r*pi^{-2} - \\
& 1024/9/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*L7r*pi^{-2} - \\
& 28/27/(mass(3) - mass(8))*ln(4)*F^{-4}*L8r*pi^{-2} - 28/9/(mass(3) - \\
& mass(8))*ln(4)*F^{-4}*L7r*pi^{-2} - 1024/81/(mass(3) - mass(8))*ln(4)*F^{-4} \\
& *sinx^2*L8r*pi^{-2} - 1024/27/(mass(3) - mass(8))*ln(4)*F^{-4}*sinx^2*L7r*pi^{-2} \\
& + 1024/81/(mass(3) - mass(8))*ln(4)*F^{-4}*sinx^4*L8r*pi^{-2} + 1024/27/(mass(3) \\
& - mass(8))*ln(4)*F^{-4}*sinx^4*L7r*pi^{-2} - 41/1728/(mass(3) - mass(8))*ln(4)^2*F^{-4} \\
& *sqrt3^{-1}*sinx*cosx*pi^{-4} + 1/27/(mass(3) - mass(8))*ln(4)^2*F^{-4} \\
& *sqrt3^{-1}*sinx^3*cosx*pi^{-4} + 13/2304/(mass(3) - mass(8))*ln(4)^2*F^{-4} \\
& *pi^{-4} - 41/2592/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sinx^2*pi^{-4} + \\
& 1/81/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sinx^4*pi^{-4} + 1/288/(mass(3) - \\
& mass(8))*ln(4)*ln(6)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 1/108/(mass(3) - \\
& mass(8))*ln(4)*ln(6)*F^{-4}*pi^{-4} + 73/1296/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4} \\
& *sinx^2*pi^{-4} - 4/81/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*sinx^4*pi^{-4} - \\
& 421/15552/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} \\
& + 20/243/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} - \\
& 4/81/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sqrt3^{-1}*sinx^5*cosx*pi^{-4} \\
& + 7/7776/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*pi^{-4} + 4/243/(mass(3) - \\
& mass(8))*ln(4)*ln(8)*F^{-4}*sinx^2*pi^{-4} - 8/243/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4} \\
& *sinx^4*pi^{-4} + 4/243/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sinx^6*pi^{-4} - \\
& 608/27/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& - 608/9/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt{3}^{-1}*sinx*cosx*L7r*pi^{-2} + \\
& 1024/27/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt{3}^{-1}*sinx^3*cosx*L8r*pi^{-2} \\
& + 1024/9/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt{3}^{-1}*sinx^3*cosx*L7r*pi^{-2} \\
& + 28/27/(mass(3) - mass(8))*ln(6)*F^{-4}*L8r*pi^{-2} + 28/9/(mass(3) - \\
& mass(8))*ln(6)*F^{-4}*L7r*pi^{-2} - 1024/81/(mass(3) - mass(8))*ln(6)*F^{-4}*sinx^2*L8r*pi^{-2} \\
& - 1024/27/(mass(3) - mass(8))*ln(6)*F^{-4}*sinx^2*L7r*pi^{-2} + 1024/81/(mass(3) - mass(8))*ln(6)*F^{-4}*sinx^4*L8r*pi^{-2} \\
& + 1024/27/(mass(3) - mass(8))*ln(6)*F^{-4}*sinx^4*L7r*pi^{-2} + 35/1728/(mass(3) - mass(8))*ln(6)^2*F^{-4}*sqrt{3}^{-1}*sinx*cosx*pi^{-4} \\
& - 1/27/(mass(3) - mass(8))*ln(6)^2*F^{-4}*sqrt{3}^{-1}*sinx^3*cosx*pi^{-4} + 25/6912/(mass(3) - mass(8))*ln(6)^2*F^{-4}*pi^{-4} - \\
& 41/2592/(mass(3) - mass(8))*ln(6)^2*F^{-4}*sinx^2*pi^{-4} + 1/81/(mass(3) - mass(8))*ln(6)^2*F^{-4}*sinx^4*pi^{-4} + 379/15552/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sqrt{3}^{-1}*sinx*cosx*pi^{-4} \\
& - 20/243/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sqrt{3}^{-1}*sinx^3*cosx*pi^{-4} + 4/81/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sqrt{3}^{-1}*sinx^5*cosx*pi^{-4} \\
& - 7/7776/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*pi^{-4} + 4/243/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sinx^2*pi^{-4} - \\
& 8/243/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sinx^4*pi^{-4} + 4/243/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sinx^6*pi^{-4} + 112/81/(mass(3) - mass(8))*ln(8)*F^{-4}*sqrt{3}^{-1}*sinx*cosx*L8r*pi^{-2} \\
& + 112/27/(mass(3) - mass(8))*ln(8)*F^{-4}*sqrt{3}^{-1}*sinx*cosx*L7r*pi^{-2} - 4096/243/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^2*L8r*pi^{-2} - 4096/81/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^2*L7r*pi^{-2} \\
& + 8192/243/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^4*L8r*pi^{-2} + 8192/81/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^4*L7r*pi^{-2} - 4096/243/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^6*L8r*pi^{-2} - 4096/81/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^6*L7r*pi^{-2} \\
& - 7/7776/(mass(3) - mass(8))*ln(8)^2*F^{-4}*sqrt{3}^{-1}*sinx*cosx*pi^{-4} + 7/729/(mass(3) - mass(8))*ln(8)^2*F^{-4}*sinx^2*pi^{-4} - 23/729/(mass(3) - mass(8))*ln(8)^2*F^{-4}*sinx^4*pi^{-4} + 8/243/(mass(3) - mass(8))*ln(8)^2*F^{-4}*sinx^6*pi^{-4} - 8/729/(mass(3) - mass(8))*ln(8)^2*F^{-4}*sinx^8*pi^{-4} - 217/9216/(mass(4))*ln(4)^2*F^{-4}*sqrt{3}^{-1}*sinx*cosx*pi^{-4} + 11/1536/(mass(4))*ln(4)^2*F^{-4}*pi^{-4} - 25/2304/(mass(4))*ln(4)^2*F^{-4}*sinx^2*pi^{-4} - 97/9216/(mass(5))*ln(4)^2*F^{-4}*sqrt{3}^{-1}*sinx*cosx*pi^{-4} + 5/1152/(mass(5))*ln(4)^2*F^{-4}*pi^{-4} - 13/2304/(mass(5))*ln(4)^2*F^{-4}*sinx^2*pi^{-4} + 391/9216/(mass(6))*ln(6)^2*F^{-4}*sqrt{3}^{-1}*sinx*cosx*pi^{-4} + 77/4608/(mass(6))*ln(6)^2*F^{-4}*pi^{-4} - 25/2304/(mass(6))*ln(6)^2*F^{-4}*sinx^2*pi^{-4} + 31/9216/(mass(7))*ln(6)^2*F^{-4}*sqrt{3}^{-1}*sinx*cosx*pi^{-4} + 11/2304/(mass(7))*ln(6)^2*F^{-4}*pi^{-4} - 13/2304/(mass(7))*ln(6)^2*F^{-4}*sinx^2*pi^{-4} + 637/15552/(mass(8))*ln(8)^2*F^{-4}*sqrt{3}^{-1}*sinx*cosx*pi^{-4} + 289/5832/(mass(8))*ln(8)^2*F^{-4}*pi^{-4} - 329/5832/(mass(8))*ln(8)^2*F^{-4}*sinx^2*pi^{-4} + 5/729/(mass(8))*ln(8)^2*F^{-4}*sinx^4*pi^{-4}) \\
& + mud*mp^2 * (+ 4/3*HH1b(1,2,3,plext.plext)*F^{-4}*sqrt{3}^{-1}*sinx*cosx - \\
& 20/3*HH1b(1,2,8,plext.plext)*F^{-4}*sqrt{3}^{-1}*sinx*cosx + 2/3*HH1b(1,5,6,plext.plext)*F^{-4}*sqrt{3}^{-1}*sinx*cosx + 1/3*HH1b(1,5,6,plext.plext)*F^{-4} - 2/3*HH1b(1,5,6,plext.plext)*F^{-4}*sinx^2 + 4/3*HH1b(2,1,3,plext.plext)*F^{-4}*sqrt{3}^{-1}*sinx*cosx - 20/3*HH1b(2,1,8,plext.plext)*F^{-4}*sqrt{3}^{-1}*sinx*cosx + 2/3*HH1b(2,4,7,plext.plext)*F^{-4}*sqrt{3}^{-1}*sinx*cosx \\
& + 1/3*HH1b(2,4,7,plext.plext)*F^{-4} - 2/3*HH1b(2,4,7,plext.plext)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2 - 11/9^*\text{HH1b}(3,4,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x - 8/9^*\text{HH1b}(3,4,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^3^*\cos x + 7/18^*\text{HH1b}(3,4,5,\text{plext.plext})^*F^{-4} - 11/9^*\text{HH1b}(3,4,5,\text{plext.plext})^*F^{-4}\sin x^2 + 8/9^*\text{HH1b}(3,4,5,\text{plext.plext})^*F^{-4}\sin x^4 - 7/9^*\text{HH1b}(3,6,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x + 8/9^*\text{HH1b}(3,6,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^3^*\cos x \\
& + 5/18^*\text{HH1b}(3,6,7,\text{plext.plext})^*F^{-4} - 11/9^*\text{HH1b}(3,6,7,\text{plext.plext})^*F^{-4}\sin x^2 + 8/9^*\text{HH1b}(3,6,7,\text{plext.plext})^*F^{-4}\sin x^4 - 2/3^*\text{HH1b}(4,2,7,\text{plext.plext})^*F^{-4} - 35/9^*\text{HH1b}(4,5,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x - 8/9^*\text{HH1b}(4,5,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^3^*\cos x + 43/18^*\text{HH1b}(4,5,8,\text{plext.plext})^*F^{-4} - 23/9^*\text{HH1b}(4,5,8,\text{plext.plext})^*F^{-4}\sin x^2 + 8/9^*\text{HH1b}(4,5,8,\text{plext.plext})^*F^{-4}\sin x^4 - 2/3^*\text{HH1b}(5,1,6,\text{plext.plext})^*F^{-4} - 35/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x - 8/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^3^*\cos x + 43/18^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-4} - 23/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-4}\sin x^2 + 8/9^*\text{HH1b}(5,4,8,\text{plext.plext})^*F^{-4}\sin x^4 - 7/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x + 8/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^3^*\cos x \\
& + 17/18^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-4} - 23/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-4}\sin x^2 + 8/9^*\text{HH1b}(6,7,8,\text{plext.plext})^*F^{-4}\sin x^4 - 7/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x + 8/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^3^*\cos x \\
& + 17/18^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-4} - 23/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-4}\sin x^2 + 8/9^*\text{HH1b}(7,6,8,\text{plext.plext})^*F^{-4}\sin x^4 - 4/3^*\text{Hb}(1,2,3,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x + 8/9^*\text{Hb}(1,2,3,\text{plext.plext})^*F^{-4}\sin x^2 - 8/9^*\text{Hb}(1,2,3,\text{plext.plext})^*F^{-4}\sin x^4 + 4^*\text{Hb}(1,2,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x - 8/9^*\text{Hb}(1,2,8,\text{plext.plext})^*F^{-4}\sin x^2 + 8/9^*\text{Hb}(1,2,8,\text{plext.plext})^*F^{-4}\sin x^4 - 19/12^*\text{Hb}(1,5,6,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x + 1/12^*\text{Hb}(1,5,6,\text{plext.plext})^*F^{-4} + 1/4^*\text{Hb}(1,5,6,\text{plext.plext})^*F^{-4}\sin x^2 - 19/12^*\text{Hb}(2,4,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x + 1/12^*\text{Hb}(2,4,7,\text{plext.plext})^*F^{-4} + 1/4^*\text{Hb}(2,4,7,\text{plext.plext})^*F^{-4}\sin x^2 - 2/9^*\text{Hb}(3,1,2,\text{plext.plext})^*F^{-4}\sin x^2 + 2/9^*\text{Hb}(3,1,2,\text{plext.plext})^*F^{-4}\sin x^4 + 64/243^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4}\sin x^2 - 64/27^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4}\sin x^4 + 1024/243^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4}\sin x^6 - 512/243^*\text{Hb}(3,3,3,\text{plext.plext})^*F^{-4}\sin x^8 - 16/27^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{-4}\sin x^2 + 560/81^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{-4}\sin x^4 - 1024/81^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{-4}\sin x^6 + 512/81^*\text{Hb}(3,3,8,\text{plext.plext})^*F^{-4}\sin x^8 - 5/6^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x + 5/3^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^3^*\cos x - 11/72^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4} - 1/27^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4}\sin x^2 + 1/27^*\text{Hb}(3,4,5,\text{plext.plext})^*F^{-4}\sin x^4 + 5/6^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x - 5/3^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^3^*\cos x - 7/72^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4} - 1/27^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}\sin x^2 + 1/27^*\text{Hb}(3,6,7,\text{plext.plext})^*F^{-4}\sin x^4 + 64/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}\sin x^2 - 64/9^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}\sin x^4 + 1024/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}\sin x^6 - 512/81^*\text{Hb}(3,8,8,\text{plext.plext})^*F^{-4}\sin x^8 - 1/8^*\text{Hb}(4,2,7,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x + 1/16^*\text{Hb}(4,2,7,\text{plext.plext})^*F^{-4} - 1/8^*\text{Hb}(4,2,7,\text{plext.plext})^*F^{-4}\sin x^2 + 3^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x - 4/9^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^3^*\cos x - 13/9^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4} + 55/27^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}\sin x^2 - 28/27^*\text{Hb}(4,5,8,\text{plext.plext})^*F^{-4}\sin x^4 - 1/8^*\text{Hb}(5,1,6,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x + 1/16^*\text{Hb}(5,1,6,\text{plext.plext})^*F^{-4} - 1/8^*\text{Hb}(5,1,6,\text{plext.plext})^*F^{-4}\sin x^2 + 3/8^*\text{Hb}(6,1,5,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x - 1/16^*\text{Hb}(6,1,5,\text{plext.plext})^*F^{-4} - 1/8^*\text{Hb}(6,1,5,\text{plext.plext})^*F^{-4}\sin x^2 - 5/9^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^*\cos x + 4/9^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}\sqrt{3}^{-1}^*\sin x^3^*\cos x - 5/9^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4} + 55/27^*\text{Hb}(6,7,8,\text{plext.plext})^*F^{-4}\sin x^2
\end{aligned}$$

$$\begin{aligned}
& - 28/27^*Hb(6,7,8,plext.plext)^*F^{-4}*sinx^4 + 3/8^*Hb(7,2,4,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx - 1/16^*Hb(7,2,4,plext.plext)^*F^{-4} - 1/8^*Hb(7,2,4,plext.plext)^*F^{-4}*sinx^2 - Hb(8,1,2,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 2/9^*Hb(8,1,2,plext.plext)^*F^{-4}*sinx^2 - 2/9^*Hb(8,1,2,plext.plext)^*F^{-4}*sinx^4 - 7/12^*Hb(8,4,5,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx - 1/3^*Hb(8,4,5,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx + 1/3^*Hb(8,4,5,plext.plext)^*F^{-4} - 13/36^*Hb(8,4,5,plext.plext)^*F^{-4}*sinx^2 + 1/9^*Hb(8,4,5,plext.plext)^*F^{-4}*sinx^4 + 1/12^*Hb(8,6,7,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 1/3^*Hb(8,6,7,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx + 1/6^*Hb(8,6,7,plext.plext)^*F^{-4} - 13/36^*Hb(8,6,7,plext.plext)^*F^{-4}*sinx^2 + 1/9^*Hb(8,6,7,plext.plext)^*F^{-4}*sinx^4 - 8/9^*Hb(8,8,8,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 56/243^*Hb(8,8,8,plext.plext)^*F^{-4} - 56/81^*Hb(8,8,8,plext.plext)^*F^{-4}*sinx^2 + 208/81^*Hb(8,8,8,plext.plext)^*F^{-4}*sinx^4 - 1024/243^*Hb(8,8,8,plext.plext)^*F^{-4}*sinx^6 + 512/243^*Hb(8,8,8,plext.plext)^*F^{-4}*sinx^8 + 1/2^*H21b(1,5,6,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 1/2^*H21b(1,5,6,plext.plext)^*F^{-4}*sinx^2 + 1/2^*H21b(2,4,7,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 1/2^*H21b(2,4,7,plext.plext)^*F^{-4} - 1/2^*H21b(2,4,7,plext.plext)^*F^{-4}*sinx^2 - H21b(3,1,2,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx - 2/3^*H21b(3,1,2,plext.plext)^*F^{-4}*sinx^2 + 2/3^*H21b(3,1,2,plext.plext)^*F^{-4}*sinx^4 - 1/4^*H21b(3,4,5,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + H21b(3,4,5,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx + 1/2^*H21b(3,4,5,plext.plext)^*F^{-4} + 1/12^*H21b(3,4,5,plext.plext)^*F^{-4}*sinx^2 - 1/3^*H21b(3,4,5,plext.plext)^*F^{-4}*sinx^4 - 1/4^*H21b(3,6,7,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx - H21b(3,6,7,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx + 1/12^*H21b(3,6,7,plext.plext)^*F^{-4}*sinx^2 - 1/3^*H21b(3,6,7,plext.plext)^*F^{-4}*sinx^4 - 1/2^*H21b(4,2,7,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx - 1/4^*H21b(4,2,7,plext.plext)^*F^{-4} - 1/2^*H21b(5,1,6,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx - 1/4^*H21b(5,1,6,plext.plext)^*F^{-4} - 3/2^*H21b(6,1,5,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 1/4^*H21b(6,1,5,plext.plext)^*F^{-4} - 3/2^*H21b(7,2,4,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 1/4^*H21b(7,2,4,plext.plext)^*F^{-4} - 3^*H21b(8,1,2,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 2/3^*H21b(8,1,2,plext.plext)^*F^{-4}*sinx^2 - 2/3^*H21b(8,1,2,plext.plext)^*F^{-4}*sinx^4 - 7/4^*H21b(8,4,5,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx - H21b(8,4,5,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx + H21b(8,4,5,plext.plext)^*F^{-4} - 13/12^*H21b(8,4,5,plext.plext)^*F^{-4}*sinx^2 + 1/3^*H21b(8,4,5,plext.plext)^*F^{-4}*sinx^4 + 1/4^*H21b(8,6,7,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + H21b(8,6,7,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx + 1/2^*H21b(8,6,7,plext.plext)^*F^{-4} - 13/12^*H21b(8,6,7,plext.plext)^*F^{-4}*sinx^2 + 1/3^*H21b(8,6,7,plext.plext)^*F^{-4}*sinx^4) \\
& + mud^*mpp2^*mkp2 * (- 65/41472^*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 155/248832^*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-2} - 38/27^*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} - 28/3^*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*pi^{-2} + 2/3^*F^{-4}*sqrt3^{-1}*sinx*cosx*L6r*pi^{-2} - 23/27^*F^{-4}*sqrt3^{-1}*sinx*cosx*L5r*pi^{-2} - 3584/9^*F^{-4}*sqrt3^{-1}*sinx*cosx*L5r*L8r - 2560/3^*F^{-4}*sqrt3^{-1}*sinx*cosx*L5r*L7r + 2048/3^*F^{-4}*sqrt3^{-1}*sinx*cosx*L5r*L6r + 512/9^*F^{-4}*sqrt3^{-1}*sinx*cosx*L5r^2 - 1/3^*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*pi^{-2} + 3584/3^*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*L8r + 1536^*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*L7r + 1024^*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*L6r - 2048/3^*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*L5r - 512^*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r^2 + 103/216^*F^{-4}*sqrt3^{-1}*sinx*cosx*L3r*pi^{-2} + 13/9^*F^{-4}*sqrt3^{-1}*sinx*cosx*L2r*pi^{-2} + 2/9^*F^{-4}*sqrt3^{-1}*sinx*cosx*L1r*pi^{-2} + 256/3^*F^{-4}*sqrt3^{-1}*sinx*cosx*CC33
\end{aligned}$$

$$\begin{aligned}
& - 896/3^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*CC32 + 128^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*CC31 \\
& - 384^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*CC21 + 192^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*CC19 - \\
& 320/3^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*CC18 - 448/9^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*CC17 \\
& - 896/3^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*CC16 + 256/3^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*CC15 \\
& - 448/9^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*CC14 + 512/3^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*CC13 \\
& - 256/9^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*CC12 - 367/12288^*F^{-4}*\pi^{-4} - 133/27648^*F^{-4} \\
& \pi^{-2} - 92/27^*F^{-4}*\text{L8r}*\pi^{-2} - 52/9^*F^{-4}*\text{L7r}*\pi^{-2} - 16/9^*F^{-4}*\text{L6r}*\pi^{-2} \\
& + 20/27^*F^{-4}*\text{L5r}*\pi^{-2} - 5120/9^*F^{-4}*\text{L5r}*\text{L8r} - 1024^*F^{-4}*\text{L5r}*\text{L7r} + \\
& 1024/9^*F^{-4}*\text{L5r}^2 + 8/9^*F^{-4}*\text{L4r}*\pi^{-2} - 1024/3^*F^{-4}*\text{L4r}*\text{L8r} - 1024^*F^{-4} \\
& \text{L4r}*\text{L7r} + 512^*F^{-4}*\text{L4r}*\text{L6r} - 256^*F^{-4}*\text{L4r}^2 + 17/72^*F^{-4}*\text{L3r}*\pi^{-2} \\
& + 11/18^*F^{-4}*\text{L2r}*\pi^{-2} + 4/9^*F^{-4}*\text{L1r}*\pi^{-2} + 1024/3^*F^{-4}*CC30 + \\
& 256/3^*F^{-4}*CC32 + 256^*F^{-4}*CC31 - 192^*F^{-4}*CC21 + 192^*F^{-4}*CC20 + \\
& 384^*F^{-4}*CC19 - 128^*F^{-4}*CC18 - 640/9^*F^{-4}*CC17 - 320/3^*F^{-4}*CC16 \\
& - 640/9^*F^{-4}*CC14 - 512/9^*F^{-4}*CC12 + 103/3072^*F^{-4}*\sin x^2*\pi^{-4} \\
& + 83/13824^*F^{-4}*\sin x^2*\pi^{-2} + 104/27^*F^{-4}*\sin x^2*\text{L8r}*\pi^{-2} + \\
& 56/9^*F^{-4}*\sin x^2*\text{L7r}*\pi^{-2} + 20/9^*F^{-4}*\sin x^2*\text{L6r}*\pi^{-2} - 8/9^*F^{-4} \\
& \sin x^2*\text{L5r}*\pi^{-2} + 5120/9^*F^{-4}*\sin x^2*\text{L5r}*\text{L8r} + 1024^*F^{-4}*\sin x^2*\text{L5r}*\text{L7r} \\
& - 1024/9^*F^{-4}*\sin x^2*\text{L5r}^2 - 10/9^*F^{-4}*\sin x^2*\text{L4r}*\pi^{-2} + 1024/3^*F^{-4} \\
& \sin x^2*\text{L4r}*\text{L8r} + 1024^*F^{-4}*\sin x^2*\text{L4r}*\text{L7r} - 47/108^*F^{-4}*\sin x^2*\text{L3r}*\pi^{-2} \\
& - 4/3^*F^{-4}*\sin x^2*\text{L2r}*\pi^{-2} - 4/9^*F^{-4}*\sin x^2*\text{L1r}*\pi^{-2} - 1024/3^*F^{-4} \\
& \sin x^2*CC33 - 256/3^*F^{-4}*\sin x^2*CC32 - 256^*F^{-4}*\sin x^2*CC31 - \\
& 256^*F^{-4}*\sin x^2*CC20 - 384^*F^{-4}*\sin x^2*CC19 + 128^*F^{-4}*\sin x^2*CC18 \\
& + 640/9^*F^{-4}*\sin x^2*CC17 + 512/3^*F^{-4}*\sin x^2*CC16 + 640/9^*F^{-4} \\
& \sin x^2*CC14 + 512/9^*F^{-4}*\sin x^2*CC12 + 1/384*\ln(1)^*F^{-4}*\sqrt{3}^{-1} \\
& \sin x*\cos x*\pi^{-4} + 1/324*\ln(1)^*F^{-4}*\sin x^2*\pi^{-4} - 64/27*\ln(1)^*F^{-4} \\
& \sin x^2*\text{L8r}*\pi^{-2} - 64/9*\ln(1)^*F^{-4}*\sin x^2*\text{L7r}*\pi^{-2} - 1/324*\ln(1)^*F^{-4} \\
& \sin x^4*\pi^{-4} + 64/27*\ln(1)^*F^{-4}*\sin x^4*\text{L8r}*\pi^{-2} + 64/9*\ln(1)^*F^{-4} \\
& \sin x^4*\text{L7r}*\pi^{-2} - 1/192*\ln(1)*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& + 13/1296*\ln(1)*\ln(3)^*F^{-4}*\sin x^2*\pi^{-4} - 13/1296*\ln(1)*\ln(3)^*F^{-4} \\
& \sin x^4*\pi^{-4} + 1/288*\ln(1)*\ln(4)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 1/144*\ln(1)*\ln(4)^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 7/9216*\ln(1)*\ln(4)^*F^{-4} \\
& \pi^{-4} + 1/432*\ln(1)*\ln(4)^*F^{-4}*\sin x^2*\pi^{-4} - 1/432*\ln(1)*\ln(4)^*F^{-4} \\
& \sin x^4*\pi^{-4} - 13/1152*\ln(1)*\ln(6)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 1/144*\ln(1)*\ln(6)^*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 7/9216*\ln(1)*\ln(6)^*F^{-4} \\
& \pi^{-4} + 1/432*\ln(1)*\ln(6)^*F^{-4}*\sin x^2*\pi^{-4} - 1/432*\ln(1)*\ln(6)^*F^{-4} \\
& \sin x^4*\pi^{-4} - 1/144*\ln(1)*\ln(8)^*F^{-4}*\sin x^2*\pi^{-4} + 1/144*\ln(1)*\ln(8)^*F^{-4} \\
& \sin x^4*\pi^{-4} + 11/2592*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 134/27*\ln(3)^*F^{-4} \\
& \sqrt{3}^{-1}*\sin x*\cos x*\text{L8r}*\pi^{-2} + 122/9*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\text{L7r}*\pi^{-2} \\
& - 4*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\text{L6r}*\pi^{-2} - 2/9*\ln(3)^*F^{-4}*\sqrt{3}^{-1} \\
& \sin x*\cos x*\text{L5r}*\pi^{-2} + 37/9*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\text{L4r}*\pi^{-2} - \\
& 10/9*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\text{L3r}*\pi^{-2} - 10/9*\ln(3)^*F^{-4}*\sqrt{3}^{-1} \\
& \sin x*\cos x*\text{L2r}*\pi^{-2} - 40/9*\ln(3)^*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\text{L1r}*\pi^{-2} - \\
& 1/1296*\ln(3)^*F^{-4}*\sin x^2*\pi^{-4} - 244/27*\ln(3)^*F^{-4}*\sin x^2*\text{L8r}*\pi^{-2} - \\
& 268/9*\ln(3)^*F^{-4}*\sin x^2*\text{L7r}*\pi^{-2} + 8/3*\ln(3)^*F^{-4}*\sin x^2*\text{L6r}*\pi^{-2} - \\
& 4/9*\ln(3)^*F^{-4}*\sin x^2*\text{L5r}*\pi^{-2} - 22/9*\ln(3)^*F^{-4}*\sin x^2*\text{L4r}*\pi^{-2} + \\
& 4/9*\ln(3)^*F^{-4}*\sin x^2*\text{L3r}*\pi^{-2} + 4/9*\ln(3)^*F^{-4}*\sin x^2*\text{L2r}*\pi^{-2} +
\end{aligned}$$

$$\begin{aligned}
& 16/9*\ln(3)*F^{-4}*\sin x^2*L1r*\pi^{-2} + 256/9*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} \\
& + 256/3*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 512/27*\ln(3)*F^{-4}*\sin x^6*L8r*\pi^{-2} \\
& - 512/9*\ln(3)*F^{-4}*\sin x^6*L7r*\pi^{-2} - 61/41472*\ln(3)^2*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x * \cos x * \pi^{-4} + 43/10368*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 5/864*\ln(3)^2*F^{-4} \\
& * \sin x^4*\pi^{-4} - 5/432*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} + 1/81*\ln(3)^2*F^{-4} \\
& * \sin x^8*\pi^{-4} - 1/288*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * \pi^{-4} + \\
& 23/864*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x * \pi^{-4} - 1/54*\ln(3)*\ln(4)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^5*\cos x * \pi^{-4} - 1/10368*\ln(3)*\ln(4)*F^{-4}*\pi^{-4} + 31/5184*\ln(3)*\ln(4)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 59/2592*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + 1/54*\ln(3)*\ln(4)*F^{-4} \\
& * \sin x^6*\pi^{-4} + 17/1728*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * \pi^{-4} - \\
& 23/864*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x * \pi^{-4} + 1/54*\ln(3)*\ln(6)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x^5*\cos x * \pi^{-4} + 1/10368*\ln(3)*\ln(6)*F^{-4}*\pi^{-4} + 31/5184*\ln(3)*\ln(6)*F^{-4} \\
& * \sin x^2*\pi^{-4} - 59/2592*\ln(3)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + 1/54*\ln(3)*\ln(6)*F^{-4} \\
& * \sin x^6*\pi^{-4} + 11/20736*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * \pi^{-4} + \\
& 1/432*\ln(3)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 11/432*\ln(3)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} \\
& + 31/648*\ln(3)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 2/81*\ln(3)*\ln(8)*F^{-4}*\sin x^8*\pi^{-4} \\
& + 185/9216*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * \pi^{-4} - 4/3*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x * \cos x * L8r*\pi^{-2} - 12*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L7r*\pi^{-2} \\
& + 6*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L6r*\pi^{-2} - 4/3*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x * \cos x * L5r*\pi^{-2} - 13/2*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L4r*\pi^{-2} \\
& + 25/8*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L3r*\pi^{-2} + 2*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x * \cos x * L2r*\pi^{-2} + 8*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L1r*\pi^{-2} - \\
& 1/72*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x * \pi^{-4} + 32/3*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x^3*\cos x * L8r*\pi^{-2} + 32*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x * L7r*\pi^{-2} \\
& - 77/82944*\ln(4)*F^{-4}*\pi^{-4} - 16/27*\ln(4)*F^{-4}*\pi^{-4} + 5/9*\ln(4)*F^{-4} \\
& * L7r*\pi^{-2} - 2*\ln(4)*F^{-4}*\pi^{-4} + 7/18*\ln(4)*F^{-4}*\pi^{-4} + 5/9*\ln(4)*F^{-4} \\
& * L5r*\pi^{-2} + 11/6*\ln(4)*F^{-4}*\pi^{-4} - 11/24*\ln(4)*F^{-4}*\pi^{-4} - 1/3*\ln(4)*F^{-4} \\
& * L2r*\pi^{-2} - 4/3*\ln(4)*F^{-4}*\pi^{-4} + 23/41472*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} \\
& + 86/27*\ln(4)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 44/9*\ln(4)*F^{-4}*\sin x^2*L7r*\pi^{-2} \\
& + 4*\ln(4)*F^{-4}*\sin x^2*L6r*\pi^{-2} - 7/9*\ln(4)*F^{-4}*\sin x^2*L5r*\pi^{-2} - \\
& 11/3*\ln(4)*F^{-4}*\sin x^2*L4r*\pi^{-2} + 11/12*\ln(4)*F^{-4}*\sin x^2*L3r*\pi^{-2} \\
& + 2/3*\ln(4)*F^{-4}*\sin x^2*L2r*\pi^{-2} + 8/3*\ln(4)*F^{-4}*\sin x^2*L1r*\pi^{-2} \\
& + 1/648*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} - 32/27*\ln(4)*F^{-4}*\sin x^4*L8r*\pi^{-2} \\
& - 32/9*\ln(4)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 43/9216*\ln(4)^2*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x * \cos x * \pi^{-4} - 1/72*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x * \pi^{-4} - 17/27648*\ln(4)^2*F^{-4} \\
& * \pi^{-4} + 1/4608*\ln(4)^2*F^{-4}*\sin x^2*\pi^{-4} + 7/4608*\ln(4)*\ln(6)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x * \cos x * \pi^{-4} - 25/9216*\ln(4)*\ln(6)*F^{-4}*\pi^{-4} - 1/864*\ln(4)*\ln(6)*F^{-4} \\
& * \sin x^2*\pi^{-4} + 1/216*\ln(4)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + 1/24*\ln(4)*\ln(8)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x * \cos x * \pi^{-4} - 35/864*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x * \pi^{-4} \\
& - 4 + 1/54*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x * \pi^{-4} - 17/2304*\ln(4)*\ln(8)*F^{-4} \\
& * \pi^{-4} + 1/864*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} + 7/288*\ln(4)*\ln(8)*F^{-4} \\
& * \sin x^4*\pi^{-4} - 1/54*\ln(4)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 257/27648*\ln(6)*F^{-4} \\
& * \sqrt{3}^{-1}*\sin x * \cos x * \pi^{-4} + 28/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L8r*\pi^{-2} \\
& + 76/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L7r*\pi^{-2} - 18*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x * \cos x * L6r*\pi^{-2} - 4/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L5r*\pi^{-2} + \\
& 101/6*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x * \cos x * L4r*\pi^{-2} - 113/24*\ln(6)*F^{-4}*\sqrt{3}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x*\cos x*L3r*\pi^{-2} - 10/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} - \\
& 40/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + 1/72*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*\pi^{-4} - 32/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - \\
& 32*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} + 125/82944*\ln(6)*F^{-4}*\pi^{-4} - \\
& 38/27*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - 29/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - \\
& 2*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L6r*\pi^{-2} + 1/6*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L5r*\pi^{-2} + \\
& 3/2*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L4r*\pi^{-2} - 1/8*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L3r*\pi^{-2} + \\
& 23/41472*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L2r*\pi^{-2} + 86/27*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L1r*\pi^{-2} \\
& + 4*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 7/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 11/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 11/12*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& + 2/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 8/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& + 1/648*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 32/27*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& - 32/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 5/3072*\ln(6)^2*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 11/27648*\ln(6)^2*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/4608*\ln(6)^2*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 47/1728*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 35/864*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 4 - 1/54*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 5/768*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + \\
& 7/288*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 1/864*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - \\
& 1/54*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 53/10368*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - \\
& 86/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 22*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + \\
& 44/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 43/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + \\
& 10/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 2/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - \\
& 4/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 4/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - \\
& 1/192*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 412/27*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - \\
& 212/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 56/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - \\
& 100/27*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 22/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - \\
& 4/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 8/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - \\
& 8/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 1/192*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + \\
& 668/27*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 52*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + \\
& 56/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 100/27*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - \\
& 22/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 22/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - \\
& 4/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 8/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + \\
& 8/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 256/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - \\
& 256/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 512/27*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - \\
& 512/9*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 41/13824*\ln(8)^2*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + \\
& 23/3456*\ln(8)^2*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 145/10368*\ln(8)^2*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + \\
& 1/32*\ln(8)^2*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 47/1296*\ln(8)^2*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + \\
& 1/81*\ln(8)^2*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4}) \\
& + \text{mud}*\text{mpp}^2*\text{mkp}^2 \cdot (- 61/20736/(\text{mass}(3))^*\ln(3)^2*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 161/31104/(\text{mass}(3))^*\ln(3)^2*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 5/1944/(\text{mass}(3))^*\ln(3)^2*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 524288/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sqrt{3}^{-1}*\sin x^2*\cos x*\pi^{-2} - 1048576/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sqrt{3}^{-1}*\sin x^2*\cos x*\pi^{-2} - \\
& 524288/3/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sqrt{3}^{-1}*\sin x^2*\cos x*\pi^{-2} + 524288/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sqrt{3}^{-1}*\sin x^2*\cos x*\pi^{-2} + \\
& 1048576/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sqrt{3}^{-1}*\sin x^2*\cos x*\pi^{-2} - 524288/3/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sqrt{3}^{-1}*\sin x^2*\cos x*\pi^{-2} + \\
& 524288/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sqrt{3}^{-1}*\sin x^2*\cos x*\pi^{-2})
\end{aligned}$$

$$\begin{aligned}
& 4*\sin x^4*L7r^2 - 16/9/(mass(3) - mass(8))*ln(1)*F^{-4}*sqrt3^{-1}*\sin x*\cos x*L8r*\pi^{\wedge} - \\
& 2 - 16/3/(mass(3) - mass(8))*ln(1)*F^{-4}*sqrt3^{-1}*\sin x*\cos x*L7r*\pi^{\wedge} - 2 + \\
& 1/864/(mass(3) - mass(8))*ln(1)*ln(3)*F^{-4}*sqrt3^{-1}*\sin x*\cos x*\pi^{\wedge} - 4 - \\
& 1/324/(mass(3) - mass(8))*ln(1)*ln(3)*F^{-4}*sqrt3^{-1}*\sin x*\cos x*\pi^{\wedge} - 4 - \\
& 1/324/(mass(3) - mass(8))*ln(1)*ln(3)*F^{-4}*sqrt3^{-1}*\sin x*\cos x*\pi^{\wedge} - 4 + 1/324/(mass(3) - \\
& mass(8))*ln(1)*ln(3)*F^{-4}*sqrt3^{-1}*\sin x*\cos x*\pi^{\wedge} - 4 - 1/288/(mass(3) - mass(8))*ln(1)*ln(4)*F^{-4} \\
& *sqrt3^{-1}*\sin x*\cos x*\pi^{\wedge} - 4 - 1/3456/(mass(3) - mass(8))*ln(1)*ln(4)*F^{-4} \\
& *pi^{\wedge} - 4 + 1/144/(mass(3) - mass(8))*ln(1)*ln(6)*F^{-4}*sqrt3^{-1}*\sin x*\cos x* \\
& pi^{\wedge} - 4 + 1/3456/(mass(3) - mass(8))*ln(1)*ln(6)*F^{-4}*pi^{\wedge} - 4 + 1/864/(mass(3) \\
& - mass(8))*ln(1)*ln(8)*F^{-4}*sqrt3^{-1}*\sin x*\cos x*\pi^{\wedge} - 4 + 1/324/(mass(3) - \\
& mass(8))*ln(1)*ln(8)*F^{-4}*sqrt3^{-1}*\sin x*\cos x*\pi^{\wedge} - 4 - 1/324/(mass(3) - mass(8))*ln(1)*ln(8)*F^{-4} \\
& *sin x^4*\pi^{\wedge} - 4 + 56/27/(mass(3) - mass(8))*ln(3)*F^{-4}*sqrt3^{-1}*\sin x*\cos x*L8r*\pi^{\wedge} - 2 \\
& + 56/9/(mass(3) - mass(8))*ln(3)*F^{-4}*sqrt3^{-1}*\sin x*\cos x*L7r*\pi^{\wedge} - 2 + \\
& 256/27/(mass(3) - mass(8))*ln(3)*F^{-4}*sin x^2*L8r*\pi^{\wedge} - 2 + 256/9/(mass(3) - \\
& mass(8))*ln(3)*F^{-4}*sin x^2*L7r*\pi^{\wedge} - 2 + 1792/81/(mass(3) - mass(8))*ln(3)*F^{-4} \\
& *sin x^4*L8r*\pi^{\wedge} - 2 + 1792/27/(mass(3) - mass(8))*ln(3)*F^{-4}*sin x^4*L7r*\pi^{\wedge} - 2 - \\
& 2560/81/(mass(3) - mass(8))*ln(3)*F^{-4}*sin x^6*L8r*\pi^{\wedge} - 2 - 2560/27/(mass(3) \\
& - mass(8))*ln(3)*F^{-4}*sin x^6*L7r*\pi^{\wedge} - 2 - 7/5184/(mass(3) - mass(8))*ln(3)^2*F^{-4} \\
& *sqrt3^{-1}*\sin x*\cos x*\pi^{\wedge} - 4 + 1/972/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sin x^4*\pi^{\wedge} - 4 \\
& + 1/243/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sin x^6*\pi^{\wedge} - 4 + 2/243/(mass(3) - \\
& mass(8))*ln(3)^2*F^{-4}*sin x^8*\pi^{\wedge} - 4 + 17/1296/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4} \\
& *sqrt3^{-1}*\sin x*\cos x*\pi^{\wedge} - 4 - 5/648/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4} \\
& *sqrt3^{-1}*\sin x^3*\cos x*\pi^{\wedge} - 4 - 1/54/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4} \\
& *sqrt3^{-1}*\sin x^5*\cos x*\pi^{\wedge} - 4 - 1/2304/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4} \\
& *pi^{\wedge} - 4 - 5/648/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sin x^2*\pi^{\wedge} - 4 - \\
& 5/216/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sin x^4*\pi^{\wedge} - 4 + 5/162/(mass(3) - \\
& mass(8))*ln(3)*ln(4)*F^{-4}*sin x^6*\pi^{\wedge} - 4 - 95/5184/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4} \\
& *sqrt3^{-1}*\sin x*\cos x*\pi^{\wedge} - 4 + 5/648/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4} \\
& *sqrt3^{-1}*\sin x^3*\cos x*\pi^{\wedge} - 4 + 1/54/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4} \\
& *sqrt3^{-1}*\sin x^5*\cos x*\pi^{\wedge} - 4 + 1/2304/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4} \\
& *pi^{\wedge} - 4 - 5/648/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sin x^2*\pi^{\wedge} - 4 - \\
& 5/216/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sin x^4*\pi^{\wedge} - 4 + 5/162/(mass(3) - \\
& mass(8))*ln(3)*ln(6)*F^{-4}*sin x^6*\pi^{\wedge} - 4 - 7/486/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4} \\
& *sin x^2*\pi^{\wedge} - 4 - 1/486/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*sin x^4*\pi^{\wedge} - 4 + \\
& 8/243/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*sin x^6*\pi^{\wedge} - 4 - 4/243/(mass(3) - \\
& mass(8))*ln(3)*ln(8)*F^{-4}*sin x^8*\pi^{\wedge} - 4 - 320/9/(mass(3) - mass(8))*ln(4)*F^{-4} \\
& *sqrt3^{-1}*\sin x*\cos x*L8r*\pi^{\wedge} - 2 - 320/3/(mass(3) - mass(8))*ln(4)*F^{-4} \\
& *sqrt3^{-1}*\sin x*\cos x*L7r*\pi^{\wedge} - 2 + 512/9/(mass(3) - mass(8))*ln(4)*F^{-4} \\
& *sqrt3^{-1}*\sin x^3*\cos x*L8r*\pi^{\wedge} - 2 + 512/3/(mass(3) - mass(8))*ln(4)*F^{-4} \\
& *sqrt3^{-1}*\sin x^3*\cos x*L7r*\pi^{\wedge} - 2 + 28/27/(mass(3) - mass(8))*ln(4)*F^{-4} \\
& *L8r*\pi^{\wedge} - 2 + 28/9/(mass(3) - mass(8))*ln(4)*F^{-4}*L7r*\pi^{\wedge} - 2 + 1024/27/(mass(3) \\
& - mass(8))*ln(4)*F^{-4}*sin x^2*L8r*\pi^{\wedge} - 2 + 1024/9/(mass(3) - mass(8))*ln(4)*F^{-4} \\
& *sin x^2*L7r*\pi^{\wedge} - 2 - 1024/27/(mass(3) - mass(8))*ln(4)*F^{-4}*sin x^4*L8r*\pi^{\wedge} - 2 \\
& - 1024/9/(mass(3) - mass(8))*ln(4)*F^{-4}*sin x^4*L7r*\pi^{\wedge} - 2 + 11/288/(mass(3) \\
& - mass(8))*ln(4)^2*F^{-4}*sqrt3^{-1}*\sin x*\cos x*\pi^{\wedge} - 4 - 1/18/(mass(3) - mass(8))*ln(4)^2*F^{-4} \\
& *sqrt3^{-1}*\sin x^3*\cos x*\pi^{\wedge} - 4 - 1/384/(mass(3) - mass(8))*ln(4)^2*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4\pi^4 - 55/3456/(\text{mass}(3) - \text{mass}(8))\ln(4)^2F^{-4}\sin^2\pi^4 + \\
& 1/54/(\text{mass}(3) - \text{mass}(8))\ln(4)^2F^{-4}\sin^4\pi^4 - 1/288/(\text{mass}(3) \\
& - \text{mass}(8))\ln(4)\ln(6)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^4 + 1/288/(\text{mass}(3) - \\
& \text{mass}(8))\ln(4)\ln(6)F^{-4}\pi^4 - 73/1728/(\text{mass}(3) - \text{mass}(8))\ln(4)\ln(6)F^{-4} \\
& 4\sin^2\pi^4 + 1/27/(\text{mass}(3) - \text{mass}(8))\ln(4)\ln(6)F^{-4}\sin^4\pi^4 \\
& + 43/1296/(\text{mass}(3) - \text{mass}(8))\ln(4)\ln(8)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^4 \\
& - 43/648/(\text{mass}(3) - \text{mass}(8))\ln(4)\ln(8)F^{-4}\sqrt{3}^{-1}\sin^3\cos^*\pi^4 \\
& + 1/54/(\text{mass}(3) - \text{mass}(8))\ln(4)\ln(8)F^{-4}\sqrt{3}^{-1}\sin^5\cos^*\pi^4 \\
& - 19/20736/(\text{mass}(3) - \text{mass}(8))\ln(4)\ln(8)F^{-4}\pi^4 - 1/24/(\text{mass}(3) - \\
& \text{mass}(8))\ln(4)\ln(8)F^{-4}\sin^2\pi^4 + 47/648/(\text{mass}(3) - \text{mass}(8))\ln(4)\ln(8)F^{-4} \\
& 4\sin^4\pi^4 - 5/162/(\text{mass}(3) - \text{mass}(8))\ln(4)\ln(8)F^{-4}\sin^6\pi^4 \\
& + 112/3/(\text{mass}(3) - \text{mass}(8))\ln(6)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*L8r\pi^2 - \\
& + 112/(\text{mass}(3) - \text{mass}(8))\ln(6)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*L7r\pi^2 - \\
& 512/9/(\text{mass}(3) - \text{mass}(8))\ln(6)F^{-4}\sqrt{3}^{-1}\sin^3\cos^*L8r\pi^2 - \\
& - 512/3/(\text{mass}(3) - \text{mass}(8))\ln(6)F^{-4}\sqrt{3}^{-1}\sin^3\cos^*L7r\pi^2 \\
& - 28/27/(\text{mass}(3) - \text{mass}(8))\ln(6)F^{-4}L8r\pi^2 - 28/9/(\text{mass}(3) - \\
& \text{mass}(8))\ln(6)F^{-4}L7r\pi^2 + 1024/27/(\text{mass}(3) - \text{mass}(8))\ln(6)F^{-4} \\
& 4\sin^2L8r\pi^2 + 1024/9/(\text{mass}(3) - \text{mass}(8))\ln(6)F^{-4}\sin^2L7r\pi^2 \\
& - 1024/27/(\text{mass}(3) - \text{mass}(8))\ln(6)F^{-4}\sin^4L8r\pi^2 - 1024/9/(\text{mass}(3) \\
& - \text{mass}(8))\ln(6)F^{-4}\sin^4L7r\pi^2 - 11/288/(\text{mass}(3) - \text{mass}(8))\ln(6)^2F^{-4} \\
& 4\sqrt{3}^{-1}\sin^*\cos^*\pi^4 + 1/18/(\text{mass}(3) - \text{mass}(8))\ln(6)^2F^{-4} \\
& 4\sqrt{3}^{-1}\sin^3\cos^*\pi^4 - 1/1152/(\text{mass}(3) - \text{mass}(8))\ln(6)^2F^{-4} \\
& 4\pi^4 - 55/3456/(\text{mass}(3) - \text{mass}(8))\ln(6)^2F^{-4}\sin^2\pi^4 + \\
& 1/54/(\text{mass}(3) - \text{mass}(8))\ln(6)^2F^{-4}\sin^4\pi^4 - 157/5184/(\text{mass}(3) \\
& - \text{mass}(8))\ln(6)\ln(8)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^4 + 43/648/(\text{mass}(3) \\
& - \text{mass}(8))\ln(6)\ln(8)F^{-4}\sqrt{3}^{-1}\sin^3\cos^*\pi^4 - 1/54/(\text{mass}(3) - \\
& \text{mass}(8))\ln(6)\ln(8)F^{-4}\sqrt{3}^{-1}\sin^5\cos^*\pi^4 + 19/20736/(\text{mass}(3) \\
& - \text{mass}(8))\ln(6)\ln(8)F^{-4}\pi^4 - 1/24/(\text{mass}(3) - \text{mass}(8))\ln(6)\ln(8)F^{-4} \\
& 4\sin^2\pi^4 + 47/648/(\text{mass}(3) - \text{mass}(8))\ln(6)\ln(8)F^{-4}\sin^4\pi^4 \\
& - 5/162/(\text{mass}(3) - \text{mass}(8))\ln(6)\ln(8)F^{-4}\sin^6\pi^4 - 56/27/(\text{mass}(3) \\
& - \text{mass}(8))\ln(8)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*L8r\pi^2 - 56/9/(\text{mass}(3) - \\
& \text{mass}(8))\ln(8)F^{-4}\sqrt{3}^{-1}\sin^*\cos^*L7r\pi^2 + 3328/81/(\text{mass}(3) - \\
& \text{mass}(8))\ln(8)F^{-4}\sin^2L8r\pi^2 + 3328/27/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4} \\
& 4\sin^2L7r\pi^2 - 5888/81/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4}\sin^4L8r\pi^2 \\
& - 5888/27/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4}\sin^4L7r\pi^2 + 2560/81/(\text{mass}(3) \\
& - \text{mass}(8))\ln(8)F^{-4}\sin^6L8r\pi^2 + 2560/27/(\text{mass}(3) - \text{mass}(8))\ln(8)F^{-4} \\
& 4\sin^6L7r\pi^2 + 7/5184/(\text{mass}(3) - \text{mass}(8))\ln(8)^2F^{-4}\sqrt{3}^{-1} \\
& \sin^*\cos^*\pi^4 - 19/972/(\text{mass}(3) - \text{mass}(8))\ln(8)^2F^{-4}\sin^2\pi^4 \\
& + 47/972/(\text{mass}(3) - \text{mass}(8))\ln(8)^2F^{-4}\sin^4\pi^4 - 1/27/(\text{mass}(3) - \\
& \text{mass}(8))\ln(8)^2F^{-4}\sin^6\pi^4 + 2/243/(\text{mass}(3) - \text{mass}(8))\ln(8)^2F^{-4} \\
& 4\sin^8\pi^4 + 47/1536/(\text{mass}(4))\ln(4)^2F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^4 \\
& - 53/12288/(\text{mass}(4))\ln(4)^2F^{-4}\pi^4 + 13/2048/(\text{mass}(4))\ln(4)^2F^{-4} \\
& 4\sin^2\pi^4 + 35/1536/(\text{mass}(5))\ln(4)^2F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^4 \\
& - 53/12288/(\text{mass}(5))\ln(4)^2F^{-4}\pi^4 + 13/2048/(\text{mass}(5))\ln(4)^2F^{-4} \\
& 4\sin^2\pi^4 - 7/192/(\text{mass}(6))\ln(6)^2F^{-4}\sqrt{3}^{-1}\sin^*\cos^*\pi^4 \\
& - 15/4096/(\text{mass}(6))\ln(6)^2F^{-4}\pi^4 + 13/2048/(\text{mass}(6))\ln(6)^2F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2*\pi^{\wedge-4} - 11/384/(\text{mass}(7))^*\ln(6)^2*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\pi^{\wedge-4} \\
& - 53/12288/(\text{mass}(7))^*\ln(6)^2*\text{F}^{\wedge-4}*\pi^{\wedge-4} + 13/2048/(\text{mass}(7))^*\ln(6)^2*\text{F}^{\wedge-4} \\
& 4^*\sin x^2*\pi^{\wedge-4} - 239/10368/(\text{mass}(8))^*\ln(8)^2*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\pi^{\wedge-4} \\
& - 349/7776/(\text{mass}(8))^*\ln(8)^2*\text{F}^{\wedge-4}*\pi^{\wedge-4} + 329/7776/(\text{mass}(8))^*\ln(8)^2*\text{F}^{\wedge-4} \\
& 4^*\sin x^2*\pi^{\wedge-4} + 5/1944/(\text{mass}(8))^*\ln(8)^2*\text{F}^{\wedge-4}*\sin x^4*\pi^{\wedge-4}) \\
& + \text{mud}*\text{mpp}2^2 * (+ 30073/663552*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\pi^{\wedge-4} \\
& + 4055/497664*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\pi^{\wedge-2} + 124/27*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1} \\
& 1^*\sin x*\cos x*\text{L}8*\pi^{\wedge-2} + 20/3*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}7*\pi^{\wedge-2} + 8/3*\text{F}^{\wedge-4} \\
& 4^*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}6*\pi^{\wedge-2} - 32/27*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}5*\pi^{\wedge-2} \\
& 2 + 6400/9*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}5*\text{L}8 + 3584/3*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1} \\
& 1^*\sin x*\cos x*\text{L}5*\text{L}7 + 512/3*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}5*\text{L}6 - 1408/9*\text{F}^{\wedge-4} \\
& 4^*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}5^{\wedge 2} - 4/3*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}4*\pi^{\wedge-2} + \\
& 2048/3*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}4*\text{L}8 + 1536*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}4*\text{L}7 \\
& + 256*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}4*\text{L}6 - 512/3*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}4*\text{L}5 \\
& - 128*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}4^{\wedge 2} - 113/216*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}3*\pi^{\wedge-2} \\
& - 59/36*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}2*\pi^{\wedge-2} - 11/18*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}1*\pi^{\wedge-2} \\
& - 1280/3*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{CC}33 - 512/3*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{CC}32 \\
& - 320*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{CC}31 - 96*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{CC}21 - \\
& 352*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{CC}20 - 480*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{CC}19 + \\
& 448/3*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{CC}18 + 800/9*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{CC}17 \\
& + 544/3*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{CC}16 + 64/3*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{CC}15 \\
& + 800/9*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{CC}14 + 128/3*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{CC}13 \\
& + 704/9*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{CC}12 + 4133/663552*\text{F}^{\wedge-4}*\pi^{\wedge-4} + \\
& 269/248832*\text{F}^{\wedge-4}*\pi^{\wedge-2} + 26/27*\text{F}^{\wedge-4}*\text{L}8*\pi^{\wedge-2} + 20/9*\text{F}^{\wedge-4}*\text{L}7*\pi^{\wedge-2} \\
& + 2/9*\text{F}^{\wedge-4}*\text{L}6*\pi^{\wedge-2} - 1/9*\text{F}^{\wedge-4}*\text{L}5*\pi^{\wedge-2} + 1280/9*\text{F}^{\wedge-4}*\text{L}5*\text{L}8 + \\
& 1024/3*\text{F}^{\wedge-4}*\text{L}5*\text{L}7 - 128/3*\text{F}^{\wedge-4}*\text{L}5*\text{L}6 - 128/9*\text{F}^{\wedge-4}*\text{L}5^{\wedge 2} - 1/9*\text{F}^{\wedge-4} \\
& 4^*\text{L}4*\pi^{\wedge-2} - 128/3*\text{F}^{\wedge-4}*\text{L}4*\text{L}8 + 128/3*\text{F}^{\wedge-4}*\text{L}4*\text{L}5 - 1/9*\text{F}^{\wedge-4}*\text{L}3*\pi^{\wedge-2} \\
& - 11/36*\text{F}^{\wedge-4}*\text{L}2*\pi^{\wedge-2} - 1/18*\text{F}^{\wedge-4}*\text{L}1*\pi^{\wedge-2} - 256/3*\text{F}^{\wedge-4}*\text{CC}33 + \\
& 32/3*\text{F}^{\wedge-4}*\text{CC}32 - 64*\text{F}^{\wedge-4}*\text{CC}31 - 32*\text{F}^{\wedge-4}*\text{CC}20 - 96*\text{F}^{\wedge-4}*\text{CC}19 + \\
& 128/3*\text{F}^{\wedge-4}*\text{CC}18 + 160/9*\text{F}^{\wedge-4}*\text{CC}17 + 128/3*\text{F}^{\wedge-4}*\text{CC}16 - 16/3*\text{F}^{\wedge-4} \\
& 4^*\text{CC}15 + 160/9*\text{F}^{\wedge-4}*\text{CC}14 - 32/3*\text{F}^{\wedge-4}*\text{CC}13 + 64/9*\text{F}^{\wedge-4}*\text{CC}12 - \\
& 3299/663552*\text{F}^{\wedge-4}*\sin x^2*\pi^{\wedge-4} - 427/497664*\text{F}^{\wedge-4}*\sin x^2*\pi^{\wedge-2} - 32/27*\text{F}^{\wedge-4} \\
& 4^*\sin x^2*\text{L}8*\pi^{\wedge-2} - 8/3*\text{F}^{\wedge-4}*\sin x^2*\text{L}7*\pi^{\wedge-2} - 2/3*\text{F}^{\wedge-4}*\sin x^2*\text{L}6*\pi^{\wedge-2} \\
& + 4/27*\text{F}^{\wedge-4}*\sin x^2*\text{L}5*\pi^{\wedge-2} - 1280/9*\text{F}^{\wedge-4}*\sin x^2*\text{L}5*\text{L}8 - 1024/3*\text{F}^{\wedge-4} \\
& 4^*\sin x^2*\text{L}5*\text{L}7 + 512/3*\text{F}^{\wedge-4}*\sin x^2*\text{L}5*\text{L}6 + 128/9*\text{F}^{\wedge-4}*\sin x^2*\text{L}5^{\wedge 2} \\
& + 1/3*\text{F}^{\wedge-4}*\sin x^2*\text{L}4*\pi^{\wedge-2} + 512/3*\text{F}^{\wedge-4}*\sin x^2*\text{L}4*\text{L}8 + 256*\text{F}^{\wedge-4} \\
& 4^*\sin x^2*\text{L}4*\text{L}6 - 512/3*\text{F}^{\wedge-4}*\sin x^2*\text{L}4*\text{L}5 - 128*\text{F}^{\wedge-4}*\sin x^2*\text{L}4^{\wedge 2} \\
& + 7/54*\text{F}^{\wedge-4}*\sin x^2*\text{L}3*\pi^{\wedge-2} + 13/36*\text{F}^{\wedge-4}*\sin x^2*\text{L}2*\pi^{\wedge-2} + 1/18*\text{F}^{\wedge-4} \\
& 4^*\sin x^2*\text{L}1*\pi^{\wedge-2} + 256/3*\text{F}^{\wedge-4}*\sin x^2*\text{CC}33 - 128/3*\text{F}^{\wedge-4}*\sin x^2*\text{CC}32 \\
& + 64*\text{F}^{\wedge-4}*\sin x^2*\text{CC}31 - 96*\text{F}^{\wedge-4}*\sin x^2*\text{CC}21 + 32*\text{F}^{\wedge-4}*\sin x^2*\text{CC}20 + \\
& 96*\text{F}^{\wedge-4}*\sin x^2*\text{CC}19 - 128/3*\text{F}^{\wedge-4}*\sin x^2*\text{CC}18 - 160/9*\text{F}^{\wedge-4}*\sin x^2*\text{CC}17 - \\
& 224/3*\text{F}^{\wedge-4}*\sin x^2*\text{CC}16 + 64/3*\text{F}^{\wedge-4}*\sin x^2*\text{CC}15 - 160/9*\text{F}^{\wedge-4}*\sin x^2*\text{CC}14 \\
& + 128/3*\text{F}^{\wedge-4}*\sin x^2*\text{CC}13 - 64/9*\text{F}^{\wedge-4}*\sin x^2*\text{CC}12 + 31/4608*\ln(1)*\text{F}^{\wedge-4} \\
& 4^*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\pi^{\wedge-4} + 4*\ln(1)*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}8*\pi^{\wedge-2} \\
& + 4*\ln(1)*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}*\sin x*\cos x*\text{L}7*\pi^{\wedge-2} + 4*\ln(1)*\text{F}^{\wedge-4}*\sqrt{3}^{\wedge-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x*\cos x*L6r*\pi^{-2} - 4/3*\ln(1)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} \\
& - 4*\ln(1)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + 3/2*\ln(1)*F^{-4}*\sqrt{3}^{-1} \\
& *1*\sin x*\cos x*L3r*\pi^{-2} + \ln(1)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} + \\
& 4*\ln(1)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - 1/1728*\ln(1)*F^{-4}*\pi^{-4} - \\
& 4/3*\ln(1)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 2*\ln(1)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} - 2/9*\ln(1)*F^{-4}*\sqrt{3}^{-1} \\
& *L5r*\pi^{-2} - 11/6*\ln(1)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + 1/3*\ln(1)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} + 1/3*\ln(1)*F^{-4} \\
& *L2r*\pi^{-2} + 4/3*\ln(1)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - 23/41472*\ln(1)*F^{-4}*\sin x^2*\pi^{-4} \\
& + 64/27*\ln(1)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 76/9*\ln(1)*F^{-4}*\sin x^2*L7r*\pi^{-2} \\
& - 4*\ln(1)*F^{-4}*\sin x^2*L6r*\pi^{-2} + 2/9*\ln(1)*F^{-4}*\sin x^2*L5r*\pi^{-2} \\
& + 10/3*\ln(1)*F^{-4}*\sin x^2*L4r*\pi^{-2} - 1/3*\ln(1)*F^{-4}*\sin x^2*L3r*\pi^{-2} \\
& - 1/3*\ln(1)*F^{-4}*\sin x^2*L2r*\pi^{-2} - 4/3*\ln(1)*F^{-4}*\sin x^2*L1r*\pi^{-2} \\
& + 1/324*\ln(1)*F^{-4}*\sin x^4*\pi^{-4} - 64/27*\ln(1)*F^{-4}*\sin x^4*L8r*\pi^{-2} \\
& - 64/9*\ln(1)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 1/2304*\ln(1)^2*F^{-4}*\sqrt{3}^{-1} \\
& *1*\sin x*\cos x*\pi^{-4} + 1/192*\ln(1)*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& - 59/10368*\ln(1)*\ln(3)*F^{-4}*\sin x^2*\pi^{-4} + 29/2592*\ln(1)*\ln(3)*F^{-4} \\
& *4*\sin x^4*\pi^{-4} - 1/216*\ln(1)*\ln(3)*F^{-4}*\sin x^6*\pi^{-4} - 25/9216*\ln(1)*\ln(4)*F^{-4} \\
& *4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/288*\ln(1)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& + 17/18432*\ln(1)*\ln(4)*F^{-4}*\pi^{-4} - 91/27648*\ln(1)*\ln(4)*F^{-4}*\sin x^2*\pi^{-4} \\
& + 1/432*\ln(1)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + 71/9216*\ln(1)*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& *1*\sin x*\cos x*\pi^{-4} - 1/288*\ln(1)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + \\
& 19/18432*\ln(1)*\ln(6)*F^{-4}*\pi^{-4} - 91/27648*\ln(1)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} \\
& + 1/432*\ln(1)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + 1/72*\ln(1)*\ln(8)*F^{-4}*\sqrt{3}^{-1} \\
& *1*\sin x*\cos x*\pi^{-4} - 1/1152*\ln(1)*\ln(8)*F^{-4}*\pi^{-4} + 5/1152*\ln(1)*\ln(8)*F^{-4} \\
& *4*\sin x^2*\pi^{-4} - 7/864*\ln(1)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 1/216*\ln(1)*\ln(8)*F^{-4} \\
& *4*\sin x^6*\pi^{-4} - 1/2592*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 4/27*\ln(3)*F^{-4} \\
& *4*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 34/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} \\
& + 8/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} - 5/9*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& *1*\sin x*\cos x*L5r*\pi^{-2} - 43/18*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + \\
& 7/18*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} + 7/18*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& *1*\sin x*\cos x*L2r*\pi^{-2} + 14/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - \\
& 1/3456*\ln(3)*F^{-4}*\pi^{-4} - 2/3*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + \ln(3)*F^{-4} \\
& *L6r*\pi^{-2} - 1/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} - 11/12*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& *L4r*\pi^{-2} + 1/6*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} + 1/6*\ln(3)*F^{-4} \\
& *L2r*\pi^{-2} + 1/6*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - \\
& 1/1296*\ln(3)*F^{-4}*\sin x^2*\pi^{-4} + 62/27*\ln(3)*F^{-4}*\sin x^2*L8r*\pi^{-2} + \\
& 12*\ln(3)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 28/9*\ln(3)*F^{-4}*\sin x^2*L6r*\pi^{-2} + \\
& 23/27*\ln(3)*F^{-4}*\sin x^2*L5r*\pi^{-2} + 47/18*\ln(3)*F^{-4}*\sin x^2*L4r*\pi^{-2} \\
& - 5/18*\ln(3)*F^{-4}*\sin x^2*L3r*\pi^{-2} - 5/18*\ln(3)*F^{-4}*\sin x^2*L2r*\pi^{-2} \\
& - 10/9*\ln(3)*F^{-4}*\sin x^2*L1r*\pi^{-2} + 1/648*\ln(3)*F^{-4}*\sin x^4*\pi^{-4} - \\
& 104/9*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} - 352/9*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} \\
& + 16/9*\ln(3)*F^{-4}*\sin x^4*L6r*\pi^{-2} - 20/27*\ln(3)*F^{-4}*\sin x^4*L5r*\pi^{-2} \\
& - 4/3*\ln(3)*F^{-4}*\sin x^4*L4r*\pi^{-2} + 256/27*\ln(3)*F^{-4}*\sin x^6*L8r*\pi^{-2} \\
& + 256/9*\ln(3)*F^{-4}*\sin x^6*L7r*\pi^{-2} - 35/82944*\ln(3)^2*F^{-4}*\sqrt{3}^{-1} \\
& *1*\sin x*\cos x*\pi^{-4} - 5/2592*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} + 85/10368*\ln(3)^2*F^{-4} \\
& *4*\sin x^4*\pi^{-4} - 31/5184*\ln(3)^2*F^{-4}*\sin x^6*\pi^{-4} - 31/13824*\ln(3)*\ln(4)*F^{-4} \\
& *4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 17/3456*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& - 1/432*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 41/41472*\ln(3)*\ln(4)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\pi^4} - 239/41472 \ln(3) \ln(4) F^{-4} \sin^2 \pi^4 + 125/10368 \ln(3) \ln(4) F^{-4} \sin^4 \pi^4 - 1/144 \ln(3) \ln(4) F^{-4} \sin^6 \pi^4 + 53/13824 \ln(3) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 - 17/3456 \ln(3) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^3 \pi^4 \cos \pi^4 + 1/432 \ln(3) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^5 \pi^4 \cos \pi^4 - 1/82944 \ln(3) \ln(6) F^{-4} \pi^4 - 239/41472 \ln(3) \ln(6) F^{-4} \sin^2 \pi^4 + 125/10368 \ln(3) \ln(6) F^{-4} \sin^4 \pi^4 - 1/144 \ln(3) \ln(6) F^{-4} \sin^6 \pi^4 + 7/41472 \ln(3) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 - 1/2304 \ln(3) \ln(8) F^{-4} \pi^4 + 5/5184 \ln(3) \ln(8) F^{-4} \sin^2 \pi^4 - 1/1728 \ln(3) \ln(8) F^{-4} \sin^4 \pi^4 - 1/2592 \ln(3) \ln(8) F^{-4} \sin^6 \pi^4 - 7/2304 \ln(4) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos \pi^4 + 7/9 \ln(4) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_8 \pi^2 + 14/3 \ln(4) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_7 \pi^2 - 2 \ln(4) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_6 \pi^2 + 7/18 \ln(4) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_5 \pi^2 + 11/6 \ln(4) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_4 \pi^2 - 11/24 \ln(4) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_3 \pi^2 - 1/3 \ln(4) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_2 \pi^2 - 4/3 \ln(4) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_1 \pi^2 + 1/216 \ln(4) F^{-4} \sqrt{3}^{-1} \sin^3 \pi^4 \cos^2 \pi^4 - 32/9 \ln(4) F^{-4} \sqrt{3}^{-1} \sin^3 \pi^4 \cos^2 L_8 \pi^2 - 32/3 \ln(4) F^{-4} \sqrt{3}^{-1} \sin^3 \pi^4 \cos^2 L_7 \pi^2 + 5/165888 \ln(4) F^{-4} \pi^4 - 4/27 \ln(4) F^{-4} L_8 \pi^2 - 4/9 \ln(4) F^{-4} L_7 \pi^2 + 155/82944 \ln(4) F^{-4} \sin^2 \pi^4 - 32/27 \ln(4) F^{-4} \sin^2 L_8 \pi^2 - 32/9 \ln(4) F^{-4} \sin^2 L_7 \pi^2 - 1/648 \ln(4) F^{-4} \sin^4 \pi^4 + 32/27 \ln(4) F^{-4} \sin^4 L_8 \pi^2 + 32/9 \ln(4) F^{-4} \sin^4 L_7 \pi^2 - 1/1024 \ln(4)^2 F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 \pi^4 + 1/576 \ln(4)^2 F^{-4} \sqrt{3}^{-1} \sin^3 \pi^4 \cos^2 \pi^4 - 1/13824 \ln(4)^2 F^{-4} \pi^4 + 1/576 \ln(4)^2 F^{-4} \sin^2 \pi^4 - 1/576 \ln(4)^2 F^{-4} \sin^4 \pi^4 - 1/576 \ln(4) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 \pi^4 + 1/864 \ln(4) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_8 \pi^2 - 1/864 \ln(4) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_7 \pi^2 - 35/6912 \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 \pi^4 - 1/3456 \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_8 \pi^2 + 1/432 \ln(4) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_7 \pi^2 - 13/27648 \ln(4) \ln(8) F^{-4} \pi^4 + 23/3456 \ln(4) \ln(8) F^{-4} \sin^2 \pi^4 - 47/3456 \ln(4) \ln(8) F^{-4} \sin^4 \pi^4 + 1/144 \ln(4) \ln(8) F^{-4} \sin^6 \pi^4 + 5/864 \ln(6) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_8 \pi^2 + 11/9 \ln(6) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_7 \pi^2 - 10/3 \ln(6) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_6 \pi^2 + 6 \ln(6) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_5 \pi^2 - 11/2 \ln(6) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_4 \pi^2 + 11/8 \ln(6) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_3 \pi^2 + \ln(6) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_2 \pi^2 + 4 \ln(6) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_1 \pi^2 - 1/216 \ln(6) F^{-4} \sqrt{3}^{-1} \sin^3 \pi^4 \cos^2 \pi^4 + 32/9 \ln(6) F^{-4} \sqrt{3}^{-1} \sin^3 \pi^4 \cos^2 L_8 \pi^2 + 32/3 \ln(6) F^{-4} \sqrt{3}^{-1} \sin^3 \pi^4 \cos^2 L_7 \pi^2 - 113/165888 \ln(6) F^{-4} \pi^4 + 4/27 \ln(6) F^{-4} L_8 \pi^2 + 4/9 \ln(6) F^{-4} L_7 \pi^2 + 155/82944 \ln(6) F^{-4} \sin^2 \pi^4 - 32/27 \ln(6) F^{-4} \sin^2 L_8 \pi^2 - 32/9 \ln(6) F^{-4} \sin^2 L_7 \pi^2 - 1/648 \ln(6) F^{-4} \sin^4 \pi^4 + 32/27 \ln(6) F^{-4} \sin^4 L_8 \pi^2 + 32/9 \ln(6) F^{-4} \sin^4 L_7 \pi^2 + 11/9216 \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 \pi^4 - 1/576 \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin^3 \pi^4 \cos^2 \pi^4 + 1/13824 \ln(6)^2 F^{-4} \pi^4 + 1/576 \ln(6)^2 F^{-4} \sin^2 \pi^4 - 1/576 \ln(6)^2 F^{-4} \sin^4 \pi^4 + 25/2304 \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 \pi^4 + 1/3456 \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_8 \pi^2 - 1/432 \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin^2 \pi^4 \cos^2 L_7 \pi^2 + 5/3456 \ln(6) \ln(8) F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\pi^4} + 23/3456 \ln(6) \ln(8) F^{-4} \sin^2 \pi^4 - 47/3456 \ln(6) \ln(8) F^{-4} \sin^4 \pi^4 + 1/144 \ln(6) \ln(8) F^{-4} \sin^6 \pi^4 - 35/5184 \ln(8) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* \pi^4 + 184/9 \ln(8) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* L8r \pi^2 - \\
& 94/3 \ln(8) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* L7r \pi^2 + 92/9 \ln(8) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* L6r \pi^2 - 5 \ln(8) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* L5r \pi^2 - \\
& 83/18 \ln(8) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* L4r \pi^2 + 11/6 \ln(8) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* L3r \pi^2 + 11/3 \ln(8) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* L2r \pi^2 - \\
& 11/3 \ln(8) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* L1r \pi^2 - 11/10368 \ln(8) F^{-4} \pi^4 + 94/27 \ln(8) F^{-4} L8r \pi^2 + 64/9 \ln(8) F^{-4} L7r \pi^2 + \\
& 1/9 \ln(8) F^{-4} L6r \pi^2 - 5/9 \ln(8) F^{-4} L5r \pi^2 + 7/36 \ln(8) F^{-4} L4r \pi^2 + 1/6 \ln(8) F^{-4} L3r \pi^2 + 1/3 \ln(8) F^{-4} L2r \pi^2 + \\
& 1/3 \ln(8) F^{-4} L1r \pi^2 + 1/384 \ln(8) F^{-4} \sin^2 \pi^4 - 50/9 \ln(8) F^{-4} \sin^2 L8r \pi^2 - 160/9 \ln(8) F^{-4} \sin^2 L7r \pi^2 + 8/3 \ln(8) F^{-4} \sin^2 L6r \pi^2 - \\
& 5/27 \ln(8) F^{-4} \sin^2 L5r \pi^2 - 41/18 \ln(8) F^{-4} \sin^2 L4r \pi^2 - 1/6 \ln(8) F^{-4} \sin^2 L3r \pi^2 - 1/3 \ln(8) F^{-4} \sin^2 L2r \pi^2 - 1/3 \ln(8) F^{-4} \sin^2 L1r \pi^2 - \\
& 1/648 \ln(8) F^{-4} \sin^4 \pi^4 + 104/9 \ln(8) F^{-4} \sin^4 L8r \pi^2 + 352/9 \ln(8) F^{-4} \sin^4 L7r \pi^2 - 16/9 \ln(8) F^{-4} \sin^4 L6r \pi^2 + 20/27 \ln(8) F^{-4} \sin^4 L5r \pi^2 + \\
& 4/3 \ln(8) F^{-4} \sin^4 L4r \pi^2 - 256/27 \ln(8) F^{-4} \sin^6 L8r \pi^2 - 256/9 \ln(8) F^{-4} \sin^6 L7r \pi^2 - 265/27648 \ln(8)^2 F^{-4} \sqrt{3}^{-1} \sin^* \cos^* \pi^4 - \\
& 1/864 \ln(8)^2 F^{-4} \pi^4 + 25/10368 \ln(8)^2 F^{-4} \sin^2 \pi^4 - 79/10368 \ln(8)^2 F^{-4} \sin^4 \pi^4 + 11/1728 \ln(8)^2 F^{-4} \sin^6 \pi^4) \\
& + \text{mud}^* \text{mpp}^2 \text{mkp}^2 * (- 5/1536 / (\text{mass}(1)) \ln(1)^2 F^{-4} \sqrt{3}^{-1} \sin^* \cos^* \pi^4 - \\
& 4 - 5/1536 / (\text{mass}(2)) \ln(1)^2 F^{-4} \sqrt{3}^{-1} \sin^* \cos^* \pi^4 + 73/41472 / (\text{mass}(3)) \ln(3)^2 F^{-4} \sqrt{3}^{-1} \sin^* \cos^* \pi^4 - \\
& 181/62208 / (\text{mass}(3)) \ln(3)^2 F^{-4} \sin^2 \pi^4 + 5/1944 / (\text{mass}(3)) \ln(3)^2 F^{-4} \sin^4 \pi^4 + 524288/27 / (\text{mass}(3) \\
& - \text{mass}(8)) F^{-4} \sin^2 L8r^2 + 1048576/9 / (\text{mass}(3) - \text{mass}(8)) F^{-4} \sin^2 L7r L8r + 524288/3 / (\text{mass}(3) - \text{mass}(8)) F^{-4} \sin^2 L7r^2 - \\
& 524288/27 / (\text{mass}(3) - \text{mass}(8)) F^{-4} \sin^4 L8r^2 - 1048576/9 / (\text{mass}(3) - \text{mass}(8)) F^{-4} \sin^4 L7r L8r - 524288/3 / (\text{mass}(3) - \text{mass}(8)) F^{-4} \sin^4 L7r^2 + \\
& 32/9 / (\text{mass}(3) - \text{mass}(8)) \ln(1) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* L8r \pi^2 + 32/3 / (\text{mass}(3) - \text{mass}(8)) \ln(1) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* L7r \pi^2 - \\
& 256/27 / (\text{mass}(3) - \text{mass}(8)) \ln(1) F^{-4} \sin^2 L8r \pi^2 - 256/9 / (\text{mass}(3) - \text{mass}(8)) \ln(1) F^{-4} \sin^2 L7r \pi^2 + 256/27 / (\text{mass}(3) - \text{mass}(8)) \ln(1) F^{-4} \sin^4 L8r \pi^2 + \\
& 256/9 / (\text{mass}(3) - \text{mass}(8)) \ln(1) F^{-4} \sin^4 L7r \pi^2 - 1/864 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(3) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* \pi^4 + 1/324 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(3) F^{-4} \sin^2 \pi^4 + \\
& 1/108 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(3) F^{-4} \sin^4 \pi^4 - 1/81 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(3) F^{-4} \sin^6 \pi^4 - 5/288 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(4) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* \pi^4 + \\
& 1/36 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(4) F^{-4} \sqrt{3}^{-1} \sin^3 \cos^* \pi^4 + 1/864 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(4) F^{-4} \pi^4 + 1/108 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(4) F^{-4} \sin^2 \pi^4 - \\
& 1/108 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(4) F^{-4} \sin^4 \pi^4 + 1/96 / (\text{mass}(3) - \text{mass}(8)) \ln(1) \ln(6) F^{-4} \sqrt{3}^{-1} \sin^* \cos^* \pi^4 - 1/36 / (\text{mass}(3) -
\end{aligned}$$

$$\begin{aligned}
& \text{mass}(8) * \ln(1) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x * \pi^{-4} - 1/864 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(1) * \ln(6) * F^{-4} * \pi^{-4} + 1/108 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(6) * F^{-4} * \\
& \sin^2 * \pi^{-4} - 1/108 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(6) * F^{-4} * \sin^4 * \pi^{-4} - \\
& 1/288 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + \\
& 1/108 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \sin^2 * \pi^{-4} - 7/324 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \sin^4 * \pi^{-4} + 1/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \\
& \sin^6 * \pi^{-4} - 512/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^2 * L8r * \pi^{-2} - \\
& 512/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^2 * L7r * \pi^{-2} + 512/81 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * F^{-4} * \sin^4 * L8r * \pi^{-2} + 512/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \\
& \sin^4 * L7r * \pi^{-2} + 1024/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^6 * L8r * \pi^{-2} \\
& + 1024/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^6 * L7r * \pi^{-2} + 7/1944 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^2 * \pi^{-4} + 17/1944 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \\
& \sin^4 * \pi^{-4} - 4/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^6 * \pi^{-4} + \\
& 1/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^8 * \pi^{-4} - 11/1296 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 17/648 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x * \pi^{-4} - 1/54 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^5 * \cos x * \pi^{-4} - 7/20736 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \pi^{-4} + 11/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \\
& \sin^2 * \pi^{-4} - 7/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sin^4 * \pi^{-4} - \\
& 1/162 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(4) * F^{-4} * \sin^6 * \pi^{-4} + 25/2592 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - 17/648 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x * \pi^{-4} + 1/54 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^5 * \cos x * \pi^{-4} + 7/20736 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \pi^{-4} + 11/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \\
& \sin^2 * \pi^{-4} - 7/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sin^4 * \pi^{-4} \\
& - 1/162 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(6) * F^{-4} * \sin^6 * \pi^{-4} + 17/972 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \sin^2 * \pi^{-4} - 25/972 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \\
& \sin^4 * \pi^{-4} + 4/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \sin^6 * \pi^{-4} \\
& - 2/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * \ln(8) * F^{-4} * \sin^8 * \pi^{-4} + 32/3 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L8r * \pi^{-2} + 32 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L7r * \pi^{-2} - 128/9 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x * L8r * \pi^{-2} - 128/3 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x * L7r * \pi^{-2} + 16/27 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(4) * F^{-4} * L8r * \pi^{-2} + 16/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \\
& L7r * \pi^{-2} - 896/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sin^2 * L8r * \pi^{-2} - \\
& 896/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sin^2 * L7r * \pi^{-2} + 896/27 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(4) * F^{-4} * \sin^4 * L8r * \pi^{-2} + 896/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \\
& \sin^4 * L7r * \pi^{-2} - 1/384 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \\
& \sin x * \cos x * \pi^{-4} - 7/6912 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \pi^{-4} + \\
& 1/54 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * F^{-4} * \sin^2 * \pi^{-4} - 1/54 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(4) * F^{-4} * \sin^4 * \pi^{-4} + 1/576 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(6) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - 1/3456 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(6) * F^{-4} * \\
& \pi^{-4} + 1/54 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(6) * F^{-4} * \sin^2 * \pi^{-4} - \\
& 1/54 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(6) * F^{-4} * \sin^4 * \pi^{-4} - 7/1296 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - 5/648 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos x * \pi^{-4} + 1/54 / (\text{mass}(3) -
\end{aligned}$$

$$\begin{aligned}
& \text{mass}(8) * \ln(4) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^5 x * \cos x * \pi^{-4} - 1/2304 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \pi^{-4} + 17/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \\
& \sin^2 x * \pi^{-4} - 7/216 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \sin^4 x * \pi^{-4} + \\
& 1/162 / (\text{mass}(3) - \text{mass}(8)) * \ln(4) * \ln(8) * F^{-4} * \sin^6 x * \pi^{-4} - 128/9 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L8r * \pi^{-2} - 128/3 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L7r * \pi^{-2} + 128/9 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^3 x * \cos x * L8r * \pi^{-2} + 128/3 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^3 x * \cos x * L7r * \pi^{-2} - 16/27 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(6) * F^{-4} * L8r * \pi^{-2} - 16/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \\
& L7r * \pi^{-2} - 896/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sin^2 x * L8r * \pi^{-2} - \\
& 896/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sin^2 x * L7r * \pi^{-2} + 896/27 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6) * F^{-4} * \sin^4 x * L8r * \pi^{-2} + 896/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \\
& \sin^4 x * L7r * \pi^{-2} + 1/128 / (\text{mass}(3) - \text{mass}(8)) * \ln(6)^2 * F^{-4} * \sqrt{3}^{-1} * \\
& \sin x * \cos x * \pi^{-4} + 1/768 / (\text{mass}(3) - \text{mass}(8)) * \ln(6)^2 * F^{-4} * \pi^{-4} + \\
& 1/54 / (\text{mass}(3) - \text{mass}(8)) * \ln(6)^2 * F^{-4} * \sin^2 x * \pi^{-4} - 1/54 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6)^2 * F^{-4} * \sin^4 x * \pi^{-4} + 23/2592 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 5/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin^3 x * \cos x * \pi^{-4} - 1/54 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin^5 x * \cos x * \pi^{-4} + 1/2304 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \\
& \pi^{-4} + 17/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin^2 x * \pi^{-4} - \\
& 7/216 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin^4 x * \pi^{-4} + 1/162 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin^6 x * \pi^{-4} - 2560/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \\
& \sin^2 x * L8r * \pi^{-2} - 2560/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^2 x * L7r * \pi^{-2} \\
& + 3584/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^4 x * L8r * \pi^{-2} + 3584/27 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^4 x * L7r * \pi^{-2} - 1024/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \\
& \sin^6 x * L8r * \pi^{-2} - 1024/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^6 x * L7r * \pi^{-2} \\
& + 23/1944 / (\text{mass}(3) - \text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin^2 x * \pi^{-4} - 31/1944 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin^4 x * \pi^{-4} + 1/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(8)^2 * F^{-4} * \\
& \sin^8 x * \pi^{-4} - 31/4096 / (\text{mass}(4)) * \ln(4)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& + 5/12288 / (\text{mass}(4)) * \ln(4)^2 * F^{-4} * \pi^{-4} - 5/6144 / (\text{mass}(4)) * \ln(4)^2 * F^{-4} * \\
& \sin^2 x * \pi^{-4} - 31/4096 / (\text{mass}(5)) * \ln(4)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& + 5/12288 / (\text{mass}(5)) * \ln(4)^2 * F^{-4} * \pi^{-4} - 5/6144 / (\text{mass}(5)) * \ln(4)^2 * F^{-4} * \\
& \sin^2 x * \pi^{-4} + 239/12288 / (\text{mass}(6)) * \ln(6)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& + 19/12288 / (\text{mass}(6)) * \ln(6)^2 * F^{-4} * \pi^{-4} - 5/6144 / (\text{mass}(6)) * \ln(6)^2 * F^{-4} * \\
& \sin^2 x * \pi^{-4} + 239/12288 / (\text{mass}(7)) * \ln(6)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& + 19/12288 / (\text{mass}(7)) * \ln(6)^2 * F^{-4} * \pi^{-4} - 5/6144 / (\text{mass}(7)) * \ln(6)^2 * F^{-4} * \\
& \sin^2 x * \pi^{-4} + 199/20736 / (\text{mass}(8)) * \ln(8)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& + 439/31104 / (\text{mass}(8)) * \ln(8)^2 * F^{-4} * \pi^{-4} - 359/31104 / (\text{mass}(8)) * \ln(8)^2 * F^{-4} * \\
& \sin^2 x * \pi^{-4} - 5/1944 / (\text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin^4 x * \pi^{-4}) \\
& + \text{mud} * \text{mpp}^2 * (+ 7/768 / (\text{mass}(1)) * \ln(1)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& + 5/18432 / (\text{mass}(1)) * \ln(1)^2 * F^{-4} * \pi^{-4} + 1/1536 / (\text{mass}(1)) * \ln(1)^2 * F^{-4} * \\
& \sin^2 x * \pi^{-4} + 1/128 / (\text{mass}(2)) * \ln(1)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& + 13/18432 / (\text{mass}(2)) * \ln(1)^2 * F^{-4} * \pi^{-4} - 1/1536 / (\text{mass}(2)) * \ln(1)^2 * F^{-4} * \\
& \sin^2 x * \pi^{-4} + 83/82944 / (\text{mass}(3)) * \ln(3)^2 * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& + 1/2048 / (\text{mass}(3)) * \ln(3)^2 * F^{-4} * \pi^{-4} - 1223/746496 / (\text{mass}(3)) * \ln(3)^2 * F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2*\pi^{-4} + 25/23328/(\text{mass}(3))^*\ln(3)^2*\text{F}^{-4}*\sin x^4*\pi^{-4} - 524288/81/(\text{mass}(3) \\
& - \text{mass}(8))*\text{F}^{-4}*\sin x^2*\text{L}8\text{r}^2 - 1048576/27/(\text{mass}(3) - \text{mass}(8))*\text{F}^{-4} \\
& 4^*\sin x^2*\text{L}7\text{r}*\text{L}8\text{r} - 524288/9/(\text{mass}(3) - \text{mass}(8))*\text{F}^{-4}*\sin x^2*\text{L}7\text{r}^2 + \\
& 524288/81/(\text{mass}(3) - \text{mass}(8))*\text{F}^{-4}*\sin x^4*\text{L}8\text{r}^2 + 1048576/27/(\text{mass}(3) \\
& - \text{mass}(8))*\text{F}^{-4}*\sin x^4*\text{L}7\text{r}*\text{L}8\text{r} + 524288/9/(\text{mass}(3) - \text{mass}(8))*\text{F}^{-4} \\
& 4^*\sin x^4*\text{L}7\text{r}^2 - 16/9/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\text{L}8\text{r}*\pi^{-2} \\
& - 16/3/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\text{L}7\text{r}*\pi^{-2} + \\
& 256/27/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\text{F}^{-4}*\sin x^2*\text{L}8\text{r}*\pi^{-2} + 256/9/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(1)*\text{F}^{-4}*\sin x^2*\text{L}7\text{r}*\pi^{-2} - 256/27/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\text{F}^{-4} \\
& 4^*\sin x^4*\text{L}8\text{r}*\pi^{-2} - 256/9/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\text{F}^{-4}*\sin x^4*\text{L}7\text{r}*\pi^{-2} \\
& + 1/288/(\text{mass}(3) - \text{mass}(8))*\ln(1)^2*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + \\
& 1/576/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(3)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 1/216/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(3)*\text{F}^{-4}*\sin x^2*\pi^{-4} + 1/648/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(1)*\ln(3)*\text{F}^{-4}*\sin x^4*\pi^{-4} + 1/324/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(3)*\text{F}^{-4} \\
& 4^*\sin x^6*\pi^{-4} + 1/1152/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(4)*\text{F}^{-4}*\pi^{-4} - \\
& 1/108/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(4)*\text{F}^{-4}*\sin x^2*\pi^{-4} + 1/108/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(1)*\ln(4)*\text{F}^{-4}*\sin x^4*\pi^{-4} - 1/288/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(6)*\text{F}^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/1152/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(6)*\text{F}^{-4} \\
& 4^*\pi^{-4} - 1/108/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(6)*\text{F}^{-4}*\sin x^2*\pi^{-4} + \\
& 1/108/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(6)*\text{F}^{-4}*\sin x^4*\pi^{-4} + 1/1728/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(1)*\ln(8)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 5/648/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(1)*\ln(8)*\text{F}^{-4}*\sin x^2*\pi^{-4} + 7/648/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(8)*\text{F}^{-4} \\
& 4^*\sin x^4*\pi^{-4} - 1/324/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(8)*\text{F}^{-4}*\sin x^6*\pi^{-4} \\
& - 56/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\text{L}8\text{r}*\pi^{-2} - \\
& 56/27/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\text{F}^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\text{L}7\text{r}*\pi^{-2} + \\
& 256/27/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\text{F}^{-4}*\sin x^2*\text{L}8\text{r}*\pi^{-2} + 256/9/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(3)*\text{F}^{-4}*\sin x^2*\text{L}7\text{r}*\pi^{-2} - 2816/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\text{F}^{-4} \\
& 4^*\sin x^4*\text{L}8\text{r}*\pi^{-2} - 2816/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\text{F}^{-4}*\sin x^4*\text{L}7\text{r}*\pi^{-2} \\
& + 512/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\text{F}^{-4}*\sin x^6*\text{L}8\text{r}*\pi^{-2} + 512/81/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(3)*\text{F}^{-4}*\sin x^6*\text{L}7\text{r}*\pi^{-2} + 7/15552/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*\text{F}^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 19/5832/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*\text{F}^{-4} \\
& 4^*\sin x^2*\pi^{-4} + 19/5832/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*\text{F}^{-4}*\sin x^4*\pi^{-4} \\
& + 1/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*\text{F}^{-4}*\sin x^6*\pi^{-4} - 1/729/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(3)^2*\text{F}^{-4}*\sin x^8*\pi^{-4} - 5/7776/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*\text{F}^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/1944/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*\text{F}^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/648/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*\text{F}^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 5/15552/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*\text{F}^{-4} \\
& 4^*\pi^{-4} - 1/144/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*\text{F}^{-4}*\sin x^2*\pi^{-4} + \\
& 41/3888/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*\text{F}^{-4}*\sin x^4*\pi^{-4} - 7/1944/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(3)*\ln(4)*\text{F}^{-4}*\sin x^6*\pi^{-4} + 1/3888/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*\text{F}^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/1944/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*\text{F}^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/648/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*\text{F}^{-4} \\
& 4^*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 5/15552/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*\text{F}^{-4} \\
& 4^*\pi^{-4} - 1/144/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*\text{F}^{-4}*\sin x^2*\pi^{-4} + \\
& 41/3888/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*\text{F}^{-4}*\sin x^4*\pi^{-4} - 7/1944/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(3)*\ln(6)*\text{F}^{-4}*\sin x^6*\pi^{-4} - 17/2916/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*\text{F}^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^*\sin x^2*\pi^{-4} + 25/2916/(mass(3) - mass(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} \\
& - 4/729/(mass(3) - mass(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} + 2/729/(mass(3) - \\
& mass(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^8*\pi^{-4} + 64/27/(mass(3) - mass(8))*\ln(4)*F^{-4} \\
& *sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 64/9/(mass(3) - mass(8))*\ln(4)*F^{-4} \\
& *sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - 128/27/(mass(3) - mass(8))*\ln(4)*F^{-4} \\
& *sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - 128/9/(mass(3) - mass(8))*\ln(4)*F^{-4} \\
& *sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - 16/27/(mass(3) - mass(8))*\ln(4)*F^{-4} \\
& *L8r*\pi^{-2} - 16/9/(mass(3) - mass(8))*\ln(4)*F^{-4}*L7r*\pi^{-2} + 640/81/(mass(3) \\
& - mass(8))*\ln(4)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 640/27/(mass(3) - mass(8))*\ln(4)*F^{-4} \\
& *\sin x^2*L7r*\pi^{-2} - 640/81/(mass(3) - mass(8))*\ln(4)*F^{-4}*\sin x^4*L8r*\pi^{-2} \\
& - 640/27/(mass(3) - mass(8))*\ln(4)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 1/432/(mass(3) \\
& - mass(8))*\ln(4)^2*F^{-4}*sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/216/(mass(3) - \\
& mass(8))*\ln(4)^2*F^{-4}*sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/6912/(mass(3) - \\
& mass(8))*\ln(4)^2*F^{-4}*\pi^{-4} - 1/648/(mass(3) - mass(8))*\ln(4)^2*F^{-4} \\
& *\sin x^2*\pi^{-4} + 1/648/(mass(3) - mass(8))*\ln(4)^2*F^{-4}*\sin x^4*\pi^{-4} - \\
& 1/324/(mass(3) - mass(8))*\ln(4)*\ln(6)*F^{-4}*\sin x^2*\pi^{-4} + 1/324/(mass(3) - \\
& mass(8))*\ln(4)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} - 19/7776/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4} \\
& *sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 11/1944/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4} \\
& *sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/648/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4} \\
& *sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 7/15552/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4} \\
& *\pi^{-4} - 13/3888/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - \\
& 1/3888/(mass(3) - mass(8))*\ln(4)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + 7/1944/(mass(3) \\
& - mass(8))*\ln(4)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 16/27/(mass(3) - mass(8))*\ln(6)*F^{-4} \\
& *sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 16/9/(mass(3) - mass(8))*\ln(6)*F^{-4}*sqrt{3}^{-1} \\
& *\sin x*\cos x*L7r*\pi^{-2} + 128/27/(mass(3) - mass(8))*\ln(6)*F^{-4}*sqrt{3}^{-1} \\
& *\sin x^3*\cos x*L8r*\pi^{-2} + 128/9/(mass(3) - mass(8))*\ln(6)*F^{-4}*sqrt{3}^{-1} \\
& *\sin x^3*\cos x*L7r*\pi^{-2} + 16/27/(mass(3) - mass(8))*\ln(6)*F^{-4}*L8r*\pi^{-2} \\
& + 16/9/(mass(3) - mass(8))*\ln(6)*F^{-4}*L7r*\pi^{-2} + 640/81/(mass(3) - \\
& mass(8))*\ln(6)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 640/27/(mass(3) - mass(8))*\ln(6)*F^{-4} \\
& *\sin x^2*L7r*\pi^{-2} - 640/81/(mass(3) - mass(8))*\ln(6)*F^{-4}*\sin x^4*L8r*\pi^{-2} \\
& - 640/27/(mass(3) - mass(8))*\ln(6)*F^{-4}*\sin x^4*L7r*\pi^{-2} + 1/432/(mass(3) \\
& - mass(8))*\ln(6)^2*F^{-4}*sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/216/(mass(3) - \\
& mass(8))*\ln(6)^2*F^{-4}*sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/6912/(mass(3) - \\
& mass(8))*\ln(6)^2*F^{-4}*\pi^{-4} - 1/648/(mass(3) - mass(8))*\ln(6)^2*F^{-4} \\
& *\sin x^2*\pi^{-4} + 1/648/(mass(3) - mass(8))*\ln(6)^2*F^{-4}*\sin x^4*\pi^{-4} + \\
& 1/1944/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - \\
& 11/1944/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& + 1/648/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} \\
& - 7/15552/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} - 13/3888/(mass(3) - \\
& mass(8))*\ln(6)*\ln(8)*F^{-4}*\sin x^2*\pi^{-4} - 1/3888/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4} \\
& *\sin x^4*\pi^{-4} + 7/1944/(mass(3) - mass(8))*\ln(6)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} \\
& + 56/81/(mass(3) - mass(8))*\ln(8)*F^{-4}*sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + \\
& 56/27/(mass(3) - mass(8))*\ln(8)*F^{-4}*sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + \\
& 1792/243/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 1792/81/(mass(3) \\
& - mass(8))*\ln(8)*F^{-4}*\sin x^2*L7r*\pi^{-2} - 1280/243/(mass(3) - mass(8))*\ln(8)*F^{-4} \\
& *\sin x^4*L8r*\pi^{-2} - 1280/81/(mass(3) - mass(8))*\ln(8)*F^{-4}*\sin x^4*L7r*\pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2 - 512/243/(\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^6 * L_{8r} * \pi^{-2} - 512/81/(\text{mass}(3) \\
& - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^6 * L_{7r} * \pi^{-2} - 7/15552/(\text{mass}(3) - \text{mass}(8)) * \ln(8)^2 * F^{-4} \\
& * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} - 11/5832/(\text{mass}(3) - \text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin^4 * \pi^{-4} \\
& + 1/243/(\text{mass}(3) - \text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin^6 * \pi^{-4} - 1/729/(\text{mass}(3) \\
& - \text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin^8 * \pi^{-4} + 5/12288/(\text{mass}(4)) * \ln(4)^2 * F^{-4} * \sqrt{3}^{-1} \\
& * \sin^2 * \cos^2 * \pi^{-4} + 5/12288/(\text{mass}(5)) * \ln(4)^2 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} - \\
& 5/4096/(\text{mass}(6)) * \ln(6)^2 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} - \\
& 5/4096/(\text{mass}(7)) * \ln(6)^2 * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} + 3031/124416/(\text{mass}(8)) * \ln(8)^2 * F^{-4} \\
& * \sqrt{3}^{-1} * \sin^2 * \cos^2 * \pi^{-4} - 559/373248/(\text{mass}(8)) * \ln(8)^2 * F^{-4} * \pi^{-4} + \\
& 959/373248/(\text{mass}(8)) * \ln(8)^2 * F^{-4} * \sin^2 * \pi^{-4} - 25/23328/(\text{mass}(8)) * \ln(8)^2 * F^{-4} \\
& * \sin^4 * \pi^{-4}) \\
& + \text{mud}^2 * (+ 4/3 * \text{HH1b}(1,2,3, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin^2 * \cos^2 + \\
& 8/9 * \text{HH1b}(1,2,3, \text{plext.plext}) * F^{-4} * \sin^2 - 8/9 * \text{HH1b}(1,2,3, \text{plext.plext}) * F^{-4} \\
& * \sin^4 + 2/3 * \text{HH1b}(1,2,8, \text{plext.plext}) * F^{-4} - 8/9 * \text{HH1b}(1,2,8, \text{plext.plext}) * F^{-4} \\
& * \sin^2 + 8/9 * \text{HH1b}(1,2,8, \text{plext.plext}) * F^{-4} * \sin^4 - 4/3 * \text{HH1b}(1,5,6, \text{plext.plext}) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin^2 * \cos^2 - 2/3 * \text{HH1b}(1,5,6, \text{plext.plext}) * F^{-4} + 4/3 * \text{HH1b}(2,1,3, \text{plext.plext}) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin^2 * \cos^2 + 8/9 * \text{HH1b}(2,1,3, \text{plext.plext}) * F^{-4} * \sin^2 - 8/9 * \text{HH1b}(2,1,3, \text{plext.plext}) * F^{-4} \\
& * \sin^4 + 2/3 * \text{HH1b}(2,1,8, \text{plext.plext}) * F^{-4} - 8/9 * \text{HH1b}(2,1,8, \text{plext.plext}) * F^{-4} \\
& * \sin^2 + 8/9 * \text{HH1b}(2,1,8, \text{plext.plext}) * F^{-4} * \sin^4 - 4/3 * \text{HH1b}(2,4,7, \text{plext.plext}) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin^2 * \cos^2 - 2/3 * \text{HH1b}(2,4,7, \text{plext.plext}) * F^{-4} - 14/9 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin^2 * \cos^2 + 4/9 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos^2 \\
& - 1/18 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} - 4/9 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} \\
& * \sin^2 + 4/9 * \text{HH1b}(3,4,5, \text{plext.plext}) * F^{-4} * \sin^4 + 2/9 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin^2 * \cos^2 - 4/9 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos^2 \\
& + 1/18 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} - 4/9 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} \\
& * \sin^2 + 4/9 * \text{HH1b}(3,6,7, \text{plext.plext}) * F^{-4} * \sin^4 - 4/3 * \text{HH1b}(4,2,7, \text{plext.plext}) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin^2 * \cos^2 - 2/3 * \text{HH1b}(4,2,7, \text{plext.plext}) * F^{-4} - 14/9 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin^2 * \cos^2 + 4/9 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos^2 \\
& + 23/18 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} - 16/9 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} \\
& * \sin^2 + 4/9 * \text{HH1b}(4,5,8, \text{plext.plext}) * F^{-4} * \sin^4 - 4/3 * \text{HH1b}(5,1,6, \text{plext.plext}) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin^2 * \cos^2 - 2/3 * \text{HH1b}(5,1,6, \text{plext.plext}) * F^{-4} - 14/9 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin^2 * \cos^2 + 4/9 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos^2 \\
& + 23/18 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} - 16/9 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} \\
& * \sin^2 + 4/9 * \text{HH1b}(5,4,8, \text{plext.plext}) * F^{-4} * \sin^4 + 62/9 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin^2 * \cos^2 - 4/9 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos^2 \\
& + 49/18 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} - 16/9 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} \\
& * \sin^2 + 4/9 * \text{HH1b}(6,7,8, \text{plext.plext}) * F^{-4} * \sin^4 + 62/9 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin^2 * \cos^2 - 4/9 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} * \sqrt{3}^{-1} * \sin^3 * \cos^2 \\
& + 49/18 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} - 16/9 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} \\
& * \sin^2 + 4/9 * \text{HH1b}(7,6,8, \text{plext.plext}) * F^{-4} * \sin^4 - 4/3 * \text{Hb}(1,2,3, \text{plext.plext}) * F^{-4} \\
& * \sqrt{3}^{-1} * \sin^2 * \cos^2 - 4/9 * \text{Hb}(1,2,3, \text{plext.plext}) * F^{-4} * \sin^2 + 4/9 * \text{Hb}(1,2,3, \text{plext.plext}) * F^{-4} \\
& * \sin^4 - 1/3 * \text{Hb}(1,2,8, \text{plext.plext}) * F^{-4} + 4/9 * \text{Hb}(1,2,8, \text{plext.plext}) * F^{-4} \\
& * \sin^2 - 4/9 * \text{Hb}(1,2,8, \text{plext.plext}) * F^{-4} * \sin^4 + 1/2 * \text{Hb}(1,5,6, \text{plext.plext}) * F^{-4} \\
& + 1/2 * \text{Hb}(2,4,7, \text{plext.plext}) * F^{-4} - 1/12 * \text{Hb}(3,1,2, \text{plext.plext}) * F^{-4}
\end{aligned}$$

$$\begin{aligned}
& + 1/9^*Hb(3,1,2,plext.plext)^*F^{-4}*sinx^2 - 1/9^*Hb(3,1,2,plext.plext)^*F^{-4}*sinx^4 + 1/162^*Hb(3,3,3,plext.plext)^*F^{-4} + 16/243^*Hb(3,3,3,plext.plext)^*F^{-4}*sinx^2 - 16/27^*Hb(3,3,3,plext.plext)^*F^{-4}*sinx^4 + 256/243^*Hb(3,3,3,plext.plext)^*F^{-4}*sinx^6 - 128/243^*Hb(3,3,3,plext.plext)^*F^{-4}*sinx^8 + 128/81^*Hb(3,3,8,plext.plext)^*F^{-4}*sinx^4 - 256/81^*Hb(3,3,8,plext.plext)^*F^{-4}*sinx^6 + 128/81^*Hb(3,3,8,plext.plext)^*F^{-4}*sinx^8 - 1/36^*Hb(3,4,5,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 1/18^*Hb(3,4,5,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx + 1/48^*Hb(3,4,5,plext.plext)^*F^{-4} + 1/54^*Hb(3,4,5,plext.plext)^*F^{-4}*sinx^2 - 1/54^*Hb(3,4,5,plext.plext)^*F^{-4}*sinx^4 + 1/36^*Hb(3,6,7,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx - 1/18^*Hb(3,6,7,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx - 1/144^*Hb(3,6,7,plext.plext)^*F^{-4} + 1/54^*Hb(3,6,7,plext.plext)^*F^{-4}*sinx^2 - 1/54^*Hb(3,6,7,plext.plext)^*F^{-4}*sinx^4 + 1/54^*Hb(3,8,8,plext.plext)^*F^{-4} + 16/81^*Hb(3,8,8,plext.plext)^*F^{-4}*sinx^2 - 16/9^*Hb(3,8,8,plext.plext)^*F^{-4}*sinx^4 + 256/81^*Hb(3,8,8,plext.plext)^*F^{-4}*sinx^6 - 128/81^*Hb(3,8,8,plext.plext)^*F^{-4}*sinx^8 + 11/9^*Hb(4,5,8,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx - 2/3^*Hb(4,5,8,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx - 29/36^*Hb(4,5,8,plext.plext)^*F^{-4} + 34/27^*Hb(4,5,8,plext.plext)^*F^{-4}*sinx^2 - 10/27^*Hb(4,5,8,plext.plext)^*F^{-4}*sinx^4 - 1/8^*Hb(6,1,5,plext.plext)^*F^{-4} - 17/3^*Hb(6,7,8,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 2/3^*Hb(6,7,8,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx - 23/12^*Hb(6,7,8,plext.plext)^*F^{-4} + 34/27^*Hb(6,7,8,plext.plext)^*F^{-4}*sinx^2 - 10/27^*Hb(6,7,8,plext.plext)^*F^{-4}*sinx^4 - 1/8^*Hb(7,2,4,plext.plext)^*F^{-4} + 1/12^*Hb(8,1,2,plext.plext)^*F^{-4} - 1/9^*Hb(8,1,2,plext.plext)^*F^{-4}*sinx^2 + 1/9^*Hb(8,1,2,plext.plext)^*F^{-4}*sinx^4 - 1/3^*Hb(8,4,5,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 1/6^*Hb(8,4,5,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx + 3/16^*Hb(8,4,5,plext.plext)^*F^{-4} - 7/36^*Hb(8,4,5,plext.plext)^*F^{-4}*sinx^2 - 1/18^*Hb(8,4,5,plext.plext)^*F^{-4}*sinx^4 + 11/6^*Hb(8,6,7,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx - 1/6^*Hb(8,6,7,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx + 29/48^*Hb(8,6,7,plext.plext)^*F^{-4} - 7/36^*Hb(8,6,7,plext.plext)^*F^{-4}*sinx^2 - 1/18^*Hb(8,6,7,plext.plext)^*F^{-4}*sinx^4 + 56/243^*Hb(8,8,8,plext.plext)^*F^{-4} - 32/81^*Hb(8,8,8,plext.plext)^*F^{-4}*sinx^2 + 64/81^*Hb(8,8,8,plext.plext)^*F^{-4}*sinx^4 - 256/243^*Hb(8,8,8,plext.plext)^*F^{-4}*sinx^6 + 128/243^*Hb(8,8,8,plext.plext)^*F^{-4}*sinx^8 + H21b(1,5,6,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 5/8^*H21b(1,5,6,plext.plext)^*F^{-4} - 1/2^*H21b(1,5,6,plext.plext)^*F^{-4}*sinx^2 + H21b(2,4,7,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 5/8^*H21b(2,4,7,plext.plext)^*F^{-4} - 1/2^*H21b(2,4,7,plext.plext)^*F^{-4}*sinx^2 + H21b(3,1,2,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 1/4^*H21b(3,1,2,plext.plext)^*F^{-4} + 1/3^*H21b(3,1,2,plext.plext)^*F^{-4}*sinx^2 - 1/3^*H21b(3,1,2,plext.plext)^*F^{-4}*sinx^4 + H21b(3,4,5,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx - 1/2^*H21b(3,4,5,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx + 7/16^*H21b(3,4,5,plext.plext)^*F^{-4} - 5/12^*H21b(3,4,5,plext.plext)^*F^{-4}*sinx^2 + 1/6^*H21b(3,4,5,plext.plext)^*F^{-4}*sinx^4 - 1/2^*H21b(3,6,7,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 1/2^*H21b(3,6,7,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx^3*cosx + 3/16^*H21b(3,6,7,plext.plext)^*F^{-4} - 5/12^*H21b(3,6,7,plext.plext)^*F^{-4}*sinx^2 + 1/6^*H21b(3,6,7,plext.plext)^*F^{-4}*sinx^4 + 3/2^*H21b(4,2,7,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 3/8^*H21b(4,2,7,plext.plext)^*F^{-4} + 3/2^*H21b(5,1,6,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 3/8^*H21b(5,1,6,plext.plext)^*F^{-4} - H21b(6,1,5,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx - 1/8^*H21b(6,1,5,plext.plext)^*F^{-4} - H21b(7,2,4,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx - 1/8^*H21b(7,2,4,plext.plext)^*F^{-4} + 1/4^*H21b(8,1,2,plext.plext)^*F^{-4} - 1/3^*H21b(8,1,2,plext.plext)^*F^{-4}*sinx^2 + 1/3^*H21b(8,1,2,plext.plext)^*F^{-4}*sinx^4 - H21b(8,4,5,plext.plext)^*F^{-4}*sqrt3^{-1}*sinx*cosx + 1/2^*H21b(8,4,5,plext.plext)^*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}-1} \sin^3 x \cos x + 9/16 \text{H21b}(8,4,5, \text{plext.plext}) F^{-4} - 7/12 \text{H21b}(8,4,5, \text{plext.plext}) F^{-4} \sin^2 x - 1/6 \text{H21b}(8,4,5, \text{plext.plext}) F^{-4} \sin^4 x + 11/2 \text{H21b}(8,6,7, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin x \cos x - 1/2 \text{H21b}(8,6,7, \text{plext.plext}) F^{-4} \sqrt{3}^{-1} \sin^3 x \cos x \\
& + 29/16 \text{H21b}(8,6,7, \text{plext.plext}) F^{-4} - 7/12 \text{H21b}(8,6,7, \text{plext.plext}) F^{-4} \sin^2 x - 1/6 \text{H21b}(8,6,7, \text{plext.plext}) F^{-4} \sin^4 x \\
& + \text{mud}^2 \text{mkp2} * (- 1231/165888 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 13/3888 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-2} + 176/27 F^{-4} \sqrt{3}^{-1} \sin x \cos x L8r \pi^{-2} - 8/3 F^{-4} \sqrt{3}^{-1} \sin x \cos x L7r \pi^{-2} + 28/3 F^{-4} \sqrt{3}^{-1} \sin x \cos x L6r \pi^{-2} \\
& - 100/27 F^{-4} \sqrt{3}^{-1} \sin x \cos x L5r \pi^{-2} - 4096/9 F^{-4} \sqrt{3}^{-1} \sin x \cos x L5r L8r + 1024/3 F^{-4} \sqrt{3}^{-1} \sin x \cos x L5r L7r - 2048/3 F^{-4} \sqrt{3}^{-1} \sin x \cos x L5r L6r + 2560/9 F^{-4} \sqrt{3}^{-1} \sin x \cos x L5r^2 - 14/3 F^{-4} \sqrt{3}^{-1} \sin x \cos x L4r \pi^{-2} + 1024/3 F^{-4} \sqrt{3}^{-1} \sin x \cos x L4r L8r \\
& + 3072 F^{-4} \sqrt{3}^{-1} \sin x \cos x L4r L7r - 1024 F^{-4} \sqrt{3}^{-1} \sin x \cos x L4r L6r + 2048/3 F^{-4} \sqrt{3}^{-1} \sin x \cos x L4r L5r + 512 F^{-4} \sqrt{3}^{-1} \sin x \cos x L4r^2 + 67/108 F^{-4} \sqrt{3}^{-1} \sin x \cos x L3r \pi^{-2} + 23/9 F^{-4} \sqrt{3}^{-1} \sin x \cos x L2r \pi^{-2} \\
& + 10/9 F^{-4} \sqrt{3}^{-1} \sin x \cos x L1r \pi^{-2} - 1024/3 F^{-4} \sqrt{3}^{-1} \sin x \cos x \text{CC33} - 256/3 F^{-4} \sqrt{3}^{-1} \sin x \cos x \text{CC32} + 384 F^{-4} \sqrt{3}^{-1} \sin x \cos x \text{CC21} + 128 F^{-4} \sqrt{3}^{-1} \sin x \cos x \text{CC20} + 128/3 F^{-4} \sqrt{3}^{-1} \sin x \cos x \text{CC18} - 512/9 F^{-4} \sqrt{3}^{-1} \sin x \cos x \text{CC17} - 640/3 F^{-4} \sqrt{3}^{-1} \sin x \cos x \text{CC16} - 256/3 F^{-4} \sqrt{3}^{-1} \sin x \cos x \text{CC15} - 512/9 F^{-4} \sqrt{3}^{-1} \sin x \cos x \text{CC14} - 512/3 F^{-4} \sqrt{3}^{-1} \sin x \cos x \text{CC13} - 1280/9 F^{-4} \sqrt{3}^{-1} \sin x \cos x \text{CC12} - 8867/331776 F^{-4} \pi^{-4} - 41/7776 F^{-4} \pi^{-2} - 23/54 F^{-4} L8r \pi^{-2} - 8/9 F^{-4} L7r \pi^{-2} + 1/9 F^{-4} L6r \pi^{-2} + 7/108 F^{-4} L5r \pi^{-2} - 3328/9 F^{-4} L5r L8r - 512/3 F^{-4} L5r L7r - 1280/3 F^{-4} L5r L6r + 1408/9 F^{-4} L5r^2 - 1/18 F^{-4} L4r \pi^{-2} - 2048/3 F^{-4} L4r L8r - 768 F^{-4} L4r L7r - 512 F^{-4} L4r L6r + 1280/3 F^{-4} L4r L5r + 256 F^{-4} L4r^2 + 131/432 F^{-4} L3r \pi^{-2} + 7/6 F^{-4} L2r \pi^{-2} + 11/18 F^{-4} L1r \pi^{-2} + 320/3 F^{-4} \text{CC33} + 512/3 F^{-4} \text{CC32} + 128 F^{-4} \text{CC31} + 192 F^{-4} \text{CC21} + 256 F^{-4} \text{CC20} + 192 F^{-4} \text{CC19} - 64/3 F^{-4} \text{CC18} - 416/9 F^{-4} \text{CC17} - 256/3 F^{-4} \text{CC16} - 160/3 F^{-4} \text{CC15} - 416/9 F^{-4} \text{CC14} - 320/3 F^{-4} \text{CC13} - 704/9 F^{-4} \text{CC12} + 7567/331776 F^{-4} \sin^2 x \pi^{-4} + 1091/248832 F^{-4} \sin^2 x \pi^{-2} + 7/9 F^{-4} \sin^2 x L8r \pi^{-2} + 16/9 F^{-4} \sin^2 x L7r \pi^{-2} - 2/9 F^{-4} \sin^2 x L6r \pi^{-2} - 5/54 F^{-4} \sin^2 x L5r \pi^{-2} + 1024/3 F^{-4} \sin^2 x L5r L8r + 1024/3 F^{-4} \sin^2 x L5r L7r + 1024/3 F^{-4} \sin^2 x L5r L6r - 1024/9 F^{-4} \sin^2 x L5r^2 + 1/9 F^{-4} \sin^2 x L4r \pi^{-2} + 512 F^{-4} \sin^2 x L4r L8r + 512 F^{-4} \sin^2 x L4r L7r + 512 F^{-4} \sin^2 x L4r L6r - 1024/3 F^{-4} \sin^2 x L4r L5r - 256 F^{-4} \sin^2 x L4r^2 - 19/72 F^{-4} \sin^2 x L3r \pi^{-2} - 17/18 F^{-4} \sin^2 x L2r \pi^{-2} - 4/9 F^{-4} \sin^2 x L1r \pi^{-2} - 128 F^{-4} \sin^2 x \text{CC33} - 128 F^{-4} \sin^2 x \text{CC32} - 128 F^{-4} \sin^2 x \text{CC31} - 192 F^{-4} \sin^2 x \text{CC21} - 192 F^{-4} \sin^2 x \text{CC20} - 192 F^{-4} \sin^2 x \text{CC19} + 128/3 F^{-4} \sin^2 x \text{CC18} + 128/3 F^{-4} \sin^2 x \text{CC17} + 64 F^{-4} \sin^2 x \text{CC16} + 128/3 F^{-4} \sin^2 x \text{CC15} + 128/3 F^{-4} \sin^2 x \text{CC14} + 256/3 F^{-4} \sin^2 x \text{CC13} + 512/9 F^{-4} \sin^2 x \text{CC12} + 5/1296 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 184/27 \ln(3) F^{-4} \sqrt{3}^{-1} \sin x \cos x L8r \pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 2 + 88/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 8/3*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L6r*\pi^{-2} - 16/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} - \\
& 16/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} - 2/9*\ln(3)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L3r*\pi^{-2} - 2/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} - \\
& 8/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - 1/5184*\ln(3)*F^{-4}*\pi^{-4} \\
& - 4/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 8/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} \\
& + 2/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} + 2/27*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} \\
& - 2/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} + 1/18*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} \\
& + 1/18*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} + 2/9*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} \\
& - 1/324*\ln(3)*F^{-4}*\sin^2 \pi^{-4} - 208/27*\ln(3)*F^{-4}*\sin^2 \pi^{-4} + 128/9*\ln(3)*F^{-4}*\sin^2 \pi^{-4} \\
& - 32/9*\ln(3)*F^{-4}*\sin^2 \pi^{-4} + 40/27*\ln(3)*F^{-4}*\sin^2 \pi^{-4} + 8/3*\ln(3)*F^{-4}*\sin^2 \pi^{-4} \\
& + 1/324*\ln(3)*F^{-4}*\sin^4 \pi^{-4} + 112/9*\ln(3)*F^{-4}*\sin^4 \pi^{-4} + 256/9*\ln(3)*F^{-4}*\sin^4 \pi^{-4} \\
& + 32/9*\ln(3)*F^{-4}*\sin^4 \pi^{-4} - 40/27*\ln(3)*F^{-4}*\sin^4 \pi^{-4} - 8/3*\ln(3)*F^{-4}*\sin^4 \pi^{-4} \\
& - 128/27*\ln(3)*F^{-4}*\sin^4 \pi^{-4} - 128/9*\ln(3)*F^{-4}*\sin^4 \pi^{-4} - 41/10368*\ln(3)^2 * F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*\pi^{-4} + 19/41472*\ln(3)^2 * F^{-4}*\pi^{-4} + 11/5184*\ln(3)^2 * F^{-4}*\sin^2 \pi^{-4} \\
& + 7/5184*\ln(3)^2 * F^{-4}*\sin^4 \pi^{-4} - 25/2592*\ln(3)^2 * F^{-4}*\sin^6 \pi^{-4} + 1/162*\ln(3)^2 * F^{-4} \\
& * \sin^8 \pi^{-4} - 1/384*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 31/1728*\ln(3)*\ln(4) \\
& * F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/72*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} \\
& + 95/82944*\ln(3)*\ln(4)*F^{-4}*\pi^{-4} - 1/192*\ln(3)*\ln(4)*F^{-4}*\sin^2 \pi^{-4} \\
& + 1/1728*\ln(3)*\ln(4)*F^{-4}*\sin^4 \pi^{-4} + 1/216*\ln(3)*\ln(4)*F^{-4}*\sin^6 \pi^{-4} \\
& + 17/864*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 31/1728*\ln(3)*\ln(6) \\
& * F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/72*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} \\
& - 125/82944*\ln(3)*\ln(6)*F^{-4}*\pi^{-4} - 1/192*\ln(3)*\ln(6)*F^{-4}*\sin^2 \pi^{-4} \\
& + 1/1728*\ln(3)*\ln(6)*F^{-4}*\sin^4 \pi^{-4} + 1/216*\ln(3)*\ln(6)*F^{-4}*\sin^6 \pi^{-4} \\
& + 7/5184*\ln(3)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 11/20736*\ln(3)*\ln(8) \\
& * F^{-4}*\pi^{-4} + 11/2592*\ln(3)*\ln(8)*F^{-4}*\sin^2 \pi^{-4} - 5/288*\ln(3)*\ln(8) \\
& * F^{-4}*\sin^4 \pi^{-4} + 11/432*\ln(3)*\ln(8)*F^{-4}*\sin^6 \pi^{-4} - 1/81*\ln(3)*\ln(8) \\
& * F^{-4}*\sin^8 \pi^{-4} + 59/6912*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 10/9*\ln(4) \\
& * F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 4*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} \\
& - 1/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} - 2/3*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L4r*\pi^{-2} + 7/6*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} \\
& + 2/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} + 8/3*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L1r*\pi^{-2} - 1/216*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^3 \cos x*\pi^{-4} \\
& + 32/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^3 \cos x*L8r*\pi^{-2} + 32/3*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin^3 \cos x*L7r*\pi^{-2} - 235/82944*\ln(4)*F^{-4}*\pi^{-4} + 1/108*\ln(4)*F^{-4} \\
& * L8r*\pi^{-2} + 5/18*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 1/24*\ln(4) \\
& * F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} + 1/4*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} \\
& - 7/16*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} - 1/4*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& * \sin x*\cos x*L2r*\pi^{-2} - \ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + 13/2304*\ln(4) \\
& * F^{-4}*\sin^2 \pi^{-4} + 1/2*\ln(4)*F^{-4}*\sin^2 \pi^{-4} + \ln(4)*F^{-4}*\sin^2 \pi^{-4} \\
& - 1/12*\ln(4)*F^{-4}*\sin^2 \pi^{-4} - 1/2*\ln(4)*F^{-4}*\sin^2 \pi^{-4} + 7/8*\ln(4) \\
& * F^{-4}*\sin^2 \pi^{-4} + 1/2*\ln(4)*F^{-4}*\sin^2 \pi^{-4} + 2*\ln(4)*F^{-4}*\sin^2 \pi^{-4} \\
& - 1/288*\ln(4)^2 * F^{-4}*\sqrt{3}^{-1}*\sin^3 \cos x*\pi^{-4} - 1/6912*\ln(4)^2 * F^{-4} \\
& * \pi^{-4} + 5/2304*\ln(4)^2 * F^{-4}*\sin^2 \pi^{-4} - 1/288*\ln(4)^2 * F^{-4}*\sin^4 \pi^{-4} \\
& + 1/288*\ln(4)*\ln(6)*F^{-4}*\sqrt{3}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x*\cos x*\pi^{-4} + 5/18432*\ln(4)*\ln(6)*F^{-4}\pi^{-4} - 67/9216*\ln(4)*\ln(6)*F^{-4} \\
& 4*\sin x^2*\pi^{-4} + 1/144*\ln(4)*\ln(6)*F^{-4}\sin x^4*\pi^{-4} + 31/1728*\ln(4)*\ln(8)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 13/576*\ln(4)*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& + 1/72*\ln(4)*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 185/27648*\ln(4)*\ln(8)*F^{-4} \\
& 4*\pi^{-4} + 5/384*\ln(4)*\ln(8)*F^{-4}\sin x^2*\pi^{-4} - 1/1728*\ln(4)*\ln(8)*F^{-4} \\
& 4*\sin x^4*\pi^{-4} - 1/216*\ln(4)*\ln(8)*F^{-4}\sin x^6*\pi^{-4} - 1/32*\ln(6)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 190/9*\ln(6)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} \\
& + 68/3*\ln(6)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} + 8*\ln(6)*F^{-4}\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L6r*\pi^{-2} - 61/9*\ln(6)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} - \\
& 8/3*\ln(6)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} - 19/3*\ln(6)*F^{-4}\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L3r*\pi^{-2} - 10/3*\ln(6)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} - \\
& 40/3*\ln(6)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + 1/216*\ln(6)*F^{-4}\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*\pi^{-4} - 32/9*\ln(6)*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - \\
& 32/3*\ln(6)*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - 1109/82944*\ln(6)*F^{-4} \\
& 4*\pi^{-4} - 163/108*\ln(6)*F^{-4}L8r*\pi^{-2} - 83/18*\ln(6)*F^{-4}L7r*\pi^{-2} - \\
& 1/72*\ln(6)*F^{-4}L5r*\pi^{-2} + 11/12*\ln(6)*F^{-4}L4r*\pi^{-2} - 89/48*\ln(6)*F^{-4} \\
& 4*L3r*\pi^{-2} - 11/12*\ln(6)*F^{-4}L2r*\pi^{-2} - 11/3*\ln(6)*F^{-4}L1r*\pi^{-2} \\
& + 13/2304*\ln(6)*F^{-4}\sin x^2*\pi^{-4} + 1/2*\ln(6)*F^{-4}\sin x^2*L8r*\pi^{-2} \\
& + \ln(6)*F^{-4}\sin x^2*L7r*\pi^{-2} - 1/12*\ln(6)*F^{-4}\sin x^2*L5r*\pi^{-2} \\
& - 1/2*\ln(6)*F^{-4}\sin x^2*L4r*\pi^{-2} + 7/8*\ln(6)*F^{-4}\sin x^2*L3r*\pi^{-2} \\
& + 1/2*\ln(6)*F^{-4}\sin x^2*L2r*\pi^{-2} + 2*\ln(6)*F^{-4}\sin x^2*L1r*\pi^{-2} \\
& + 55/2304*\ln(6)^2F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/288*\ln(6)^2F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 43/6912*\ln(6)^2F^{-4}\pi^{-4} + 5/2304*\ln(6)^2F^{-4} \\
& 4*\sin x^2*\pi^{-4} - 1/288*\ln(6)^2F^{-4}\sin x^4*\pi^{-4} - 115/3456*\ln(6)*\ln(8)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 13/576*\ln(6)*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& - 1/72*\ln(6)*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} - 127/9216*\ln(6)*\ln(8)*F^{-4} \\
& 4*\pi^{-4} + 5/384*\ln(6)*\ln(8)*F^{-4}\sin x^2*\pi^{-4} - 1/1728*\ln(6)*\ln(8)*F^{-4} \\
& 4*\sin x^4*\pi^{-4} - 1/216*\ln(6)*\ln(8)*F^{-4}\sin x^6*\pi^{-4} + 77/5184*\ln(8)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 64/9*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} \\
& + 16/3*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - 152/9*\ln(8)*F^{-4}\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L6r*\pi^{-2} + 40/9*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} + \\
& 64/9*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} - 10/3*\ln(8)*F^{-4}\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L3r*\pi^{-2} - 20/3*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} - \\
& 20/3*\ln(8)*F^{-4}\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + 17/2592*\ln(8)*F^{-4}\pi^{-4} - \\
& 248/27*\ln(8)*F^{-4}L8r*\pi^{-2} - 16/3*\ln(8)*F^{-4}L7r*\pi^{-2} - 106/9*\ln(8)*F^{-4} \\
& 4*L6r*\pi^{-2} + 100/27*\ln(8)*F^{-4}L5r*\pi^{-2} + 52/9*\ln(8)*F^{-4}L4r*\pi^{-2} \\
& - 11/6*\ln(8)*F^{-4}L3r*\pi^{-2} - 11/3*\ln(8)*F^{-4}L2r*\pi^{-2} - 11/3*\ln(8)*F^{-4} \\
& 4*L1r*\pi^{-2} - 1/576*\ln(8)*F^{-4}\sin x^2*\pi^{-4} + 448/27*\ln(8)*F^{-4}\sin x^2*L8r*\pi^{-2} \\
& + 208/9*\ln(8)*F^{-4}\sin x^2*L7r*\pi^{-2} + 112/9*\ln(8)*F^{-4}\sin x^2*L6r*\pi^{-2} \\
& - 40/9*\ln(8)*F^{-4}\sin x^2*L5r*\pi^{-2} - 64/9*\ln(8)*F^{-4}\sin x^2*L4r*\pi^{-2} \\
& + 4/3*\ln(8)*F^{-4}\sin x^2*L3r*\pi^{-2} + 8/3*\ln(8)*F^{-4}\sin x^2*L2r*\pi^{-2} \\
& + 8/3*\ln(8)*F^{-4}\sin x^2*L1r*\pi^{-2} - 1/324*\ln(8)*F^{-4}\sin x^4*\pi^{-4} - \\
& 112/9*\ln(8)*F^{-4}\sin x^4*L8r*\pi^{-2} - 256/9*\ln(8)*F^{-4}\sin x^4*L7r*\pi^{-2} \\
& - 32/9*\ln(8)*F^{-4}\sin x^4*L6r*\pi^{-2} + 40/27*\ln(8)*F^{-4}\sin x^4*L5r*\pi^{-2} \\
& + 8/3*\ln(8)*F^{-4}\sin x^4*L4r*\pi^{-2} + 128/27*\ln(8)*F^{-4}\sin x^6*L8r*\pi^{-2} \\
& + 128/9*\ln(8)*F^{-4}\sin x^6*L7r*\pi^{-2} + 5/1152*\ln(8)^2F^{-4}\sqrt{3}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x*\cos x*\pi^{-4} + 73/13824*\ln(8)^2*F^{-4}*\pi^{-4} - 19/1728*\ln(8)^2*F^{-4} \\
& 4*\sin x^2*\pi^{-4} + 83/5184*\ln(8)^2*F^{-4}*\sin x^4*\pi^{-4} - 41/2592*\ln(8)^2*F^{-4} \\
& 4*\sin x^6*\pi^{-4} + 1/162*\ln(8)^2*F^{-4}*\sin x^8*\pi^{-4}) \\
& + \text{mud}^2*\text{mkp}2^2 * (+ 17/2304/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& - 73/124416/(\text{mass}(3))*\ln(3)^2*F^{-4}*\pi^{-4} - 5/972/(\text{mass}(3))*\ln(3)^2*F^{-4} \\
& 4*\sin x^2*\pi^{-4} + 5/972/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} + 7168/27/(\text{mass}(3) \\
& - \text{mass}(8))*F^{-4}*L8r^2 + 14336/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}*L7r*L8r + \\
& 7168/3/(\text{mass}(3) - \text{mass}(8))*F^{-4}*L7r^2 - 131072/27/(\text{mass}(3) - \text{mass}(8))*F^{-4} \\
& 4*\sin x^2*L8r^2 - 262144/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^2*L7r*L8r - \\
& 131072/3/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^2*L7r^2 + 131072/27/(\text{mass}(3) - \\
& \text{mass}(8))*F^{-4}*\sin x^4*L8r^2 + 262144/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^4*L7r*L8r \\
& + 131072/3/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin x^4*L7r^2 + 56/27/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} + 56/9/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} - 28/81/(\text{mass}(3) \\
& - \text{mass}(8))*\ln(3)*F^{-4}*L8r*\pi^{-2} - 28/27/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4} \\
& 4*L7r*\pi^{-2} + 1024/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^4*L8r*\pi^{-2} + \\
& 1024/27/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin x^4*L7r*\pi^{-2} - 1024/81/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(3)*F^{-4}*\sin x^6*L8r*\pi^{-2} - 1024/27/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4} \\
& 4*\sin x^6*L7r*\pi^{-2} - 7/5184/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*\pi^{-4} + 1/10368/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\pi^{-4} + \\
& 1/972/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^2*\pi^{-4} - 1/972/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^4*\pi^{-4} - 2/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4} \\
& 4*\sin x^6*\pi^{-4} + 2/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin x^8*\pi^{-4} \\
& - 1/5184/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x* \pi^{-4} \\
& + 2/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x* \pi^{-4} \\
& - 1/27/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x* \pi^{-4} \\
& - 7/20736/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\pi^{-4} - 1/81/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sin x^4*\pi^{-4} + 1/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4} \\
& 4*\sin x^6*\pi^{-4} - 5/1296/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x* \pi^{-4} - 2/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x* \pi^{-4} + 1/27/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^5*\cos x* \pi^{-4} + 7/6912/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4} \\
& 4*\pi^{-4} - 1/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sin x^4*\pi^{-4} + \\
& 1/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sin x^6*\pi^{-4} + 1/3888/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\pi^{-4} - 1/486/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4} \\
& 4*\sin x^2*\pi^{-4} - 7/486/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^4*\pi^{-4} + \\
& 8/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^6*\pi^{-4} - 4/243/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin x^8*\pi^{-4} - 16/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 48/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L7r*\pi^{-2} + 256/9/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*L8r* \pi^{-2} + 256/3/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*L7r* \pi^{-2} + 28/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*L8r*\pi^{-2} \\
& + 28/9/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*L7r*\pi^{-2} + 256/27/(\text{mass}(3) - \\
& \text{mass}(8))*\ln(4)*F^{-4}*\sin x^2*L8r*\pi^{-2} + 256/9/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4} \\
& 4*\sin x^2*L7r*\pi^{-2} - 256/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sin x^4*L8r*\pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& - 256/9/(mass(3) - mass(8))*ln(4)*F^{-4}*sinx^4*L7r*pi^{-2} + 7/384/(mass(3) - \\
& mass(8))*ln(4)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 1/36/(mass(3) - mass(8))*ln(4)^2*F^{-4} \\
& *sqrt3^{-1}*sinx^3*cosx*pi^{-4} - 11/2304/(mass(3) - mass(8))*ln(4)^2*F^{-4} \\
& *pi^{-4} + 41/3456/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sinx^2*pi^{-4} - \\
& 1/108/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sinx^4*pi^{-4} - 1/192/(mass(3) - \\
& mass(8))*ln(4)*ln(6)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} + 13/1728/(mass(3) - \\
& mass(8))*ln(4)*ln(6)*F^{-4}*pi^{-4} - 73/1728/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4} \\
& *sinx^2*pi^{-4} + 1/27/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*sinx^4*pi^{-4} \\
& + 109/5184/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} \\
& - 5/81/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} \\
& + 1/27/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sqrt3^{-1}*sinx^5*cosx*pi^{-4} \\
& - 7/6912/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*pi^{-4} - 1/81/(mass(3) - \\
& mass(8))*ln(4)*ln(8)*F^{-4}*sinx^2*pi^{-4} + 2/81/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4} \\
& *sinx^4*pi^{-4} - 1/81/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sinx^6*pi^{-4} \\
& + 16/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} \\
& + 48/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*pi^{-2} - \\
& 256/9/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*L8r*pi^{-2} \\
& - 256/3/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*L7r*pi^{-2} \\
& - 56/27/(mass(3) - mass(8))*ln(6)*F^{-4}*L8r*pi^{-2} - 56/9/(mass(3) - \\
& mass(8))*ln(6)*F^{-4}*L7r*pi^{-2} + 256/27/(mass(3) - mass(8))*ln(6)*F^{-4} \\
& *sinx^2*L8r*pi^{-2} + 256/9/(mass(3) - mass(8))*ln(6)*F^{-4}*sinx^2*L7r*pi^{-2} \\
& - 256/27/(mass(3) - mass(8))*ln(6)*F^{-4}*sinx^4*L8r*pi^{-2} - 256/9/(mass(3) - \\
& mass(8))*ln(6)*F^{-4}*sinx^4*L7r*pi^{-2} - 5/384/(mass(3) - mass(8))*ln(6)^2*F^{-4} \\
& *sqrt3^{-1}*sinx*cosx*pi^{-4} + 1/36/(mass(3) - mass(8))*ln(6)^2*F^{-4} \\
& *sqrt3^{-1}*sinx^3*cosx*pi^{-4} - 1/576/(mass(3) - mass(8))*ln(6)^2*F^{-4} \\
& *pi^{-4} + 41/3456/(mass(3) - mass(8))*ln(6)^2*F^{-4}*sinx^2*pi^{-4} - \\
& 1/108/(mass(3) - mass(8))*ln(6)^2*F^{-4}*sinx^4*pi^{-4} - 11/648/(mass(3) \\
& - mass(8))*ln(6)*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} + 5/81/(mass(3) - \\
& mass(8))*ln(6)*ln(8)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} - 1/27/(mass(3) - \\
& mass(8))*ln(6)*ln(8)*F^{-4}*sqrt3^{-1}*sinx^5*cosx*pi^{-4} + 35/20736/(mass(3) \\
& - mass(8))*ln(6)*ln(8)*F^{-4}*pi^{-4} - 1/81/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4} \\
& *sinx^2*pi^{-4} + 2/81/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sinx^4*pi^{-4} - \\
& 1/81/(mass(3) - mass(8))*ln(6)*ln(8)*F^{-4}*sinx^6*pi^{-4} - 56/27/(mass(3) \\
& - mass(8))*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} - 56/9/(mass(3) - \\
& mass(8))*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*pi^{-2} - 28/81/(mass(3) - \\
& mass(8))*ln(8)*F^{-4}*L8r*pi^{-2} - 28/27/(mass(3) - mass(8))*ln(8)*F^{-4} \\
& *L7r*pi^{-2} + 1024/81/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^2*L8r*pi^{-2} + \\
& 1024/27/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^2*L7r*pi^{-2} - 2048/81/(mass(3) - \\
& mass(8))*ln(8)*F^{-4}*sinx^4*L8r*pi^{-2} - 2048/27/(mass(3) - mass(8))*ln(8)*F^{-4} \\
& *sinx^4*L7r*pi^{-2} + 1024/81/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^6*L8r*pi^{-2} \\
& + 1024/27/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^6*L7r*pi^{-2} + 7/5184/(mass(3) \\
& - mass(8))*ln(8)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} + 1/10368/(mass(3) \\
& - mass(8))*ln(8)^2*F^{-4}*pi^{-4} - 7/972/(mass(3) - mass(8))*ln(8)^2*F^{-4} \\
& *sinx^2*pi^{-4} + 23/972/(mass(3) - mass(8))*ln(8)^2*F^{-4}*sinx^4*pi^{-4} \\
& - 2/81/(mass(3) - mass(8))*ln(8)^2*F^{-4}*sinx^6*pi^{-4} + 2/243/(mass(3) \\
& - mass(8))*ln(8)^2*F^{-4}*sinx^8*pi^{-4} + 35/2304/(mass(4))*ln(4)^2*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}-1} \sin x \cos x \pi^{-4} - 19/4096 / (\text{mass}(4))^{\ln(4)^2 F^{-4} \pi^{-4}} + \\
& 25/3072 / (\text{mass}(4))^{\ln(4)^2 F^{-4} \sin x^2 \pi^{-4}} + 5/576 / (\text{mass}(5))^{\ln(4)^2 F^{-4} \pi^{-4}} - \\
& 4^{\sqrt{3}-1} \sin x \cos x \pi^{-4} - 11/4096 / (\text{mass}(5))^{\ln(4)^2 F^{-4} \pi^{-4}} + \\
& 13/3072 / (\text{mass}(5))^{\ln(4)^2 F^{-4} \sin x^2 \pi^{-4}} - 401/9216 / (\text{mass}(6))^{\ln(6)^2 F^{-4} \pi^{-4}} - \\
& 4^{\sqrt{3}-1} \sin x \cos x \pi^{-4} - 233/12288 / (\text{mass}(6))^{\ln(6)^2 F^{-4} \pi^{-4}} + \\
& 25/3072 / (\text{mass}(6))^{\ln(6)^2 F^{-4} \sin x^2 \pi^{-4}} + 19/9216 / (\text{mass}(7))^{\ln(6)^2 F^{-4} \pi^{-4}} - \\
& 4^{\sqrt{3}-1} \sin x \cos x \pi^{-4} - 41/12288 / (\text{mass}(7))^{\ln(6)^2 F^{-4} \pi^{-4}} + \\
& 13/3072 / (\text{mass}(7))^{\ln(6)^2 F^{-4} \sin x^2 \pi^{-4}} - 637/10368 / (\text{mass}(8))^{\ln(8)^2 F^{-4} \pi^{-4}} - \\
& 4^{\sqrt{3}-1} \sin x \cos x \pi^{-4} - 25/576 / (\text{mass}(8))^{\ln(8)^2 F^{-4} \pi^{-4}} + \\
& 329/7776 / (\text{mass}(8))^{\ln(8)^2 F^{-4} \sin x^2 \pi^{-4}} - 5/972 / (\text{mass}(8))^{\ln(8)^2 F^{-4} \sin x^4 \pi^{-4}} \\
& + \text{mud}^2 \text{mpp}^2 * (+ 65/82944 F^{-4 \sqrt{3}-1} \sin x \cos x \pi^{-4} + 155/497664 F^{-4 \sqrt{3}-1} \sin x \cos x \pi^{-2} + \\
& 19/27 F^{-4 \sqrt{3}-1} \sin x \cos x L8r \pi^{-2} + 14/3 F^{-4 \sqrt{3}-1} \sin x \cos x L7r \pi^{-2} - 1/3 F^{-4 \sqrt{3}-1} \sin x \cos x L6r \pi^{-2} \\
& + 23/54 F^{-4 \sqrt{3}-1} \sin x \cos x L5r \pi^{-2} + 1792/9 F^{-4 \sqrt{3}-1} \sin x \cos x L5r L8r + 1280/3 F^{-4 \sqrt{3}-1} \sin x \cos x L5r L7r - 1024/3 F^{-4 \sqrt{3}-1} \sin x \cos x L5r L6r \\
& - 256/9 F^{-4 \sqrt{3}-1} \sin x \cos x L5r^2 + 1/6 F^{-4 \sqrt{3}-1} \sin x \cos x L4r \pi^{-2} - 1792/3 F^{-4 \sqrt{3}-1} \sin x \cos x L4r L8r \\
& - 768 F^{-4 \sqrt{3}-1} \sin x \cos x L4r L7r - 512 F^{-4 \sqrt{3}-1} \sin x \cos x L4r L6r + 1024/3 F^{-4 \sqrt{3}-1} \sin x \cos x L4r L5r + 256 F^{-4 \sqrt{3}-1} \sin x \cos x L4r^2 \\
& - 103/432 F^{-4 \sqrt{3}-1} \sin x \cos x L3r \pi^{-2} - 13/18 F^{-4 \sqrt{3}-1} \sin x \cos x L2r \pi^{-2} - 1/9 F^{-4 \sqrt{3}-1} \sin x \cos x L1r \pi^{-2} - 128/3 F^{-4 \sqrt{3}-1} \sin x \cos x \text{CC33} \\
& + 448/3 F^{-4 \sqrt{3}-1} \sin x \cos x \text{CC32} - 64 F^{-4 \sqrt{3}-1} \sin x \cos x \text{CC31} + 192 F^{-4 \sqrt{3}-1} \sin x \cos x \text{CC21} - 96 F^{-4 \sqrt{3}-1} \sin x \cos x \text{CC19} + \\
& 160/3 F^{-4 \sqrt{3}-1} \sin x \cos x \text{CC18} + 224/9 F^{-4 \sqrt{3}-1} \sin x \cos x \text{CC17} + 448/3 F^{-4 \sqrt{3}-1} \sin x \cos x \text{CC16} - 128/3 F^{-4 \sqrt{3}-1} \sin x \cos x \text{CC15} \\
& + 224/9 F^{-4 \sqrt{3}-1} \sin x \cos x \text{CC14} - 256/3 F^{-4 \sqrt{3}-1} \sin x \cos x \text{CC13} + 128/9 F^{-4 \sqrt{3}-1} \sin x \cos x \text{CC12} + 595/1327104 F^{-4 \pi^{-4}} + \\
& 49/497664 F^{-4 \pi^{-2}} + 1/9 F^{-4} L8r \pi^{-2} - 1/9 F^{-4} L7r \pi^{-2} + 7/18 F^{-4} L6r \pi^{-2} - 2/27 F^{-4} L5r \pi^{-2} - 128/3 F^{-4} L5r L7r - \\
& 128/3 F^{-4} L5r L6r - 64/9 F^{-4} L5r^2 - 7/36 F^{-4} L4r \pi^{-2} + 128 F^{-4} L4r L7r - 128 F^{-4} L4r L6r + 128/3 F^{-4} L4r L5r + 64 F^{-4} L4r^2 \\
& - 7/864 F^{-4} L3r \pi^{-2} - 1/24 F^{-4} L2r \pi^{-2} - 1/36 F^{-4} L1r \pi^{-2} + 48 F^{-4} \text{CC21} - 16 F^{-4} \text{CC20} - 16/3 F^{-4} \text{CC18} + 16 F^{-4} \text{CC16} - \\
& 16/3 F^{-4} \text{CC15} - 32/3 F^{-4} \text{CC13} + 32/9 F^{-4} \text{CC12} - 103/12288 F^{-4 \sin x^2 \pi^{-4}} - 83/55296 F^{-4 \sin x^2 \pi^{-2}} - 26/27 F^{-4 \sin x^2 L8r \pi^{-2}} - \\
& 14/9 F^{-4 \sin x^2 L7r \pi^{-2}} - 5/9 F^{-4 \sin x^2 L6r \pi^{-2}} + 2/9 F^{-4 \sin x^2 L5r \pi^{-2}} - 1280/9 F^{-4 \sin x^2 L5r L8r} - 256 F^{-4 \sin x^2 L5r L7r} + \\
& 256/9 F^{-4 \sin x^2 L5r^2} + 5/18 F^{-4 \sin x^2 L4r \pi^{-2}} - 256/3 F^{-4 \sin x^2 L4r L8r} - 256 F^{-4 \sin x^2 L4r L7r} + 47/432 F^{-4 \sin x^2 L3r \pi^{-2}} \\
& + 1/3 F^{-4 \sin x^2 L2r \pi^{-2}} + 1/9 F^{-4 \sin x^2 L1r \pi^{-2}} + 256/3 F^{-4 \sin x^2 \text{CC33}} + 64/3 F^{-4 \sin x^2 \text{CC32}} + 64 F^{-4 \sin x^2 \text{CC31}} + 64 F^{-4 \sin x^2 \text{CC20}} + \\
& 96 F^{-4 \sin x^2 \text{CC19}} - 32 F^{-4 \sin x^2 \text{CC18}} - 160/9 F^{-4 \sin x^2 \text{CC17}} - 128/3 F^{-4 \sin x^2 \text{CC16}} - 160/9 F^{-4 \sin x^2 \text{CC14}} - \\
& 128/9 F^{-4 \sin x^2 \text{CC12}} - 1/768 \ln(1) F^{-4 \sqrt{3}-1} \sin x \cos x \pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& + 13/27648*\ln(1)*F^{-4*\pi^4} - 1/9*\ln(1)*F^{-4*L8r*\pi^2} - 1/3*\ln(1)*F^{-4*L7r*\pi^2} - 1/1296*\ln(1)*F^{-4*\sin^2*\pi^4} + 16/27*\ln(1)*F^{-4*\sin^2*L8r*\pi^2} \\
& - 2 + 16/9*\ln(1)*F^{-4*\sin^2*L7r*\pi^2} + 1/1296*\ln(1)*F^{-4*\sin^4*\pi^4} \\
& - 16/27*\ln(1)*F^{-4*\sin^4*L8r*\pi^2} - 16/9*\ln(1)*F^{-4*\sin^4*L7r*\pi^2} + \\
& 1/384*\ln(1)*\ln(3)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*\pi^4} + 1/6912*\ln(1)*\ln(3)*F^{-4*\pi^4} - 13/5184*\ln(1)*\ln(3)*F^{-4*\sin^2*\pi^4} \\
& + 13/5184*\ln(1)*\ln(3)*F^{-4*\sin^4*\pi^4} + 1/1152*\ln(1)*\ln(4)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*\pi^4} - \\
& 1/576*\ln(1)*\ln(4)*F^{-4*\sqrt{3}^{-1}*\sin^3*\cos^*\pi^4} - 1/1728*\ln(1)*\ln(4)*F^{-4*\sin^2*\pi^4} + 1/1728*\ln(1)*\ln(4)*F^{-4*\sin^4*\pi^4} \\
& + 7/2304*\ln(1)*\ln(6)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*\pi^4} - 1/576*\ln(1)*\ln(6)*F^{-4*\sqrt{3}^{-1}*\sin^3*\cos^*\pi^4} \\
& - 7/9216*\ln(1)*\ln(6)*F^{-4*\pi^4} - 1/1728*\ln(1)*\ln(6)*F^{-4*\sin^2*\pi^4} \\
& + 1/1728*\ln(1)*\ln(6)*F^{-4*\sin^4*\pi^4} - 1/768*\ln(1)*\ln(8)*F^{-4*\pi^4} + \\
& 1/576*\ln(1)*\ln(8)*F^{-4*\sin^2*\pi^4} - 1/576*\ln(1)*\ln(8)*F^{-4*\sin^4*\pi^4} \\
& - 11/5184*\ln(3)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*\pi^4} - 67/27*\ln(3)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*L8r*\pi^2} \\
& - 61/9*\ln(3)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*L7r*\pi^2} + 2*\ln(3)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*L6r*\pi^2} + 1/9*\ln(3)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*L5r*\pi^2} \\
& - 37/18*\ln(3)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*L4r*\pi^2} + 5/9*\ln(3)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*L2r*\pi^2} + 20/9*\ln(3)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*L1r*\pi^2} \\
& - 1/10368*\ln(3)*F^{-4*\pi^4} + 1/9*\ln(3)*F^{-4*L8r*\pi^2} + 1/18*\ln(3)*F^{-4*L7r*\pi^2} + 1/9*\ln(3)*F^{-4*L6r*\pi^2} \\
& - 5/108*\ln(3)*F^{-4*L5r*\pi^2} - 1/9*\ln(3)*F^{-4*L4r*\pi^2} + 1/36*\ln(3)*F^{-4*L3r*\pi^2} + 1/36*\ln(3)*F^{-4*L2r*\pi^2} \\
& + 1/9*\ln(3)*F^{-4*L1r*\pi^2} + 1/5184*\ln(3)*F^{-4*\sin^2*\pi^4} + 61/27*\ln(3)*F^{-4*\sin^2*L8r*\pi^2} + 67/9*\ln(3)*F^{-4*\sin^2*L7r*\pi^2} \\
& - 2/3*\ln(3)*F^{-4*\sin^2*L6r*\pi^2} + 1/9*\ln(3)*F^{-4*\sin^2*L5r*\pi^2} + 1/18*\ln(3)*F^{-4*\sin^2*L4r*\pi^2} - 1/9*\ln(3)*F^{-4*\sin^2*L3r*\pi^2} \\
& - 1/9*\ln(3)*F^{-4*\sin^2*L2r*\pi^2} - 4/9*\ln(3)*F^{-4*\sin^2*L1r*\pi^2} - 64/9*\ln(3)*F^{-4*\sin^4*L8r*\pi^2} - 64/3*\ln(3)*F^{-4*\sin^4*L7r*\pi^2} \\
& + 128/27*\ln(3)*F^{-4*\sin^4*L6r*\pi^2} + 128/9*\ln(3)*F^{-4*\sin^4*L5r*\pi^2} + 61/82944*\ln(3)^2*\sqrt{3}^{-1}*\sin^*\cos^*\pi^4 - 13/41472*\ln(3)^2*\sqrt{3}^{-1}*\pi^4 \\
& - 43/41472*\ln(3)^2*\sqrt{3}^{-1}*\sin^2*\pi^4 + 5/3456*\ln(3)^2*\sqrt{3}^{-1}*\sin^4*\pi^4 + 5/1728*\ln(3)^2*\sqrt{3}^{-1}*\sin^6*\pi^4 - 1/324*\ln(3)^2*\sqrt{3}^{-1}*\sin^8*\pi^4 \\
& + 7/3456*\ln(3)*\ln(4)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*\pi^4} - 23/3456*\ln(3)*\ln(4)*F^{-4*\sqrt{3}^{-1}*\sin^3*\cos^*\pi^4} + 1/216*\ln(3)*\ln(4)*F^{-4*\sqrt{3}^{-1}*\sin^5*\cos^*\pi^4} \\
& + 1/20736*\ln(3)*\ln(4)*F^{-4*\pi^4} - 31/20736*\ln(3)*\ln(4)*F^{-4*\sin^2*\pi^4} + 59/10368*\ln(3)*\ln(4)*F^{-4*\sin^4*\pi^4} - 1/216*\ln(3)*\ln(4)*F^{-4*\sin^6*\pi^4} \\
& - 1/192*\ln(3)*\ln(6)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*\pi^4} + 23/3456*\ln(3)*\ln(6)*F^{-4*\sqrt{3}^{-1}*\sin^3*\cos^*\pi^4} - 1/216*\ln(3)*\ln(6)*F^{-4*\sqrt{3}^{-1}*\sin^5*\cos^*\pi^4} \\
& - 1/20736*\ln(3)*\ln(6)*F^{-4*\pi^4} - 31/20736*\ln(3)*\ln(6)*F^{-4*\sin^2*\pi^4} + 59/10368*\ln(3)*\ln(6)*F^{-4*\sin^4*\pi^4} - 1/216*\ln(3)*\ln(6)*F^{-4*\sin^6*\pi^4} \\
& - 11/41472*\ln(3)*\ln(8)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*\pi^4} + 1/2592*\ln(3)*\ln(8)*F^{-4*\pi^4} - 1/1728*\ln(3)*\ln(8)*F^{-4*\sin^2*\pi^4} \\
& + 11/1728*\ln(3)*\ln(8)*F^{-4*\sin^4*\pi^4} - 31/2592*\ln(3)*\ln(8)*F^{-4*\sin^6*\pi^4} + 1/162*\ln(3)*\ln(8)*F^{-4*\sin^8*\pi^4} - 229/55296*\ln(4)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*\pi^4} \\
& + 2/3*\ln(4)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*L8r*\pi^2} + 10/3*\ln(4)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*L7r*\pi^2} - \ln(4)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*L6r*\pi^2} \\
& + \ln(4)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*L5r*\pi^2} - \ln(4)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*L4r*\pi^2} + \ln(4)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*L3r*\pi^2} \\
& - \ln(4)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*L2r*\pi^2} + \ln(4)*F^{-4*\sqrt{3}^{-1}*\sin^*\cos^*L1r*\pi^2}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x*\cos x*L6r*\pi^{-2} + 2/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2} + \\
& 13/12*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} - 25/48*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L3r*\pi^{-2} - 1/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} - \\
& 4/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} + 1/288*\ln(4)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*\pi^{-4} - 8/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - \\
& 8*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} + 151/331776*\ln(4)*F^{-4} \\
& 4*\pi^{-4} + 11/108*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} - 5/18*\ln(4)*F^{-4} \\
& 4*L7r*\pi^{-2} + 1/2*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L5r*\pi^{-2} - 11/24*\ln(4)*F^{-4} \\
& 4*L4r*\pi^{-2} + 11/96*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L3r*\pi^{-2} + 1/12*\ln(4)*F^{-4} \\
& 4*L2r*\pi^{-2} + 1/3*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L1r*\pi^{-2} - 23/165888*\ln(4)*F^{-4} \\
& 4*\sin x^2*\pi^{-4} - 43/54*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^2*L8r*\pi^{-2} - 11/9*\ln(4)*F^{-4} \\
& 4*\sin x^2*L7r*\pi^{-2} - \ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^2*L6r*\pi^{-2} + 7/36*\ln(4)*F^{-4} \\
& 4*\sin x^2*L5r*\pi^{-2} + 11/12*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^2*L4r*\pi^{-2} - 11/48*\ln(4)*F^{-4} \\
& 4*\sin x^2*L3r*\pi^{-2} - 1/6*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^2*L2r*\pi^{-2} - 2/3*\ln(4)*F^{-4} \\
& 4*\sin x^2*L1r*\pi^{-2} - 1/2592*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^4*\pi^{-4} + 8/27*\ln(4)*F^{-4} \\
& 4*\sin x^4*L8r*\pi^{-2} + 8/9*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x^4*L7r*\pi^{-2} - 25/18432*\ln(4) \\
& 2^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 19/110592*\ln(4)^2*F^{-4}*\sqrt{3}^{-1} \\
& 4*\pi^{-4} - 1/18432*\ln(4)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 7/9216*\ln(4) \\
& *\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 1/2304*\ln(4)*\ln(6)*F^{-4} \\
& 4*\pi^{-4} + 1/3456*\ln(4)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^2*\pi^{-4} - 1/864*\ln(4)*\ln(6) \\
& *F^{-4}*\sqrt{3}^{-1}*\sin x^4*\pi^{-4} - 59/6912*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& + 35/3456*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - 1/216*\ln(4)*\ln(8) \\
& *F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4} + 17/13824*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} - 1/3456*\ln(4) \\
& *\ln(8)*F^{-4} \\
& 4*\sin x^2*\pi^{-4} - 7/1152*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^4*\pi^{-4} + 1/216*\ln(4) \\
& *\ln(8)*F^{-4} \\
& 4*\sin x^6*\pi^{-4} - 23/18432*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 14/3*\ln(6) \\
& *F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 10*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} \\
& + 7*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2} + 2/3*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L5r*\pi^{-2} - 25/4*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2} \\
& + 21/16*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2} + \ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x*\cos x*L2r*\pi^{-2} + 4*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - \\
& 1/288*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 8/3*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin x^3*\cos x*L8r*\pi^{-2} + 8*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L7r*\pi^{-2} - \\
& 253/331776*\ln(6)*F^{-4}*\pi^{-4} + 55/108*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L8r*\pi^{-2} \\
& + 29/18*\ln(6)*F^{-4} \\
& 4*L7r*\pi^{-2} + 1/2*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L6r*\pi^{-2} + 1/72*\ln(6)*F^{-4} \\
& 4*L5r*\pi^{-2} - 7/24*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L4r*\pi^{-2} - 5/96*\ln(6)*F^{-4} \\
& 4*L3r*\pi^{-2} - 1/12*\ln(6)*F^{-4} \\
& 4*L2r*\pi^{-2} - 1/3*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*L1r*\pi^{-2} - 23/165888*\ln(6) \\
& *F^{-4} \\
& 4*\sin x^2*\pi^{-4} - 43/54*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^2*L8r*\pi^{-2} - 11/9*\ln(6)*F^{-4} \\
& 4*\sin x^2*L7r*\pi^{-2} - \ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^2*L6r*\pi^{-2} + 7/36*\ln(6)*F^{-4} \\
& 4*\sin x^2*L5r*\pi^{-2} + 11/12*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^2*L4r*\pi^{-2} - 11/48*\ln(6) \\
& *F^{-4} \\
& 4*\sin x^2*L3r*\pi^{-2} - 1/6*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^2*L2r*\pi^{-2} - 2/3*\ln(6) \\
& *F^{-4} \\
& 4*\sin x^2*L1r*\pi^{-2} - 1/2592*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^4*\pi^{-4} + 8/27*\ln(6) \\
& *F^{-4} \\
& 4*\sin x^4*L8r*\pi^{-2} + 8/9*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x^4*L7r*\pi^{-2} - 11/6144*\ln(6) \\
& ^2*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/288*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} - \\
& 37/110592*\ln(6)^2*F^{-4}*\pi^{-4} - 1/18432*\ln(6)^2*F^{-4}*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} \\
& + 1/768*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 35/3456*\ln(6)*\ln(8) \\
& *F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin x^3*\cos x*\pi^{-4} + 1/216*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x^5*\cos x*\pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4 + 11/13824*\ln(6)*\ln(8)*F^{-4*\pi^{-4}} - 1/3456*\ln(6)*\ln(8)*F^{-4*\sin x^2*\pi^{-4}} - \\
& 7/1152*\ln(6)*\ln(8)*F^{-4*\sin x^4*\pi^{-4}} + 1/216*\ln(6)*\ln(8)*F^{-4*\sin x^6*\pi^{-4}} - \\
& 53/20736*\ln(8)*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4}} + 43/9*\ln(8)*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2}} + \\
& 11*\ln(8)*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2}} - 22/9*\ln(8)*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*L6r*\pi^{-2}} - 5/9*\ln(8)*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*L5r*\pi^{-2}} + \\
& 43/18*\ln(8)*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*L4r*\pi^{-2}} + 1/3*\ln(8)*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*L3r*\pi^{-2}} + 2/3*\ln(8)*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2}} + \\
& 2/3*\ln(8)*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2}} - 1/4608*\ln(8)*F^{-4*\pi^{-4}} - 5/6*\ln(8)*F^{-4*L7r*\pi^{-2}} + 1/9*\ln(8)*F^{-4*L6r*\pi^{-2}} - \\
& 5/36*\ln(8)*F^{-4*L5r*\pi^{-2}} + 1/18*\ln(8)*F^{-4*L4r*\pi^{-2}} + 1/12*\ln(8)*F^{-4*L3r*\pi^{-2}} + 1/6*\ln(8)*F^{-4*L2r*\pi^{-2}} + 1/6*\ln(8)*F^{-4*L1r*\pi^{-2}} + \\
& 1/768*\ln(8)*F^{-4*\sin x^2*\pi^{-4}} - 167/27*\ln(8)*F^{-4*\sin x^2*L8r*\pi^{-2}} - 13*\ln(8)*F^{-4*\sin x^2*L7r*\pi^{-2}} - 14/9*\ln(8)*F^{-4*\sin x^2*L6r*\pi^{-2}} + \\
& 25/27*\ln(8)*F^{-4*\sin x^2*L5r*\pi^{-2}} + 11/18*\ln(8)*F^{-4*\sin x^2*L4r*\pi^{-2}} - 1/3*\ln(8)*F^{-4*\sin x^2*L3r*\pi^{-2}} - 2/3*\ln(8)*F^{-4*\sin x^2*L2r*\pi^{-2}} - \\
& 2/3*\ln(8)*F^{-4*\sin x^2*L1r*\pi^{-2}} + 64/9*\ln(8)*F^{-4*\sin x^4*L8r*\pi^{-2}} + 64/3*\ln(8)*F^{-4*\sin x^4*L7r*\pi^{-2}} - 128/27*\ln(8)*F^{-4*\sin x^6*L8r*\pi^{-2}} - \\
& 128/9*\ln(8)*F^{-4*\sin x^6*L7r*\pi^{-2}} - 41/27648*\ln(8)^2*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4}} - 1/6912*\ln(8)^2*F^{-4*\pi^{-4}} + 145/41472*\ln(8)^2*F^{-4*\sin x^2*\pi^{-4}} - \\
& 1/128*\ln(8)^2*F^{-4*\sin x^4*\pi^{-4}} + 47/5184*\ln(8)^2*F^{-4*\sin x^6*\pi^{-4}} - 1/324*\ln(8)^2*F^{-4*\sin x^8*\pi^{-4}} \\
& + \text{mud}^2*\text{mpp}^2*\text{mkp}^2 * (+ 61/20736/(\text{mass}(3))^*\ln(3)^2*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4}} - 1/31104/(\text{mass}(3))^*\ln(3)^2*F^{-4*\pi^{-4}} - 161/62208/(\text{mass}(3))^*\ln(3)^2*F^{-4*\sin x^2*\pi^{-4}} + 5/3888/(\text{mass}(3))^*\ln(3)^2*F^{-4*\sin x^4*\pi^{-4}} - 14336/27/(\text{mass}(3) - \text{mass}(8))*F^{-4*L8r^2} - 28672/9/(\text{mass}(3) - \text{mass}(8))*F^{-4*L7r*L8r} - 14336/3/(\text{mass}(3) - \text{mass}(8))*F^{-4*L7r^2} + 262144/27/(\text{mass}(3) - \text{mass}(8))*F^{-4*\sin x^2*L8r^2} + 524288/9/(\text{mass}(3) - \text{mass}(8))*F^{-4*\sin x^2*L7r*L8r} + 262144/3/(\text{mass}(3) - \text{mass}(8))*F^{-4*\sin x^2*L7r^2} - 262144/27/(\text{mass}(3) - \text{mass}(8))*F^{-4*\sin x^4*L8r^2} - 524288/9/(\text{mass}(3) - \text{mass}(8))*F^{-4*\sin x^4*L7r*L8r} - 262144/3/(\text{mass}(3) - \text{mass}(8))*F^{-4*\sin x^4*L7r^2} + 16/9/(\text{mass}(3) - \text{mass}(8))*\ln(1)*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2}} + 16/3/(\text{mass}(3) - \text{mass}(8))*\ln(1)*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2}} - 1/864/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(3)*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4}} - 1/10368/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(3)*F^{-4*\pi^{-4}} + 1/648/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(3)*F^{-4*\sin x^4*\pi^{-4}} + 1/3456/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(4)*F^{-4*\pi^{-4}} - 1/288/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(6)*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4}} - 1/3456/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(6)*F^{-4*\pi^{-4}} - 1/864/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(8)*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4}} + 1/10368/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(8)*F^{-4*\pi^{-4}} - 1/648/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(8)*F^{-4*\sin x^2*\pi^{-4}} + 1/648/(\text{mass}(3) - \text{mass}(8))*\ln(1)*\ln(8)*F^{-4*\sin x^4*\pi^{-4}} - 56/27/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2}} - 56/9/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2}} + 56/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4*L8r*\pi^{-2}} + 56/27/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4*L7r*\pi^{-2}} - 128/27/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4*\sin x^2*L8r*\pi^{-2}} -
\end{aligned}$$

$$\begin{aligned}
& 128/9/(mass(3) - mass(8))*ln(3)*F^{-4}*sinx^2*L7r*pi^{-2} - 896/81/(mass(3) - \\
& mass(8))*ln(3)*F^{-4}*sinx^4*L8r*pi^{-2} - 896/27/(mass(3) - mass(8))*ln(3)*F^{-4}*sinx^4*L7r*pi^{-2} + 1280/81/(mass(3) - mass(8))*ln(3)*F^{-4}*sinx^6*L8r*pi^{-2} \\
& + 1280/27/(mass(3) - mass(8))*ln(3)*F^{-4}*sinx^6*L7r*pi^{-2} + 7/5184/(mass(3) - \\
& mass(8))*ln(3)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 5/20736/(mass(3) - \\
& mass(8))*ln(3)^2*F^{-4}*pi^{-4} - 1/1944/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sinx^2*pi^{-4} + 13/1944/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sinx^4*pi^{-4} \\
& - 1/486/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sinx^6*pi^{-4} - 1/243/(mass(3) - \\
& mass(8))*ln(3)^2*F^{-4}*sinx^8*pi^{-4} - 25/5184/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} + 5/1296/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} + 1/108/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx^5*cosx*pi^{-4} - 1/5184/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*pi^{-4} + 5/1296/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sinx^2*pi^{-4} + 5/432/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sinx^4*pi^{-4} - 5/324/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sinx^6*pi^{-4} + 13/1296/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 5/1296/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} - 1/108/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sqrt3^{-1}*sinx^5*cosx*pi^{-4} - 11/10368/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*pi^{-4} + 5/1296/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sinx^2*pi^{-4} + 5/432/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sinx^4*pi^{-4} - 5/324/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sinx^6*pi^{-4} - 13/31104/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*pi^{-4} + 7/972/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*sinx^2*pi^{-4} + 1/972/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*sinx^4*pi^{-4} - 4/243/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*sinx^6*pi^{-4} + 2/243/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*sinx^8*pi^{-4} + 16/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} + 48/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*pi^{-2} - 256/9/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*L8r*pi^{-2} - 256/3/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*L7r*pi^{-2} - 512/27/(mass(3) - mass(8))*ln(4)*F^{-4}*sinx^2*L8r*pi^{-2} - 512/9/(mass(3) - mass(8))*ln(4)*F^{-4}*sinx^2*L7r*pi^{-2} + 512/27/(mass(3) - mass(8))*ln(4)*F^{-4}*sinx^4*L8r*pi^{-2} + 512/9/(mass(3) - mass(8))*ln(4)*F^{-4}*sinx^4*L7r*pi^{-2} - 5/288/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} + 1/36/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} + 13/13824/(mass(3) - mass(8))*ln(4)^2*F^{-4}*pi^{-4} + 55/6912/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sinx^2*pi^{-4} - 1/108/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sinx^4*pi^{-4} + 1/288/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 5/2304/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*pi^{-4} + 73/3456/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*sinx^2*pi^{-4} - 1/54/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*sinx^4*pi^{-4} - 83/5184/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} + 43/1296/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} - 1/108/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sqrt3^{-1}*sinx^5*cosx*pi^{-4} + 1/5184/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*pi^{-4} + 1/48/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sinx^2*pi^{-4} - 47/1296/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sinx^4*pi^{-4} + 5/324/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sinx^6*pi^{-4} - 160/9/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} - 160/3/(mass(3) - mass(8))*ln(6)*F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4^{\sqrt{3}-1} \sin x \cos x L7r \pi^{-2} + 256/9 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x L8r \pi^{-2} + 256/3 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x L7r \pi^{-2} + 56/27 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} L8r \pi^{-2} + 56/9 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} L7r \pi^{-2} - 512/27 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sin x^2 L8r \pi^{-2} - 512/9 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sin x^2 L7r \pi^{-2} + 512/27 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sin x^4 L8r \pi^{-2} + 512/9 / (\text{mass}(3) - \text{mass}(8)) \ln(6) F^{-4} \sin x^4 L7r \pi^{-2} + 5/288 / (\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 1/36 / (\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} - 11/13824 / (\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \pi^{-4} + 55/6912 / (\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sin x^2 \pi^{-4} - 1/108 / (\text{mass}(3) - \text{mass}(8)) \ln(6)^2 F^{-4} \sin x^4 \pi^{-4} + 17/1296 / (\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 43/1296 / (\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x^3 \cos x \pi^{-4} + 1/108 / (\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x^5 \cos x \pi^{-4} - 17/10368 / (\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \pi^{-4} + 1/48 / (\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sin x^2 \pi^{-4} - 47/1296 / (\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sin x^4 \pi^{-4} + 5/324 / (\text{mass}(3) - \text{mass}(8)) \ln(6) \ln(8) F^{-4} \sin x^6 \pi^{-4} + 56/27 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x L8r \pi^{-2} + 56/9 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sqrt{3}^{-1} \sin x \cos x L7r \pi^{-2} + 56/81 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} L8r \pi^{-2} + 56/27 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin x^2 L8r \pi^{-2} - 1664/27 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin x^2 L7r \pi^{-2} + 2944/81 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin x^4 L8r \pi^{-2} + 2944/27 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin x^4 L7r \pi^{-2} - 1280/81 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin x^6 L8r \pi^{-2} - 1280/27 / (\text{mass}(3) - \text{mass}(8)) \ln(8) F^{-4} \sin x^6 L7r \pi^{-2} - 7/5184 / (\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 5/20736 / (\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \pi^{-4} + 19/1944 / (\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin x^2 \pi^{-4} - 47/1944 / (\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin x^4 \pi^{-4} + 1/54 / (\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin x^6 \pi^{-4} - 1/243 / (\text{mass}(3) - \text{mass}(8)) \ln(8)^2 F^{-4} \sin x^8 \pi^{-4} - 89/9216 / (\text{mass}(4)) \ln(4)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 13/8192 / (\text{mass}(4)) \ln(4)^2 F^{-4} \pi^{-4} - 13/4096 / (\text{mass}(4)) \ln(4)^2 F^{-4} \sin x^2 \pi^{-4} - 65/9216 / (\text{mass}(5)) \ln(4)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 13/8192 / (\text{mass}(5)) \ln(4)^2 F^{-4} \pi^{-4} - 13/4096 / (\text{mass}(5)) \ln(4)^2 F^{-4} \sin x^2 \pi^{-4} + 143/9216 / (\text{mass}(6)) \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 23/24576 / (\text{mass}(6)) \ln(6)^2 F^{-4} \pi^{-4} - 13/4096 / (\text{mass}(6)) \ln(6)^2 F^{-4} \sin x^2 \pi^{-4} + 119/9216 / (\text{mass}(7)) \ln(6)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 13/8192 / (\text{mass}(7)) \ln(6)^2 F^{-4} \pi^{-4} - 13/4096 / (\text{mass}(7)) \ln(6)^2 F^{-4} \sin x^2 \pi^{-4} + 239/10368 / (\text{mass}(8)) \ln(8)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 277/13824 / (\text{mass}(8)) \ln(8)^2 F^{-4} \pi^{-4} - 329/15552 / (\text{mass}(8)) \ln(8)^2 F^{-4} \sin x^2 \pi^{-4} - 5/3888 / (\text{mass}(8)) \ln(8)^2 F^{-4} \sin x^4 \pi^{-4}) \\
& + \text{mud}^2 \text{mpp}^2 * (+ 5/3072 / (\text{mass}(1)) \ln(1)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 7/12288 / (\text{mass}(1)) \ln(1)^2 F^{-4} \pi^{-4} + 5/3072 / (\text{mass}(2)) \ln(1)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} - 7/12288 / (\text{mass}(2)) \ln(1)^2 F^{-4} \pi^{-4} - 73/82944 / (\text{mass}(3)) \ln(3)^2 F^{-4} \sqrt{3}^{-1} \sin x \cos x \pi^{-4} + 1/3888 / (\text{mass}(3)) \ln(3)^2 F^{-4}
\end{aligned}$$

$$\begin{aligned}
& 4\pi^4 + 181/248832/(\text{mass}(3))\ln(3)^2F^{-4}\sin^2\pi^4 - 5/7776/(\text{mass}(3))\ln(3)^2F^{-4} \\
& 4\sin^4\pi^4 + 7168/27/(\text{mass}(3) - \text{mass}(8))F^{-4}L8r^2 + 14336/9/(\text{mass}(3) \\
& - \text{mass}(8))F^{-4}L7rL8r + 7168/3/(\text{mass}(3) - \text{mass}(8))F^{-4}L7r^2 - \\
& 131072/27/(\text{mass}(3) - \text{mass}(8))F^{-4}\sin^2L8r^2 - 262144/9/(\text{mass}(3) \\
& - \text{mass}(8))F^{-4}\sin^2L7rL8r - 131072/3/(\text{mass}(3) - \text{mass}(8))F^{-4} \\
& 4\sin^2L7r^2 + 131072/27/(\text{mass}(3) - \text{mass}(8))F^{-4}\sin^4L8r^2 + \\
& 262144/9/(\text{mass}(3) - \text{mass}(8))F^{-4}\sin^4L7rL8r + 131072/3/(\text{mass}(3) - \\
& \text{mass}(8))F^{-4}\sin^4L7r^2 - 16/9/(\text{mass}(3) - \text{mass}(8))\ln(1)F^{-4}\sqrt{3}^3 \\
& 1\sin^*\cos^*L8r\pi^2 - 16/3/(\text{mass}(3) - \text{mass}(8))\ln(1)F^{-4}\sqrt{3}^3 \\
& 1\sin^*\cos^*L7r\pi^2 - 4/9/(\text{mass}(3) - \text{mass}(8))\ln(1)F^{-4}L8r\pi^2 \\
& 2 - 4/3/(\text{mass}(3) - \text{mass}(8))\ln(1)F^{-4}L7r\pi^2 + 64/27/(\text{mass}(3) - \\
& \text{mass}(8))\ln(1)F^{-4}\sin^2L8r\pi^2 + 64/9/(\text{mass}(3) - \text{mass}(8))\ln(1)F^{-4} \\
& 4\sin^2L7r\pi^2 - 64/27/(\text{mass}(3) - \text{mass}(8))\ln(1)F^{-4}\sin^4L8r\pi^2 \\
& - 64/9/(\text{mass}(3) - \text{mass}(8))\ln(1)F^{-4}\sin^4L7r\pi^2 - 1/6912/(\text{mass}(3) - \\
& \text{mass}(8))\ln(1)^2F^{-4}\pi^4 + 1/1728/(\text{mass}(3) - \text{mass}(8))\ln(1)\ln(3)F^{-4} \\
& 4\sqrt{3}^3 1\sin^*\cos^*\pi^4 + 5/20736/(\text{mass}(3) - \text{mass}(8))\ln(1)\ln(3)F^{-4} \\
& 4\pi^4 - 1/1296/(\text{mass}(3) - \text{mass}(8))\ln(1)\ln(3)F^{-4}\sin^2\pi^4 - \\
& 1/432/(\text{mass}(3) - \text{mass}(8))\ln(1)\ln(3)F^{-4}\sin^4\pi^4 + 1/324/(\text{mass}(3) - \\
& \text{mass}(8))\ln(1)\ln(3)F^{-4}\sin^6\pi^4 + 1/288/(\text{mass}(3) - \text{mass}(8))\ln(1)\ln(4)F^{-4} \\
& 4\sqrt{3}^3 1\sin^*\cos^*\pi^4 - 1/144/(\text{mass}(3) - \text{mass}(8))\ln(1)\ln(4)F^{-4} \\
& 4\sqrt{3}^3 1\sin^3\cos^*\pi^4 - 1/432/(\text{mass}(3) - \text{mass}(8))\ln(1)\ln(4)F^{-4} \\
& 4\sin^2\pi^4 + 1/432/(\text{mass}(3) - \text{mass}(8))\ln(1)\ln(4)F^{-4}\sin^4\pi^4 \\
& + 1/144/(\text{mass}(3) - \text{mass}(8))\ln(1)\ln(6)F^{-4}\sqrt{3}^3 1\sin^3\cos^*\pi^4 \\
& 4 + 1/864/(\text{mass}(3) - \text{mass}(8))\ln(1)\ln(6)F^{-4}\pi^4 - 1/432/(\text{mass}(3) - \\
& \text{mass}(8))\ln(1)\ln(6)F^{-4}\sin^2\pi^4 + 1/432/(\text{mass}(3) - \text{mass}(8))\ln(1)\ln(6)F^{-4} \\
& 4\sin^4\pi^4 + 1/576/(\text{mass}(3) - \text{mass}(8))\ln(1)\ln(8)F^{-4}\sqrt{3}^3 \\
& 1\sin^*\cos^*\pi^4 + 7/20736/(\text{mass}(3) - \text{mass}(8))\ln(1)\ln(8)F^{-4}\pi^4 \\
& - 1/432/(\text{mass}(3) - \text{mass}(8))\ln(1)\ln(8)F^{-4}\sin^2\pi^4 + 7/1296/(\text{mass}(3) - \\
& \text{mass}(8))\ln(1)\ln(8)F^{-4}\sin^4\pi^4 - 1/324/(\text{mass}(3) - \text{mass}(8))\ln(1)\ln(8)F^{-4} \\
& 4\sin^6\pi^4 - 28/81/(\text{mass}(3) - \text{mass}(8))\ln(3)F^{-4}L8r\pi^2 - 28/27/(\text{mass}(3) \\
& - \text{mass}(8))\ln(3)F^{-4}L7r\pi^2 + 128/27/(\text{mass}(3) - \text{mass}(8))\ln(3)F^{-4} \\
& 4\sin^2L8r\pi^2 + 128/9/(\text{mass}(3) - \text{mass}(8))\ln(3)F^{-4}\sin^2L7r\pi^2 \\
& - 128/81/(\text{mass}(3) - \text{mass}(8))\ln(3)F^{-4}\sin^4L8r\pi^2 - 128/27/(\text{mass}(3) - \\
& \text{mass}(8))\ln(3)F^{-4}\sin^4L7r\pi^2 - 256/81/(\text{mass}(3) - \text{mass}(8))\ln(3)F^{-4} \\
& 4\sin^6L8r\pi^2 - 256/27/(\text{mass}(3) - \text{mass}(8))\ln(3)F^{-4}\sin^6L7r\pi^2 \\
& 2 + 1/9216/(\text{mass}(3) - \text{mass}(8))\ln(3)^2F^{-4}\pi^4 - 7/7776/(\text{mass}(3) - \\
& \text{mass}(8))\ln(3)^2F^{-4}\sin^2\pi^4 - 17/7776/(\text{mass}(3) - \text{mass}(8))\ln(3)^2F^{-4} \\
& 4\sin^4\pi^4 + 1/243/(\text{mass}(3) - \text{mass}(8))\ln(3)^2F^{-4}\sin^6\pi^4 - \\
& 1/972/(\text{mass}(3) - \text{mass}(8))\ln(3)^2F^{-4}\sin^8\pi^4 + 1/648/(\text{mass}(3) - \\
& \text{mass}(8))\ln(3)\ln(4)F^{-4}\sqrt{3}^3 1\sin^*\cos^*\pi^4 - 17/2592/(\text{mass}(3) - \\
& \text{mass}(8))\ln(3)\ln(4)F^{-4}\sqrt{3}^3 1\sin^3\cos^*\pi^4 + 1/216/(\text{mass}(3) - \\
& \text{mass}(8))\ln(3)\ln(4)F^{-4}\sqrt{3}^3 1\sin^5\cos^*\pi^4 + 1/2592/(\text{mass}(3) - \\
& \text{mass}(8))\ln(3)\ln(4)F^{-4}\pi^4 - 11/2592/(\text{mass}(3) - \text{mass}(8))\ln(3)\ln(4)F^{-4} \\
& 4\sin^2\pi^4 + 7/2592/(\text{mass}(3) - \text{mass}(8))\ln(3)\ln(4)F^{-4}\sin^4\pi^4 + \\
& 1/648/(\text{mass}(3) - \text{mass}(8))\ln(3)\ln(4)F^{-4}\sin^6\pi^4 - 11/5184/(\text{mass}(3) \\
& - \text{mass}(8))\ln(3)\ln(6)F^{-4}\sqrt{3}^3 1\sin^*\cos^*\pi^4 + 17/2592/(\text{mass}(3)
\end{aligned}$$

$$\begin{aligned}
& 4*L8r*pi^{-2} - 28/27/(mass(3) - mass(8))*ln(8)*F^{-4}*L7r*pi^{-2} + 640/81/(mass(3) \\
& - mass(8))*ln(8)*F^{-4}*sinx^2*L8r*pi^{-2} + 640/27/(mass(3) - mass(8))*ln(8)*F^{-4} \\
& *sinx^2*L7r*pi^{-2} - 896/81/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^4*L8r*pi^{-2} \\
& - 896/27/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^4*L7r*pi^{-2} + 256/81/(mass(3) - \\
& mass(8))*ln(8)*F^{-4}*sinx^6*L8r*pi^{-2} + 256/27/(mass(3) - mass(8))*ln(8)*F^{-4} \\
& *sinx^6*L7r*pi^{-2} + 1/9216/(mass(3) - mass(8))*ln(8)^2*F^{-4}*pi^{-4} - \\
& 23/7776/(mass(3) - mass(8))*ln(8)^2*F^{-4}*sinx^2*pi^{-4} + 31/7776/(mass(3) - \\
& mass(8))*ln(8)^2*F^{-4}*sinx^4*pi^{-4} - 1/972/(mass(3) - mass(8))*ln(8)^2*F^{-4} \\
& *sinx^8*pi^{-4} + 31/24576/(mass(4))*ln(4)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} \\
& - 5/49152/(mass(4))*ln(4)^2*F^{-4}*pi^{-4} + 5/24576/(mass(4))*ln(4)^2*F^{-4} \\
& *sinx^2*pi^{-4} + 31/24576/(mass(5))*ln(4)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} \\
& - 5/49152/(mass(5))*ln(4)^2*F^{-4}*pi^{-4} + 5/24576/(mass(5))*ln(4)^2*F^{-4} \\
& *sinx^2*pi^{-4} - 59/8192/(mass(6))*ln(6)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} \\
& - 11/16384/(mass(6))*ln(6)^2*F^{-4}*pi^{-4} + 5/24576/(mass(6))*ln(6)^2*F^{-4} \\
& *sinx^2*pi^{-4} - 59/8192/(mass(7))*ln(6)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} \\
& - 11/16384/(mass(7))*ln(6)^2*F^{-4}*pi^{-4} + 5/24576/(mass(7))*ln(6)^2*F^{-4} \\
& *sinx^2*pi^{-4} - 199/41472/(mass(8))*ln(8)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - \\
& 1453/165888/(mass(8))*ln(8)^2*F^{-4}*pi^{-4} + 359/124416/(mass(8))*ln(8)^2*F^{-4} \\
& *sinx^2*pi^{-4} + 5/7776/(mass(8))*ln(8)^2*F^{-4}*sinx^4*pi^{-4}) \\
& + mud^3 * (+ 6535/663552*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} + 1187/497664*F^{-4} \\
& *sqrt3^{-1}*sinx*cosx*pi^{-2} - 55/54*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} + \\
& 8/3*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*pi^{-2} - 7/3*F^{-4}*sqrt3^{-1}*sinx*cosx*L6r*pi^{-2} \\
& + 103/108*F^{-4}*sqrt3^{-1}*sinx*cosx*L5r*pi^{-2} + 2560/9*F^{-4}*sqrt3^{-1} \\
& *sinx*cosx*L5r*L8r + 512/3*F^{-4}*sqrt3^{-1}*sinx*cosx*L5r*L7r + 512/3*F^{-4} \\
& *sqrt3^{-1}*sinx*cosx*L5r*L6r - 1024/9*F^{-4}*sqrt3^{-1}*sinx*cosx*L5r^2 + \\
& 7/6*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*pi^{-2} - 256/3*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*L8r \\
& - 768*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*L7r + 256*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*L6r \\
& - 512/3*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r*L5r - 128*F^{-4}*sqrt3^{-1}*sinx*cosx*L4r^2 \\
& - 133/432*F^{-4}*sqrt3^{-1}*sinx*cosx*L3r*pi^{-2} - 41/36*F^{-4}*sqrt3^{-1}*sinx*cosx*L2r*pi^{-2} \\
& - 4/9*F^{-4}*sqrt3^{-1}*sinx*cosx*L1r*pi^{-2} + 64/3*F^{-4}*sqrt3^{-1}*sinx*cosx*CC33 \\
& + 64/3*F^{-4}*sqrt3^{-1}*sinx*cosx*CC32 - 64*F^{-4}*sqrt3^{-1}*sinx*cosx*CC31 \\
& - 96*F^{-4}*sqrt3^{-1}*sinx*cosx*CC21 - 96*F^{-4}*sqrt3^{-1}*sinx*cosx*CC20 - \\
& 96*F^{-4}*sqrt3^{-1}*sinx*cosx*CC19 + 64/3*F^{-4}*sqrt3^{-1}*sinx*cosx*CC18 + \\
& 320/9*F^{-4}*sqrt3^{-1}*sinx*cosx*CC17 + 352/3*F^{-4}*sqrt3^{-1}*sinx*cosx*CC16 \\
& + 64/3*F^{-4}*sqrt3^{-1}*sinx*cosx*CC15 + 320/9*F^{-4}*sqrt3^{-1}*sinx*cosx*CC14 \\
& + 128/3*F^{-4}*sqrt3^{-1}*sinx*cosx*CC13 + 512/9*F^{-4}*sqrt3^{-1}*sinx*cosx*CC12 \\
& + 11467/1990656*F^{-4}*pi^{-4} + 877/746496*F^{-4}*pi^{-2} - 5/108*F^{-4}*L8r*pi^{-2} \\
& - 4/27*F^{-4}*L7r*pi^{-2} + 1/54*F^{-4}*L6r*pi^{-2} - 1/648*F^{-4}*L5r*pi^{-2} \\
& + 640/9*F^{-4}*L5r*L8r - 256/9*F^{-4}*L5r*L7r + 896/9*F^{-4}*L5r*L6r \\
& - 1088/27*F^{-4}*L5r^2 - 1/108*F^{-4}*L4r*pi^{-2} + 512/3*F^{-4}*L4r*L8r \\
& + 640/3*F^{-4}*L4r*L7r + 256/3*F^{-4}*L4r*L6r - 896/9*F^{-4}*L4r*L5r - \\
& 128/3*F^{-4}*L4r^2 - 55/864*F^{-4}*L3r*pi^{-2} - 29/108*F^{-4}*L2r*pi^{-2} - \\
& 17/108*F^{-4}*L1r*pi^{-2} - 32/3*F^{-4}*CC33 - 128/3*F^{-4}*CC32 - 64/3*F^{-4} \\
& *CC31 - 32*F^{-4}*CC21 - 64*F^{-4}*CC20 - 32*F^{-4}*CC19 - 32/9*F^{-4}*CC18 + \\
& 80/9*F^{-4}*CC17 + 64/3*F^{-4}*CC16 + 112/9*F^{-4}*CC15 + 80/9*F^{-4}*CC14
\end{aligned}$$

$$\begin{aligned}
& + 224/9F^{-4}CC13 + 544/27F^{-4}CC12 - 7567/1990656F^{-4}\sin x^2\pi^4 - \\
& 4 - 1091/1492992F^{-4}\sin x^2\pi^2 - 7/54F^{-4}\sin x^2L8r\pi^2 - \\
& 8/27F^{-4}\sin x^2L7r\pi^2 + 1/27F^{-4}\sin x^2L6r\pi^2 + 5/324F^{-4}\sin x^2L5r\pi^2 - \\
& 512/9F^{-4}\sin x^2L5rL8r - 512/9F^{-4}\sin x^2L5rL7r - \\
& 512/9F^{-4}\sin x^2L5rL6r + 512/27F^{-4}\sin x^2L5r^2 - 1/54F^{-4}\sin x^2L4r\pi^2 - \\
& 256/3F^{-4}\sin x^2L4rL8r - 256/3F^{-4}\sin x^2L4rL7r - \\
& 256/3F^{-4}\sin x^2L4rL6r + 512/9F^{-4}\sin x^2L4rL5r + 128/3F^{-4}\sin x^2L4r^2 + \\
& 19/432F^{-4}\sin x^2L3r\pi^2 + 17/108F^{-4}\sin x^2L2r\pi^2 + 2/27F^{-4}\sin x^2L1r\pi^2 + \\
& 64/3F^{-4}\sin x^2CC33 + 64/3F^{-4}\sin x^2CC32 + 64/3F^{-4}\sin x^2CC31 + 32F^{-4}\sin x^2CC21 + \\
& 32F^{-4}\sin x^2CC20 + 32F^{-4}\sin x^2CC19 - 64/9F^{-4}\sin x^2CC18 - 64/9F^{-4}\sin x^2CC17 - \\
& 32/3F^{-4}\sin x^2CC16 - 64/9F^{-4}\sin x^2CC15 - 64/9F^{-4}\sin x^2CC14 - 128/9F^{-4}\sin x^2CC13 - \\
& 256/27F^{-4}\sin x^2CC12 - 1/648\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^4 - 52/27\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL8r\pi^2 - \\
& 28/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL7r\pi^2 + 4/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL5r\pi^2 - 2/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL4r\pi^2 + \\
& 2/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL3r\pi^2 + 2/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL2r\pi^2 + 8/9\ln(3)F^{-4}\sqrt{3}^{-1}\sin x\cos xL1r\pi^2 + \\
& 1/10368\ln(3)F^{-4}\pi^4 + 2/9\ln(3)F^{-4}L8r\pi^2 + 4/9\ln(3)F^{-4}L7r\pi^2 - 1/9\ln(3)F^{-4}L6r\pi^2 - \\
& 1/27\ln(3)F^{-4}L5r\pi^2 + 1/9\ln(3)F^{-4}L4r\pi^2 - 1/36\ln(3)F^{-4}L3r\pi^2 - 1/36\ln(3)F^{-4}L2r\pi^2 - \\
& 1/9\ln(3)F^{-4}L1r\pi^2 + 1/1944\ln(3)F^{-4}\sin x^2\pi^4 + 104/81\ln(3)F^{-4}\sin x^2L8r\pi^2 + 64/27\ln(3)F^{-4}\sin x^2L7r\pi^2 + \\
& 16/27\ln(3)F^{-4}\sin x^2L6r\pi^2 - 20/81\ln(3)F^{-4}\sin x^2L5r\pi^2 - 4/9\ln(3)F^{-4}\sin x^2L4r\pi^2 - \\
& 1/1944\ln(3)F^{-4}\sin x^4\pi^4 - 56/27\ln(3)F^{-4}\sin x^4L8r\pi^2 - 128/27\ln(3)F^{-4}\sin x^4L7r\pi^2 - \\
& 16/27\ln(3)F^{-4}\sin x^4L6r\pi^2 + 20/81\ln(3)F^{-4}\sin x^4L5r\pi^2 + 4/9\ln(3)F^{-4}\sin x^4L4r\pi^2 + 64/81\ln(3)F^{-4}\sin x^6L8r\pi^2 + \\
& 64/27\ln(3)F^{-4}\sin x^6L7r\pi^2 + 73/82944\ln(3)^2F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^4 - 19/82944\ln(3)^2F^{-4}\pi^4 - \\
& 11/31104\ln(3)^2F^{-4}\sin x^2\pi^4 - 7/31104\ln(3)^2F^{-4}\sin x^4\pi^4 + 25/15552\ln(3)^2F^{-4}\sin x^6\pi^4 - \\
& 1/972\ln(3)^2F^{-4}\sin x^8\pi^4 + 19/20736\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^4 - 31/10368\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x\pi^4 + \\
& 1/432\ln(3)\ln(4)F^{-4}\sqrt{3}^{-1}\sin x^5\cos x\pi^4 - 23/82944\ln(3)\ln(4)F^{-4}\pi^4 + 1/1152\ln(3)\ln(4)F^{-4}\sin x^2\pi^4 - \\
& 1/10368\ln(3)\ln(4)F^{-4}\sin x^4\pi^4 - 1/1296\ln(3)\ln(4)F^{-4}\sin x^6\pi^4 - 121/20736\ln(3)\ln(6)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^4 + \\
& 31/10368\ln(3)\ln(6)F^{-4}\sqrt{3}^{-1}\sin x^3\cos x\pi^4 - 1/432\ln(3)\ln(6)F^{-4}\sqrt{3}^{-1}\sin x^5\cos x\pi^4 + \\
& 19/41472\ln(3)\ln(6)F^{-4}\pi^4 + 1/1152\ln(3)\ln(6)F^{-4}\sin x^2\pi^4 - 1/10368\ln(3)\ln(6)F^{-4}\sin x^4\pi^4 - \\
& 1/1296\ln(3)\ln(6)F^{-4}\sin x^6\pi^4 - 17/41472\ln(3)\ln(8)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^4 + 11/41472\ln(3)\ln(8)F^{-4}\pi^4 - \\
& 11/15552\ln(3)\ln(8)F^{-4}\sin x^2\pi^4 + 5/1728\ln(3)\ln(8)F^{-4}\sin x^4\pi^4 - 11/2592\ln(3)\ln(8)F^{-4}\sin x^6\pi^4 + \\
& 1/486\ln(3)\ln(8)F^{-4}\sin x^8\pi^4 - 55/41472\ln(4)F^{-4}\sqrt{3}^{-1}\sin x\cos x\pi^4 + 23/108\ln(4)F^{-4}\sqrt{3}^{-1}\sin x\cos xL8r\pi^2 + \\
& 13/18\ln(4)F^{-4}\sqrt{3}^{-1}\sin x\cos xL7r\pi^2 + 1/72\ln(4)F^{-4}\sqrt{3}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x*\cos x*L5r*\pi^{-2} + 1/12*\ln(4)*F^{-4*\sqrt{3}^{-1}}*\sin x*\cos x*L4r*\pi^{-2} - \\
& 7/48*\ln(4)*F^{-4*\sqrt{3}^{-1}}*\sin x*\cos x*L3r*\pi^{-2} - 1/12*\ln(4)*F^{-4*\sqrt{3}^{-1}} \\
& 1*\sin x*\cos x*L2r*\pi^{-2} - 1/3*\ln(4)*F^{-4*\sqrt{3}^{-1}}*\sin x*\cos x*L1r*\pi^{-2} + \\
& 1/1296*\ln(4)*F^{-4*\sqrt{3}^{-1}}*\sin x^3*\cos x*\pi^{-4} - 16/27*\ln(4)*F^{-4*\sqrt{3}^{-1}} \\
& 1*\sin x^3*\cos x*L8r*\pi^{-2} - 16/9*\ln(4)*F^{-4*\sqrt{3}^{-1}}*\sin x^3*\cos x*L7r*\pi^{-2} \\
& + 43/82944*\ln(4)*F^{-4*\pi^{-4}} + 1/216*\ln(4)*F^{-4*L8r*\pi^{-2}} - 1/36*\ln(4)*F^{-4} \\
& 4*L7r*\pi^{-2} - 1/144*\ln(4)*F^{-4*L5r*\pi^{-2}} - 1/24*\ln(4)*F^{-4*L4r*\pi^{-2}} \\
& + 7/96*\ln(4)*F^{-4*L3r*\pi^{-2}} + 1/24*\ln(4)*F^{-4*L2r*\pi^{-2}} + 1/6*\ln(4)*F^{-4} \\
& 4*L1r*\pi^{-2} - 13/13824*\ln(4)*F^{-4*\sin x^2*\pi^{-4}} - 1/12*\ln(4)*F^{-4*\sin x^2*L8r*\pi^{-2}} \\
& - 1/6*\ln(4)*F^{-4*\sin x^2*L7r*\pi^{-2}} + 1/72*\ln(4)*F^{-4*\sin x^2*L5r*\pi^{-2}} \\
& + 1/12*\ln(4)*F^{-4*\sin x^2*L4r*\pi^{-2}} - 7/48*\ln(4)*F^{-4*\sin x^2*L3r*\pi^{-2}} \\
& - 1/12*\ln(4)*F^{-4*\sin x^2*L2r*\pi^{-2}} - 1/3*\ln(4)*F^{-4*\sin x^2*L1r*\pi^{-2}} \\
& - 1/13824*\ln(4)^2*F^{-4*\sqrt{3}^{-1}}*\sin x*\cos x*\pi^{-4} + 1/1728*\ln(4)^2*F^{-4*\sqrt{3}^{-1}} \\
& 1*\sin x^3*\cos x*\pi^{-4} + 1/27648*\ln(4)^2*F^{-4*\pi^{-4}} - 5/13824*\ln(4)^2*F^{-4*\sin x^2*\pi^{-4}} \\
& + 1/1728*\ln(4)^2*F^{-4*\sin x^4*\pi^{-4}} + 1/18432*\ln(4)*\ln(6)*F^{-4*\sqrt{3}^{-1}} \\
& 1*\sin x*\cos x*\pi^{-4} - 1/4096*\ln(4)*\ln(6)*F^{-4*\pi^{-4}} + 67/55296*\ln(4)*\ln(6)*F^{-4*\sin x^2*\pi^{-4}} \\
& - 1/864*\ln(4)*\ln(6)*F^{-4*\sin x^4*\pi^{-4}} - 1/384*\ln(4)*\ln(8)*F^{-4*\sqrt{3}^{-1}} \\
& 1*\sin x*\cos x*\pi^{-4} + 13/3456*\ln(4)*\ln(8)*F^{-4*\sqrt{3}^{-1}}*\sin x^3*\cos x*\pi^{-4} \\
& - 1/432*\ln(4)*\ln(8)*F^{-4*\sqrt{3}^{-1}}*\sin x^5*\cos x*\pi^{-4} + 1/1024*\ln(4)*\ln(8)*F^{-4*\pi^{-4}} \\
& - 5/2304*\ln(4)*\ln(8)*F^{-4*\sin x^2*\pi^{-4}} + 1/10368*\ln(4)*\ln(8)*F^{-4*\sin x^4*\pi^{-4}} \\
& + 1/1296*\ln(4)*\ln(8)*F^{-4*\sin x^6*\pi^{-4}} + 349/41472*\ln(6)*F^{-4*\sqrt{3}^{-1}} \\
& 1*\sin x*\cos x*\pi^{-4} - 617/108*\ln(6)*F^{-4*\sqrt{3}^{-1}}*\sin x*\cos x*L8r*\pi^{-2} \\
& - 115/18*\ln(6)*F^{-4*\sqrt{3}^{-1}}*\sin x*\cos x*L7r*\pi^{-2} + 43/24*\ln(6)*F^{-4*\sqrt{3}^{-1}} \\
& 1*\sin x*\cos x*L5r*\pi^{-2} - 5/4*\ln(6)*F^{-4*\sqrt{3}^{-1}}*\sin x*\cos x*L4r*\pi^{-2} \\
& + 35/16*\ln(6)*F^{-4*\sqrt{3}^{-1}}*\sin x*\cos x*L3r*\pi^{-2} + 5/4*\ln(6)*F^{-4*\sqrt{3}^{-1}} \\
& 1*\sin x*\cos x*L2r*\pi^{-2} + 5*\ln(6)*F^{-4*\sqrt{3}^{-1}}*\sin x*\cos x*L1r*\pi^{-2} - \\
& 1/1296*\ln(6)*F^{-4*\sqrt{3}^{-1}}*\sin x^3*\cos x*\pi^{-4} + 16/27*\ln(6)*F^{-4*\sqrt{3}^{-1}} \\
& 1*\sin x^3*\cos x*L8r*\pi^{-2} + 16/9*\ln(6)*F^{-4*\sqrt{3}^{-1}}*\sin x^3*\cos x*L7r*\pi^{-2} \\
& + 317/82944*\ln(6)*F^{-4*\pi^{-4}} + 89/216*\ln(6)*F^{-4*L8r*\pi^{-2}} + 55/36*\ln(6)*F^{-4} \\
& 4*L7r*\pi^{-2} + 7/144*\ln(6)*F^{-4*L5r*\pi^{-2}} - 5/24*\ln(6)*F^{-4*L4r*\pi^{-2}} + \\
& 47/96*\ln(6)*F^{-4*L3r*\pi^{-2}} + 5/24*\ln(6)*F^{-4*L2r*\pi^{-2}} + 5/6*\ln(6)*F^{-4} \\
& 4*L1r*\pi^{-2} - 13/13824*\ln(6)*F^{-4*\sin x^2*\pi^{-4}} - 1/12*\ln(6)*F^{-4*\sin x^2*L8r*\pi^{-2}} \\
& - 1/6*\ln(6)*F^{-4*\sin x^2*L7r*\pi^{-2}} + 1/72*\ln(6)*F^{-4*\sin x^2*L5r*\pi^{-2}} \\
& + 1/12*\ln(6)*F^{-4*\sin x^2*L4r*\pi^{-2}} - 7/48*\ln(6)*F^{-4*\sin x^2*L3r*\pi^{-2}} \\
& - 1/12*\ln(6)*F^{-4*\sin x^2*L2r*\pi^{-2}} - 1/3*\ln(6)*F^{-4*\sin x^2*L1r*\pi^{-2}} - \\
& 101/13824*\ln(6)^2*F^{-4*\sqrt{3}^{-1}}*\sin x*\cos x*\pi^{-4} - 1/1728*\ln(6)^2*F^{-4*\sqrt{3}^{-1}} \\
& 1*\sin x^3*\cos x*\pi^{-4} - 55/27648*\ln(6)^2*F^{-4*\pi^{-4}} - 5/13824*\ln(6)^2*F^{-4*\sin x^2*\pi^{-4}} \\
& + 1/1728*\ln(6)^2*F^{-4*\sin x^4*\pi^{-4}} + 35/3456*\ln(6)*\ln(8)*F^{-4*\sqrt{3}^{-1}} \\
& 1*\sin x*\cos x*\pi^{-4} - 13/3456*\ln(6)*\ln(8)*F^{-4*\sqrt{3}^{-1}}*\sin x^3*\cos x*\pi^{-4} \\
& + 1/432*\ln(6)*\ln(8)*F^{-4*\sqrt{3}^{-1}}*\sin x^5*\cos x*\pi^{-4} + 7/1728*\ln(6)*\ln(8)*F^{-4*\pi^{-4}} \\
& - 5/2304*\ln(6)*\ln(8)*F^{-4*\sin x^2*\pi^{-4}} + 1/10368*\ln(6)*\ln(8)*F^{-4*\sin x^4*\pi^{-4}} \\
& + 1/1296*\ln(6)*\ln(8)*F^{-4*\sin x^6*\pi^{-4}} - 61/10368*\ln(8)*F^{-4*\sqrt{3}^{-1}} \\
& 1*\sin x*\cos x*\pi^{-4} + 52/9*\ln(8)*F^{-4*\sqrt{3}^{-1}}*\sin x*\cos x*L8r*\pi^{-2} \\
& + 4*\ln(8)*F^{-4*\sqrt{3}^{-1}}*\sin x*\cos x*L7r*\pi^{-2} + 56/9*\ln(8)*F^{-4*\sqrt{3}^{-1}} \\
& 1*\sin x*\cos x*L6r*\pi^{-2} - 20/9*\ln(8)*F^{-4*\sqrt{3}^{-1}}*\sin x*\cos x*L5r*\pi^{-2} - \\
& 22/9*\ln(8)*F^{-4*\sqrt{3}^{-1}}*\sin x*\cos x*L4r*\pi^{-2} + 4/3*\ln(8)*F^{-4*\sqrt{3}^{-1}}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin x*\cos x*L3r*\pi^{-2} + 8/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L2r*\pi^{-2} \\
& + 8/3*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L1r*\pi^{-2} - 13/7776*\ln(8)*F^{-4}*\pi^{-4} \\
& + 44/27*\ln(8)*F^{-4}*L8r*\pi^{-2} - 8/27*\ln(8)*F^{-4}*L7r*\pi^{-2} + 79/27*\ln(8)*F^{-4}*L6r*\pi^{-2} \\
& - 70/81*\ln(8)*F^{-4}*L5r*\pi^{-2} - 38/27*\ln(8)*F^{-4}*L4r*\pi^{-2} + 17/36*\ln(8)*F^{-4}*L3r*\pi^{-2} \\
& + 17/18*\ln(8)*F^{-4}*L2r*\pi^{-2} + 17/18*\ln(8)*F^{-4}*L1r*\pi^{-2} + 1/3456*\ln(8)*F^{-4}*\sin^2*\pi^{-4} \\
& - 224/81*\ln(8)*F^{-4}*\sin^2*L8r*\pi^{-2} - 104/27*\ln(8)*F^{-4}*\sin^2*L7r*\pi^{-2} - 56/27*\ln(8)*F^{-4}*\sin^2*L6r*\pi^{-2} \\
& + 20/27*\ln(8)*F^{-4}*\sin^2*L5r*\pi^{-2} + 32/27*\ln(8)*F^{-4}*\sin^2*L4r*\pi^{-2} - 2/9*\ln(8)*F^{-4}*\sin^2*L3r*\pi^{-2} \\
& - 4/9*\ln(8)*F^{-4}*\sin^2*L2r*\pi^{-2} - 4/9*\ln(8)*F^{-4}*\sin^2*L1r*\pi^{-2} + 1/1944*\ln(8)*F^{-4}*\sin^4*\pi^{-4} \\
& + 56/27*\ln(8)*F^{-4}*\sin^4*L8r*\pi^{-2} + 128/27*\ln(8)*F^{-4}*\sin^4*L7r*\pi^{-2} + 16/27*\ln(8)*F^{-4}*\sin^4*L6r*\pi^{-2} \\
& - 20/81*\ln(8)*F^{-4}*\sin^4*L5r*\pi^{-2} - 4/9*\ln(8)*F^{-4}*\sin^4*L4r*\pi^{-2} - 64/81*\ln(8)*F^{-4}*\sin^6*L8r*\pi^{-2} \\
& - 64/27*\ln(8)*F^{-4}*\sin^6*L7r*\pi^{-2} - 77/27648*\ln(8)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 91/82944*\ln(8)^2*F^{-4}*\pi^{-4} \\
& + 19/10368*\ln(8)^2*F^{-4}*\sin^2*\pi^{-4} - 83/31104*\ln(8)^2*F^{-4}*\sin^4*\pi^{-4} + 41/15552*\ln(8)^2*F^{-4}*\sin^6*\pi^{-4} \\
& - 1/972*\ln(8)^2*F^{-4}*\sin^8*\pi^{-4}) \\
& + \text{mud}^3*\text{mkp}2 * (- 73/20736/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} \\
& + 73/124416/(\text{mass}(3))*\ln(3)^2*F^{-4}*\pi^{-4} + 5/2916/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sin^2*\pi^{-4} \\
& - 5/2916/(\text{mass}(3))*\ln(3)^2*F^{-4}*\sin^4*\pi^{-4} - 7168/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}*L8r^2 \\
& - 14336/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}*L7r*L8r - 7168/3/(\text{mass}(3) - \text{mass}(8))*F^{-4}*L7r^2 \\
& + 131072/81/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin^2*L8r^2 + 262144/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin^2*L7r*L8r \\
& + 131072/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin^2*L7r^2 - 131072/81/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin^4*L8r^2 \\
& - 262144/27/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin^4*L7r*L8r - 131072/9/(\text{mass}(3) - \text{mass}(8))*F^{-4}*\sin^4*L7r^2 \\
& - 8/9/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L8r*\pi^{-2} - 8/3/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*L7r*\pi^{-2} \\
& + 28/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*L8r*\pi^{-2} + 28/27/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*L7r*\pi^{-2} \\
& - 1024/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin^4*L8r*\pi^{-2} - 1024/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin^4*L7r*\pi^{-2} \\
& + 1024/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin^6*L8r*\pi^{-2} + 1024/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*F^{-4}*\sin^6*L7r*\pi^{-2} \\
& + 1/1728/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 1/10368/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\pi^{-4} \\
& - 1/2916/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin^2*\pi^{-4} + 1/2916/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin^4*\pi^{-4} \\
& + 2/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin^6*\pi^{-4} - 2/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)^2*F^{-4}*\sin^8*\pi^{-4} \\
& + 13/15552/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} - 2/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos x*\pi^{-4} \\
& + 1/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^5*\cos x*\pi^{-4} - 1/20736/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\pi^{-4} \\
& + 1/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sin^4*\pi^{-4} - 1/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(4)*F^{-4}*\sin^6*\pi^{-4} \\
& + 7/7776/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin x*\cos x*\pi^{-4} + 2/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1}
\end{aligned}$$

$$\begin{aligned}
& 1*\sin^3*\cos^*\pi^{-4} - 1/81/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sqrt{3}^{-1} \\
& 1*\sin^5*\cos^*\pi^{-4} - 13/20736/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\pi^{-4} + 1/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sin^4*\pi^{-4} - \\
& 1/243/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(6)*F^{-4}*\sin^6*\pi^{-4} - 1/3888/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\pi^{-4} + 1/1458/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4} \\
& 4*\sin^2*\pi^{-4} + 7/1458/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin^4*\pi^{-4} - 8/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin^6*\pi^{-4} + 4/729/(\text{mass}(3) - \text{mass}(8))*\ln(3)*\ln(8)*F^{-4}*\sin^8*\pi^{-4} + 128/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin^*\cos^*L8r*\pi^{-2} + 128/9/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*L7r*\pi^{-2} - 256/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^*L8r*\pi^{-2} - 256/9/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4} \\
& 4*\sqrt{3}^{-1}*\sin^3*\cos^*L7r*\pi^{-2} - 4/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}L8r*\pi^{-2} - 4/9/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}L7r*\pi^{-2} - 256/81/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sin^2*L8r*\pi^{-2} - 256/27/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sin^2*L7r*\pi^{-2} + 256/81/(\text{mass}(3) - \text{mass}(8))*\ln(4)*F^{-4}*\sin^4*L8r*\pi^{-2} - 79/13824/(\text{mass}(3) - \text{mass}(8))*\ln(4)^2F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} + 1/108/(\text{mass}(3) - \text{mass}(8))*\ln(4)^2F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^*\pi^{-4} + 11/6912/(\text{mass}(3) - \text{mass}(8))*\ln(4)^2F^{-4}*\sin^2*\pi^{-4} + 1/324/(\text{mass}(3) - \text{mass}(8))*\ln(4)^2F^{-4}*\sin^4*\pi^{-4} + 5/2304/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} - 5/1728/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(6)*F^{-4}*\pi^{-4} + 73/5184/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(6)*F^{-4}*\sin^2*\pi^{-4} - 1/81/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(6)*F^{-4}*\sin^4*\pi^{-4} - 109/15552/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} + 5/243/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^*\pi^{-4} - 1/81/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^5*\cos^*\pi^{-4} + 5/20736/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(8)*F^{-4}*\pi^{-4} + 1/243/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(8)*F^{-4}*\sin^2*\pi^{-4} - 2/243/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(8)*F^{-4}*\sin^4*\pi^{-4} + 1/243/(\text{mass}(3) - \text{mass}(8))*\ln(4)*\ln(8)*F^{-4}*\sin^6*\pi^{-4} - 128/27/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*L8r*\pi^{-2} - 128/9/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*L7r*\pi^{-2} + 256/27/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^*L8r*\pi^{-2} + 256/9/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^*L7r*\pi^{-2} + 32/27/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}L8r*\pi^{-2} + 32/9/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}L7r*\pi^{-2} - 256/81/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}*\sin^2*L8r*\pi^{-2} - 256/27/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}*\sin^2*L7r*\pi^{-2} + 256/81/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}*\sin^4*L8r*\pi^{-2} + 256/27/(\text{mass}(3) - \text{mass}(8))*\ln(6)*F^{-4}*\sin^4*L7r*\pi^{-2} + 49/13824/(\text{mass}(3) - \text{mass}(8))*\ln(6)^2F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} - 1/108/(\text{mass}(3) - \text{mass}(8))*\ln(6)^2F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^*\pi^{-4} + 1/3456/(\text{mass}(3) - \text{mass}(8))*\ln(6)^2F^{-4}*\pi^{-4} - 41/10368/(\text{mass}(3) - \text{mass}(8))*\ln(6)^2F^{-4}*\sin^2*\pi^{-4} + 1/324/(\text{mass}(3) - \text{mass}(8))*\ln(6)^2F^{-4}*\sin^4*\pi^{-4} + 41/7776/(\text{mass}(3) - \text{mass}(8))*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^*\cos^*\pi^{-4} - 5/243/(\text{mass}(3) - \text{mass}(8))*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^3*\cos^*\pi^{-4} + 1/81/(\text{mass}(3) - \text{mass}(8))*\ln(6)*\ln(8)*F^{-4}*\sqrt{3}^{-1}*\sin^5*\cos^*\pi^{-4} - 19/20736/(\text{mass}(3) - \text{mass}(8))*\ln(6)*\ln(8)*F^{-4}*\pi^{-4} + 1/243/(\text{mass}(3) -
\end{aligned}$$

$$\begin{aligned}
& \text{mass}(8) * \ln(6) * \ln(8) * F^{-4} * \sin^2 \pi^{-4} - 2/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin^4 \pi^{-4} \\
& + 1/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin^6 \pi^{-4} + 8/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^2 \pi^{-2} \\
& + 8/3 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^2 \pi^{-2} * L8r * \pi^{-2} + 28/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * L8r * \pi^{-2} \\
& + 28/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * L8r * \pi^{-2} - 1024/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^2 \pi^{-2} * L8r * \pi^{-2} \\
& - 1024/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^2 \pi^{-2} * L7r * \pi^{-2} + 2048/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^4 \pi^{-4} * L8r * \pi^{-2} \\
& + 2048/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^4 \pi^{-4} * L7r * \pi^{-2} - 1024/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^6 \pi^{-6} * L8r * \pi^{-2} \\
& - 1024/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^6 \pi^{-6} * L7r * \pi^{-2} - 1/1728 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^2 \pi^{-2} * \pi^{-4} \\
& - 1/10368 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \pi^{-4} + 7/2916 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^2 \pi^{-2} * \pi^{-4} \\
& - 23/2916 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^4 \pi^{-4} * \pi^{-4} + 2/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^6 \pi^{-6} * \pi^{-4} \\
& - 2/729 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin^8 \pi^{-8} * \pi^{-4} - 125/36864 / (\text{mass}(4)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^2 \pi^{-2} * \pi^{-4} \\
& + 25/18432 / (\text{mass}(4)) * \ln(4) * F^{-4} * \pi^{-4} - 25/9216 / (\text{mass}(4)) * \ln(4) * F^{-4} * \sin^2 \pi^{-2} * \pi^{-4} - 65/36864 / (\text{mass}(5)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin^2 \pi^{-2} * \pi^{-4} \\
& + 13/18432 / (\text{mass}(5)) * \ln(4) * F^{-4} * \pi^{-4} - 13/9216 / (\text{mass}(5)) * \ln(4) * F^{-4} * \sin^2 \pi^{-2} * \pi^{-4} + 823/36864 / (\text{mass}(6)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^2 \pi^{-2} * \pi^{-4} \\
& + 95/9216 / (\text{mass}(6)) * \ln(6) * F^{-4} * \pi^{-4} - 25/9216 / (\text{mass}(6)) * \ln(6) * F^{-4} * \sin^2 \pi^{-2} * \pi^{-4} - 77/36864 / (\text{mass}(7)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin^2 \pi^{-2} * \pi^{-4} \\
& + 7/9216 / (\text{mass}(7)) * \ln(6) * F^{-4} * \pi^{-4} - 13/9216 / (\text{mass}(7)) * \ln(6) * F^{-4} * \sin^2 \pi^{-2} * \pi^{-4} + 107/2592 / (\text{mass}(8)) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \sin^2 \pi^{-2} * \pi^{-4} \\
& + 869/46656 / (\text{mass}(8)) * \ln(8) * F^{-4} * \pi^{-4} - 329/23328 / (\text{mass}(8)) * \ln(8) * F^{-4} * \sin^2 \pi^{-2} * \pi^{-4} + 5/2916 / (\text{mass}(8)) * \ln(8) * F^{-4} * \sin^4 \pi^{-4} * \pi^{-4}
\end{aligned}$$

$$\begin{aligned}
& + \text{mud}^3 * \text{mpp}^2 * (- 1/1536 / (\text{mass}(3)) * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin^2 \pi^{-2} * \pi^{-4} \\
& + 1/62208 / (\text{mass}(3)) * \ln(3) * F^{-4} * \pi^{-4} + 161/373248 / (\text{mass}(3)) * \ln(3) * F^{-4} * \sin^2 \pi^{-2} * \pi^{-4} - 5/23328 / (\text{mass}(3)) * \ln(3) * F^{-4} * \sin^4 \pi^{-4} * \pi^{-4} \\
& + 7168/27 / (\text{mass}(3) - \text{mass}(8)) * F^{-4} * L8r^2 + 14336/9 / (\text{mass}(3) - \text{mass}(8)) * F^{-4} * L7r * L8r + 7168/3 / (\text{mass}(3) - \text{mass}(8)) * F^{-4} * L7r^2 \\
& - 131072/81 / (\text{mass}(3) - \text{mass}(8)) * F^{-4} * \sin^2 \pi^{-2} * L8r^2 - 262144/27 / (\text{mass}(3) - \text{mass}(8)) * F^{-4} * \sin^2 \pi^{-2} * L7r * L8r - 131072/9 / (\text{mass}(3) - \text{mass}(8)) * F^{-4} * \sin^2 \pi^{-2} * L7r^2 \\
& + 131072/81 / (\text{mass}(3) - \text{mass}(8)) * F^{-4} * \sin^4 \pi^{-4} * L8r^2 + 262144/27 / (\text{mass}(3) - \text{mass}(8)) * F^{-4} * \sin^4 \pi^{-4} * L7r * L8r + 131072/9 / (\text{mass}(3) - \text{mass}(8)) * F^{-4} * \sin^4 \pi^{-4} * L7r^2 \\
& + 1/20736 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(3) * F^{-4} * \pi^{-4} - 1/3888 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(3) * F^{-4} * \sin^2 \pi^{-2} * \pi^{-4} \\
& + 1/3888 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(3) * F^{-4} * \pi^{-4} - 1/20736 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \pi^{-4} + 1/3888 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \sin^2 \pi^{-2} * \pi^{-4} \\
& - 1/3888 / (\text{mass}(3) - \text{mass}(8)) * \ln(1) * \ln(8) * F^{-4} * \sin^4 \pi^{-4} * \pi^{-4} + 16/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin^2 \pi^{-2} * L8r * \pi^{-2} \\
& + 16/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin^2 \pi^{-2} * L7r * \pi^{-2} - 28/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * L8r * \pi^{-2} \\
& - 28/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * L7r * \pi^{-2} + 64/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^2 \pi^{-2} * L8r * \pi^{-2} \\
& + 64/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^2 \pi^{-2} * L7r * \pi^{-2} + 448/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(3) * F^{-4} * \sin^4 \pi^{-4} * L8r * \pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2 + 448/81/(mass(3) - mass(8))*ln(3)*F^{-4}*sinx^4*L7r*pi^{-2} - 640/243/(mass(3) \\
& - mass(8))*ln(3)*F^{-4}*sinx^6*L8r*pi^{-2} - 640/81/(mass(3) - mass(8))*ln(3)*F^{-4} \\
& *sinx^6*L7r*pi^{-2} - 1/2592/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sqrt3^{-1} \\
& *sinx*cosx*pi^{-4} + 5/41472/(mass(3) - mass(8))*ln(3)^2*F^{-4}*pi^{-4} + \\
& 1/11664/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sinx^2*pi^{-4} - 13/11664/(mass(3) - \\
& mass(8))*ln(3)^2*F^{-4}*sinx^4*pi^{-4} + 1/2916/(mass(3) - mass(8))*ln(3)^2*F^{-4} \\
& *sinx^6*pi^{-4} + 1/1458/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sinx^8*pi^{-4} + \\
& 1/1944/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - \\
& 5/7776/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} \\
& - 1/648/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx^5*cosx*pi^{-4} \\
& + 1/6912/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*pi^{-4} - 5/7776/(mass(3) - \\
& mass(8))*ln(3)*ln(4)*F^{-4}*sinx^2*pi^{-4} - 5/2592/(mass(3) - mass(8))*ln(4)*F^{-4} \\
& *sinx^4*pi^{-4} + 5/1944/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sinx^6*pi^{-4} \\
& - 13/7776/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} \\
& + 5/7776/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} \\
& + 1/648/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sqrt3^{-1}*sinx^5*cosx*pi^{-4} \\
& + 5/10368/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*pi^{-4} - 5/7776/(mass(3) - \\
& mass(8))*ln(3)*ln(6)*F^{-4}*sinx^2*pi^{-4} - 5/2592/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4} \\
& *sinx^4*pi^{-4} + 5/1944/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sinx^6*pi^{-4} \\
& + 13/62208/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*pi^{-4} - 7/5832/(mass(3) - \\
& mass(8))*ln(3)*ln(8)*F^{-4}*sinx^2*pi^{-4} - 1/5832/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4} \\
& *sinx^4*pi^{-4} + 2/729/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*sinx^6*pi^{-4} \\
& - 1/729/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*sinx^8*pi^{-4} - 64/27/(mass(3) \\
& - mass(8))*ln(4)*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} - 64/9/(mass(3) - \\
& mass(8))*ln(4)*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*pi^{-2} + 128/27/(mass(3) - \\
& mass(8))*ln(4)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*L8r*pi^{-2} + 128/9/(mass(3) \\
& - mass(8))*ln(4)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*L7r*pi^{-2} - 4/27/(mass(3) \\
& - mass(8))*ln(4)*F^{-4}*L8r*pi^{-2} - 4/9/(mass(3) - mass(8))*ln(4)*F^{-4} \\
& *L7r*pi^{-2} + 256/81/(mass(3) - mass(8))*ln(4)*F^{-4}*sinx^2*L8r*pi^{-2} + \\
& 256/27/(mass(3) - mass(8))*ln(4)*F^{-4}*sinx^2*L7r*pi^{-2} - 256/81/(mass(3) - \\
& mass(8))*ln(4)*F^{-4}*sinx^4*L8r*pi^{-2} - 256/27/(mass(3) - mass(8))*ln(4)*F^{-4} \\
& *sinx^4*L7r*pi^{-2} + 19/6912/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sqrt3^{-1} \\
& *sinx*cosx*pi^{-4} - 1/216/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sqrt3^{-1} \\
& *sinx^3*cosx*pi^{-4} - 1/9216/(mass(3) - mass(8))*ln(4)^2*F^{-4}*pi^{-4} - \\
& 55/41472/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sinx^2*pi^{-4} + 1/648/(mass(3) - \\
& mass(8))*ln(4)^2*F^{-4}*sinx^4*pi^{-4} - 1/1152/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4} \\
& *sqrt3^{-1}*sinx*cosx*pi^{-4} + 7/13824/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4} \\
& *pi^{-4} - 73/20736/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*sinx^2*pi^{-4} + \\
& 1/324/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*sinx^4*pi^{-4} + 5/1944/(mass(3) \\
& - mass(8))*ln(4)*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 43/7776/(mass(3) - \\
& mass(8))*ln(4)*ln(8)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} + 1/648/(mass(3) - \\
& mass(8))*ln(4)*ln(8)*F^{-4}*sqrt3^{-1}*sinx^5*cosx*pi^{-4} + 1/20736/(mass(3) - \\
& mass(8))*ln(4)*ln(8)*F^{-4}*pi^{-4} - 1/288/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4} \\
& *sinx^2*pi^{-4} + 47/7776/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sinx^4*pi^{-4} \\
& - 5/1944/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sinx^6*pi^{-4} + 64/27/(mass(3) \\
& - mass(8))*ln(6)*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} + 64/9/(mass(3) -
\end{aligned}$$

$$\begin{aligned}
& \text{mass}(8) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * L7r * \pi^{-2} - 128/27 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * L8r * \pi^{-2} - 128/9 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \sin x^3 * \cos x * L7r * \pi^{-2} - 8/9 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(6) * F^{-4} * L8r * \pi^{-2} - 8/3 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \\
& L7r * \pi^{-2} + 256/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sin x^2 * L8r * \pi^{-2} + \\
& 256/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sin x^2 * L7r * \pi^{-2} - 256/81 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6) * F^{-4} * \sin x^4 * L8r * \pi^{-2} - 256/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \\
& \sin x^4 * L7r * \pi^{-2} - 13/6912 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \\
& \sin x * \cos x * \pi^{-4} + 1/216 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sqrt{3}^{-1} * \\
& \sin x^3 * \cos x * \pi^{-4} + 17/27648 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \pi^{-4} \\
& - 55/41472 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * F^{-4} * \sin x^2 * \pi^{-4} + 1/648 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(6) * F^{-4} * \sin x^4 * \pi^{-4} - 11/7776 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 43/7776 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x^3 * \cos x * \pi^{-4} - 1/648 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x^5 * \cos x * \pi^{-4} + 7/10368 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \\
& \pi^{-4} - 1/288 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin x^2 * \pi^{-4} + \\
& 47/7776 / (\text{mass}(3) - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin x^4 * \pi^{-4} - 5/1944 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(6) * \ln(8) * F^{-4} * \sin x^6 * \pi^{-4} - 16/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x * \cos x * L8r * \pi^{-2} - 16/9 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \\
& \sin x * \cos x * L7r * \pi^{-2} - 28/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * L8r * \pi^{-2} \\
& - 28/27 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * L7r * \pi^{-2} + 832/243 / (\text{mass}(3) - \\
& \text{mass}(8)) * \ln(8) * F^{-4} * \sin x^2 * L8r * \pi^{-2} + 832/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \\
& \sin x^2 * L7r * \pi^{-2} - 1472/243 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin x^4 * L8r * \pi^{-2} \\
& - 1472/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin x^4 * L7r * \pi^{-2} + 640/243 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(8) * F^{-4} * \sin x^6 * L8r * \pi^{-2} + 640/81 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \\
& \sin x^6 * L7r * \pi^{-2} + 1/2592 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sqrt{3}^{-1} * \\
& \sin x * \cos x * \pi^{-4} + 5/41472 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \pi^{-4} - \\
& 19/11664 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin x^2 * \pi^{-4} + 47/11664 / (\text{mass}(3) \\
& - \text{mass}(8)) * \ln(8) * F^{-4} * \sin x^4 * \pi^{-4} - 1/324 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \\
& \sin x^6 * \pi^{-4} + 1/1458 / (\text{mass}(3) - \text{mass}(8)) * \ln(8) * F^{-4} * \sin x^8 * \pi^{-4} + \\
& 89/73728 / (\text{mass}(4)) * \ln(4) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - 13/49152 / (\text{mass}(4)) * \ln(4) * F^{-4} * \\
& \pi^{-4} + 13/24576 / (\text{mass}(4)) * \ln(4) * F^{-4} * \sin x^2 * \pi^{-4} + 65/73728 / (\text{mass}(5)) * \ln(4) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - 13/49152 / (\text{mass}(5)) * \ln(4) * F^{-4} * \pi^{-4} + \\
& 13/24576 / (\text{mass}(5)) * \ln(4) * F^{-4} * \sin x^2 * \pi^{-4} - 5/24576 / (\text{mass}(6)) * \ln(6) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 49/147456 / (\text{mass}(6)) * \ln(6) * F^{-4} * \pi^{-4} + \\
& 13/24576 / (\text{mass}(6)) * \ln(6) * F^{-4} * \sin x^2 * \pi^{-4} - 13/24576 / (\text{mass}(7)) * \ln(6) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} + 17/147456 / (\text{mass}(7)) * \ln(6) * F^{-4} * \pi^{-4} + \\
& 13/24576 / (\text{mass}(7)) * \ln(6) * F^{-4} * \sin x^2 * \pi^{-4} + 5/1296 / (\text{mass}(8)) * \ln(8) * F^{-4} * \\
& \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} - 1895/746496 / (\text{mass}(8)) * \ln(8) * F^{-4} * \pi^{-4} + \\
& 329/93312 / (\text{mass}(8)) * \ln(8) * F^{-4} * \sin x^2 * \pi^{-4} + 5/23328 / (\text{mass}(8)) * \ln(8) * F^{-4} * \\
& \sin x^4 * \pi^{-4}) \\
& + \text{mud}^4 * (+ 11/20736 / (\text{mass}(3)) * \ln(3) * F^{-4} * \sqrt{3}^{-1} * \sin x * \cos x * \pi^{-4} \\
& - 125/995328 / (\text{mass}(3)) * \ln(3) * F^{-4} * \pi^{-4} - 5/23328 / (\text{mass}(3)) * \ln(3) * F^{-4} * \\
& \sin x^2 * \pi^{-4} + 5/23328 / (\text{mass}(3)) * \ln(3) * F^{-4} * \sin x^4 * \pi^{-4} + 1024/27 / (\text{mass}(3) \\
& - \text{mass}(8)) * F^{-4} * L8r^2 + 2048/9 / (\text{mass}(3) - \text{mass}(8)) * F^{-4} * L7r * L8r +
\end{aligned}$$

$$\begin{aligned}
& 1024/3/(mass(3) - mass(8))*F^{-4}*L7r^2 - 16384/81/(mass(3) - mass(8))*F^{-4}*sinx^2*L8r^2 - 32768/27/(mass(3) - mass(8))*F^{-4}*sinx^2*L7r*L8r - \\
& 16384/9/(mass(3) - mass(8))*F^{-4}*sinx^2*L7r^2 + 16384/81/(mass(3) - mass(8))*F^{-4}*sinx^4*L8r^2 + 32768/27/(mass(3) - mass(8))*F^{-4}*sinx^4*L7r*L8r \\
& + 16384/9/(mass(3) - mass(8))*F^{-4}*sinx^4*L7r^2 + 8/81/(mass(3) - mass(8))*ln(3)*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} + 8/27/(mass(3) - mass(8))*ln(3)*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*pi^{-2} - 4/81/(mass(3) - mass(8))*ln(3)*F^{-4}*L8r*pi^{-2} - 4/27/(mass(3) - mass(8))*ln(3)*F^{-4}*L7r*pi^{-2} + 128/243/(mass(3) - mass(8))*ln(3)*F^{-4}*sinx^4*L8r*pi^{-2} + 128/81/(mass(3) - mass(8))*ln(3)*F^{-4}*sinx^4*L7r*pi^{-2} - 128/243/(mass(3) - mass(8))*ln(3)*F^{-4}*sinx^6*L8r*pi^{-2} - 128/81/(mass(3) - mass(8))*ln(3)*F^{-4}*sinx^6*L7r*pi^{-2} - 1/15552/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} + 1/82944/(mass(3) - mass(8))*ln(3)^2*F^{-4}*pi^{-4} + 1/23328/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sinx^2*pi^{-4} - 1/23328/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sinx^4*pi^{-4} - 1/2916/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sinx^6*pi^{-4} + 1/2916/(mass(3) - mass(8))*ln(3)^2*F^{-4}*sinx^8*pi^{-4} - 1/7776/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} + 1/972/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} - 1/648/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sqrt3^{-1}*sinx^5*cosx*pi^{-4} + 1/62208/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*pi^{-4} - 1/1944/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sinx^4*pi^{-4} + 1/1944/(mass(3) - mass(8))*ln(3)*ln(4)*F^{-4}*sinx^6*pi^{-4} - 1/15552/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 1/972/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} + 1/648/(mass(3) - mass(8))*ln(6)*F^{-4}*sqrt3^{-1}*sinx^5*cosx*pi^{-4} + 5/62208/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*pi^{-4} - 1/1944/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sinx^4*pi^{-4} + 1/1944/(mass(3) - mass(8))*ln(3)*ln(6)*F^{-4}*sinx^6*pi^{-4} + 5/124416/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*pi^{-4} - 1/11664/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*sinx^2*pi^{-4} - 7/11664/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*sinx^4*pi^{-4} + 1/729/(mass(3) - mass(8))*ln(3)*ln(8)*F^{-4}*sinx^6*pi^{-4} - 1/1458/(mass(3) - mass(8))*ln(8)*F^{-4}*sinx^8*pi^{-4} - 16/27/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt3^{-1}*sinx*cosx*L8r*pi^{-2} - 16/9/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt3^{-1}*sinx*cosx*L7r*pi^{-2} + 32/27/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*L8r*pi^{-2} + 32/9/(mass(3) - mass(8))*ln(4)*F^{-4}*sqrt3^{-1}*sinx^3*cosx*L7r*pi^{-2} + 32/81/(mass(3) - mass(8))*ln(4)*F^{-4}*sinx^2*L8r*pi^{-2} + 32/27/(mass(3) - mass(8))*ln(4)*F^{-4}*sinx^2*L7r*pi^{-2} - 32/81/(mass(3) - mass(8))*ln(4)*F^{-4}*sinx^4*L8r*pi^{-2} - 32/27/(mass(3) - mass(8))*ln(4)*F^{-4}*sinx^4*L7r*pi^{-2} + 19/27648/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 1/864/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sqrt3^{-1}*sinx^3*cosx*pi^{-4} - 11/55296/(mass(3) - mass(8))*ln(4)^2*F^{-4}*pi^{-4} + 41/82944/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sinx^2*pi^{-4} - 1/2592/(mass(3) - mass(8))*ln(4)^2*F^{-4}*sinx^4*pi^{-4} - 1/4608/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} + 11/27648/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*pi^{-4} - 73/41472/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*sinx^2*pi^{-4} + 1/648/(mass(3) - mass(8))*ln(4)*ln(6)*F^{-4}*sinx^4*pi^{-4} + 7/7776/(mass(3) - mass(8))*ln(4)*ln(8)*F^{-4}*sqrt3^{-1}*sinx*cosx*pi^{-4} - 5/1944/(mass(3) -
\end{aligned}$$

$$\begin{aligned}
& \text{mass}(8) \cdot \ln(4) \cdot \ln(8) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^3 \cos^* \pi^{-4} + 1/648 / (\text{mass}(3) - \\
& \text{mass}(8)) \cdot \ln(4) \cdot \ln(8) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^5 \cos^* \pi^{-4} - 1/62208 / (\text{mass}(3) - \\
& \text{mass}(8)) \cdot \ln(4) \cdot \ln(8) \cdot F^{-4} \cdot \pi^{-4} - 1/1944 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(4) \cdot \ln(8) \cdot F^{-4} \cdot \sin^2 \pi^{-4} + 1/972 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(4) \cdot \ln(8) \cdot F^{-4} \cdot \sin^4 \pi^{-4} - \\
& 1/1944 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(4) \cdot \ln(8) \cdot F^{-4} \cdot \sin^6 \pi^{-4} + 16/27 / (\text{mass}(3) \\
& - \text{mass}(8)) \cdot \ln(6) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^* \cos^* L8r \cdot \pi^{-2} + 16/9 / (\text{mass}(3) - \\
& \text{mass}(8)) \cdot \ln(6) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^* \cos^* L7r \cdot \pi^{-2} - 32/27 / (\text{mass}(3) - \\
& \text{mass}(8)) \cdot \ln(6) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^3 \cos^* L8r \cdot \pi^{-2} - 32/9 / (\text{mass}(3) - \\
& \text{mass}(8)) \cdot \ln(6) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^3 \cos^* L7r \cdot \pi^{-2} - 4/27 / (\text{mass}(3) - \\
& \text{mass}(8)) \cdot \ln(6) \cdot F^{-4} \cdot L8r \cdot \pi^{-2} - 4/9 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(6) \cdot F^{-4} \cdot L7r \cdot \pi^{-2} \\
& + 32/81 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(6) \cdot F^{-4} \cdot \sin^2 \cdot L8r \cdot \pi^{-2} + 32/27 / (\text{mass}(3) \\
& - \text{mass}(8)) \cdot \ln(6) \cdot F^{-4} \cdot \sin^2 \cdot L7r \cdot \pi^{-2} - 32/81 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(6) \cdot F^{-4} \cdot \sin^4 \cdot L8r \cdot \pi^{-2} - 32/27 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(6) \cdot F^{-4} \cdot \sin^4 \cdot L7r \cdot \pi^{-2} \\
& - 13/27648 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(6) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^* \cos^* \pi^{-4} \\
& + 1/864 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(6) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^3 \cos^* \pi^{-4} - \\
& 1/18432 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(6) \cdot F^{-4} \cdot \pi^{-4} + 41/82944 / (\text{mass}(3) - \\
& \text{mass}(8)) \cdot \ln(6) \cdot F^{-4} \cdot \sin^2 \pi^{-4} - 1/2592 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(6) \cdot F^{-4} \cdot \sin^4 \pi^{-4} - 11/15552 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(6) \cdot \ln(8) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^* \cos^* \pi^{-4} + 5/1944 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(6) \cdot \ln(8) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^3 \cos^* \pi^{-4} - 1/648 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(6) \cdot \ln(8) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^5 \cos^* \pi^{-4} + 7/62208 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(6) \cdot \ln(8) \cdot F^{-4} \cdot \pi^{-4} - 1/1944 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(6) \cdot \ln(8) \cdot F^{-4} \cdot \sin^2 \pi^{-4} + 1/972 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(6) \cdot \ln(8) \cdot F^{-4} \cdot \sin^4 \pi^{-4} - 1/1944 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(6) \cdot \ln(8) \cdot F^{-4} \cdot \sin^6 \pi^{-4} - 8/81 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^* \cos^* L8r \cdot \pi^{-2} - 8/27 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^* \cos^* L7r \cdot \pi^{-2} - 4/81 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot L8r \cdot \pi^{-2} - 4/27 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot L7r \cdot \pi^{-2} + 128/243 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \sin^2 \cdot L8r \cdot \pi^{-2} + 128/81 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \sin^2 \cdot L7r \cdot \pi^{-2} - 256/243 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \sin^4 \cdot L8r \cdot \pi^{-2} - 256/81 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \sin^4 \cdot L7r \cdot \pi^{-2} + 128/243 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \sin^6 \cdot L8r \cdot \pi^{-2} + 128/81 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \sin^6 \cdot L7r \cdot \pi^{-2} + 1/15552 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^* \cos^* \pi^{-4} + 1/82944 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \pi^{-4} - 7/23328 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \sin^2 \pi^{-4} + 23/23328 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \sin^4 \pi^{-4} - 1/972 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \sin^6 \pi^{-4} + 1/2916 / (\text{mass}(3) - \text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \sin^8 \pi^{-4} + 25/73728 / (\text{mass}(4)) \cdot \ln(4) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^* \cos^* \pi^{-4} - 25/147456 / (\text{mass}(4)) \cdot \ln(4) \cdot F^{-4} \cdot \pi^{-4} + 25/73728 / (\text{mass}(4)) \cdot \ln(4) \cdot F^{-4} \cdot \sin^2 \pi^{-4} + 13/73728 / (\text{mass}(5)) \cdot \ln(4) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^* \cos^* \pi^{-4} - 13/147456 / (\text{mass}(5)) \cdot \ln(4) \cdot F^{-4} \cdot \pi^{-4} + 13/73728 / (\text{mass}(5)) \cdot \ln(4) \cdot F^{-4} \cdot \sin^2 \pi^{-4} - 125/24576 / (\text{mass}(6)) \cdot \ln(6) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^* \cos^* \pi^{-4} - 37/16384 / (\text{mass}(6)) \cdot \ln(6) \cdot F^{-4} \cdot \pi^{-4} + 25/73728 / (\text{mass}(6)) \cdot \ln(6) \cdot F^{-4} \cdot \sin^2 \pi^{-4} - 1/24576 / (\text{mass}(7)) \cdot \ln(6) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^* \cos^* \pi^{-4} - 1/147456 / (\text{mass}(7)) \cdot \ln(6) \cdot F^{-4} \cdot \pi^{-4} + 13/73728 / (\text{mass}(7)) \cdot \ln(6) \cdot F^{-4} \cdot \sin^2 \pi^{-4} - 647/62208 / (\text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \sqrt{3}^{-1} \cdot \sin^* \cos^* \pi^{-4} - 12061/2985984 / (\text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \pi^{-4} + 329/186624 / (\text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \sin^2 \pi^{-4} - 5/23328 / (\text{mass}(8)) \cdot \ln(8) \cdot F^{-4} \cdot \pi^{-4}
\end{aligned}$$

$4 \cdot \sin^4(\pi/4)$);

two-loop(EM corrections only):

Charged pion: Mass611 =

$+ \text{mpp2}^{-1} \cdot \text{mkp2}^3 \cdot (-5/384 \cdot \text{mL}(4,1,4) \cdot F^{-2} \cdot e^{2\pi/4})$

$+ \text{mkp2} \cdot (+4/3 \cdot \text{Hb}(\text{eps},1,4,4, \text{pl ext. pl ext.}) \cdot F^{-2} \cdot e^2)$

$+ \text{mkp2}^2 \cdot (-10/9 \cdot F^{-6} \cdot C_0 \cdot e^{2L_8 r \pi/2} + 8/9 \cdot F^{-6} \cdot C_0 \cdot e^{2L_7 r \pi/2}$
 $- 28/9 \cdot F^{-6} \cdot C_0 \cdot e^{2L_6 r \pi/2} + 19/27 \cdot F^{-6} \cdot C_0 \cdot e^{2L_5 r \pi/2} + 14/9 \cdot F^{-6}$
 $\cdot C_0 \cdot e^{2L_4 r \pi/2} + 1024 \cdot F^{-6} \cdot C_0 \cdot e^{2L_4 r L_6 r} - 384 \cdot F^{-6} \cdot C_0 \cdot \text{CC21} \cdot e^2$
 $- 128 \cdot F^{-6} \cdot C_0 \cdot \text{CC20} \cdot e^2 - 5/384 \cdot F^{-2} \cdot e^{2\pi/4} - 1/768 \cdot F^{-2} \cdot e^{2\pi/2}$
 $- 128 \cdot F^{-2} \cdot e^{2L_4 r} \cdot K_{8r} - 5/768 \cdot \ln(1) \cdot F^{-2} \cdot e^{2\pi/4} + 1/1152 \cdot \ln(4) \cdot F^{-6}$
 $\cdot C_0 \cdot e^{2\pi/4} + 3/2 \cdot \ln(4) \cdot F^{-6} \cdot C_0 \cdot e^{2L_5 r \pi/2} + 4 \cdot \ln(4) \cdot F^{-6}$
 $\cdot C_0 \cdot e^{2L_4 r \pi/2} + 13/768 \cdot \ln(4) \cdot F^{-2} \cdot e^{2\pi/4} + 1/2304 \cdot \ln(4) \cdot F^{-2}$
 $\cdot e^{2\pi/2} - 3/4 \cdot \ln(4) \cdot F^{-2} \cdot e^{2K_{11r} \pi/2} - 3/4 \cdot \ln(4) \cdot F^{-2} \cdot e^{2K_{10r} \pi/2}$
 $- \ln(4) \cdot F^{-2} \cdot e^{2K_{8r} \pi/2} + 7/24 \cdot \ln(4) \cdot F^{-2} \cdot e^{2K_{6r} \pi/2} + 1/24 \cdot \ln(4) \cdot F^{-2}$
 $\cdot e^{2K_{5r} \pi/2} + 1/2 \cdot \ln(4) \cdot F^{-2} \cdot e^{2K_{2r} \pi/2} + 1/256 \cdot \ln(4)^2 \cdot F^{-6}$
 $\cdot C_0 \cdot e^{2\pi/4} - 5/512 \cdot \ln(4)^2 \cdot F^{-2} \cdot e^{2\pi/4} + 1/384 \cdot \ln(4)^3 \cdot F^{-2}$
 $\cdot e^{2\pi/4} - 1/128 \cdot \ln(4)^2 \cdot C \cdot F^{-2} \cdot e^{2\pi/4} - 1/256 \cdot \ln(4) \cdot \ln(6) \cdot F^{-6}$
 $\cdot C_0 \cdot e^{2\pi/4} + 1/32 \cdot \ln(4) \cdot C \cdot F^{-2} \cdot e^{2\pi/4} + 1/128 \cdot \ln(4) \cdot C^2 \cdot F^{-2}$
 $\cdot e^{2\pi/4} + 1/1152 \cdot \ln(6) \cdot F^{-6} \cdot C_0 \cdot e^{2\pi/4} + 2 \cdot \ln(6) \cdot F^{-6} \cdot C_0 \cdot e^{2L_8 r \pi/2}$
 $- 2 + 4 \cdot \ln(6) \cdot F^{-6} \cdot C_0 \cdot e^{2L_6 r \pi/2} - 1/2 \cdot \ln(6) \cdot F^{-6} \cdot C_0 \cdot e^{2L_5 r \pi/2}$
 $- 2 \cdot \ln(6) \cdot F^{-6} \cdot C_0 \cdot e^{2L_4 r \pi/2} - 1/4 \cdot \ln(6) \cdot F^{-2} \cdot e^{2K_{11r} \pi/2}$
 $- 1/4 \cdot \ln(6) \cdot F^{-2} \cdot e^{2K_{10r} \pi/2} - 1/2 \cdot \ln(6) \cdot F^{-2} \cdot e^{2K_{8r} \pi/2}$
 $+ 5/24 \cdot \ln(6) \cdot F^{-2} \cdot e^{2K_{6r} \pi/2} - 1/24 \cdot \ln(6) \cdot F^{-2} \cdot e^{2K_{5r} \pi/2} +$
 $1/2 \cdot \ln(6) \cdot F^{-2} \cdot e^{2K_{2r} \pi/2} + 1/288 \cdot \ln(6) \cdot \ln(8) \cdot F^{-6} \cdot C_0 \cdot e^{2\pi/4} -$
 $13/2592 \cdot \ln(8) \cdot F^{-6} \cdot C_0 \cdot e^{2\pi/4} + 8/9 \cdot \ln(8) \cdot F^{-6} \cdot C_0 \cdot e^{2L_8 r \pi/2} -$
 $8/3 \cdot \ln(8) \cdot F^{-6} \cdot C_0 \cdot e^{2L_7 r \pi/2} + 16/3 \cdot \ln(8) \cdot F^{-6} \cdot C_0 \cdot e^{2L_6 r \pi/2}$
 $- 8/9 \cdot \ln(8) \cdot F^{-6} \cdot C_0 \cdot e^{2L_5 r \pi/2} - 28/9 \cdot \ln(8) \cdot F^{-6} \cdot C_0 \cdot e^{2L_4 r \pi/2}$
 $- 4/9 \cdot \ln(8) \cdot F^{-2} \cdot e^{2K_{8r} \pi/2} + 4/27 \cdot \ln(8) \cdot F^{-2} \cdot e^{2K_{6r} \pi/2}$
 $+ 4/9 \cdot \ln(8) \cdot F^{-2} \cdot e^{2K_{2r} \pi/2} - 1/576 \cdot \ln(8)^2 \cdot F^{-6} \cdot C_0 \cdot e^{2\pi/4} +$
 $11/384 \cdot \text{mL}(4,1,4) \cdot F^{-2} \cdot e^{2\pi/4} + 39/1024 \cdot \text{mL}(4,1,5) \cdot F^{-6} \cdot C_0 \cdot e^{2\pi/4} -$
 $1/2304 \cdot \text{mL}(6,1,7) \cdot F^{-6} \cdot C_0 \cdot e^{2\pi/4} - 1/648 \cdot \text{mL}(8,1,8) \cdot F^{-6} \cdot C_0 \cdot e^{2\pi/4}$
 $+ 4 \cdot C \cdot F^{-6} \cdot C_0 \cdot e^{2L_8 r \pi/2} + 8 \cdot C \cdot F^{-6} \cdot C_0 \cdot e^{2L_6 r \pi/2} - 4 \cdot C \cdot F^{-6}$
 $\cdot C_0 \cdot e^{2L_5 r \pi/2} - 8 \cdot C \cdot F^{-6} \cdot C_0 \cdot e^{2L_4 r \pi/2} - 13/768 \cdot C \cdot F^{-2} \cdot e^{2\pi/4}$
 $- 1/2304 \cdot C \cdot F^{-2} \cdot e^{2\pi/2} + C \cdot F^{-2} \cdot e^{2K_{11r} \pi/2} + C \cdot F^{-2} \cdot e^{2K_{10r} \pi/2}$
 $- 2 + 22/9 \cdot C \cdot F^{-2} \cdot e^{2K_{8r} \pi/2} - 35/54 \cdot C \cdot F^{-2} \cdot e^{2K_{6r} \pi/2} - 13/9 \cdot C \cdot F^{-2}$
 $\cdot e^{2K_{2r} \pi/2} - 1/1152 \cdot C^2 \cdot F^{-6} \cdot C_0 \cdot e^{2\pi/4} - 11/512 \cdot C^2 \cdot F^{-2}$
 $\cdot e^{2\pi/4} - 1/384 \cdot C^3 \cdot F^{-2} \cdot e^{2\pi/4} - 4/3 \cdot \text{Tb}(\text{eps},1,4,4, \text{pl ext. pl ext.}) \cdot F^{-2}$
 $\cdot e^2)$

$+ \text{mpp2} \cdot (-1/16 \cdot \ln(1) \cdot \text{mm}(1) \cdot \text{mm}(2) \cdot F^{-6} \cdot C_0 \cdot e^{2\pi/4} + 1/64 \cdot \ln(1) \cdot \text{mm}(1) \cdot \text{mm}(4) \cdot F^{-6}$
 $\cdot C_0 \cdot e^{2\pi/4} - 1/64 \cdot \ln(1) \cdot \text{mm}(1) \cdot \text{mm}(5) \cdot F^{-6} \cdot C_0 \cdot e^{2\pi/4} + 1/512 \cdot \ln(1) \cdot \text{mm}(1) \cdot \text{mm}(7) \cdot F^{-6}$
 $\cdot C_0 \cdot e^{2\pi/4} + 11/1024 \cdot \ln(3) \cdot \text{mm}(3) \cdot \text{mm}(4) \cdot F^{-6} \cdot C_0 \cdot e^{2\pi/4} -$
 $9/1024 \cdot \ln(3) \cdot \text{mm}(3) \cdot \text{mm}(7) \cdot F^{-6} \cdot C_0 \cdot e^{2\pi/4} - 1/64 \cdot \ln(4) \cdot \text{mm}(4) \cdot \text{mm}(5) \cdot F^{-6}$
 $\cdot C_0 \cdot e^{2\pi/4} - 1/1536 \cdot \ln(4) \cdot \text{mm}(4) \cdot \text{mm}(7) \cdot F^{-6} \cdot C_0 \cdot e^{2\pi/4} - 1/192 \cdot \ln(4) \cdot \text{mm}(4) \cdot \text{mm}(8) \cdot F^{-6}$
 $\cdot C_0 \cdot e^{2\pi/4})$

$$\begin{aligned}
& 6^*C0^*e^2*\pi^4 - 1/512*\ln(6)*\text{mm}(1)*\text{mm}(6)*F^{-6}C0^*e^2*\pi^4 + 1/512*\ln(6)*\text{mm}(6)*\text{mm}(7)*F^{-6}C0^*e^2*\pi^4 - 1/512*\ln(7)*\text{mm}(3)*\text{mm}(7)*F^{-6}C0^*e^2*\pi^4 + 1/512*\ln(7)*\text{mm}(4)*\text{mm}(7)*F^{-6}C0^*e^2*\pi^4 - 1/192*\ln(7)*\text{mm}(7)*\text{mm}(8)*F^{-6}C0^*e^2*\pi^4 - 3/1024*\ln(8)*\text{mm}(4)*\text{mm}(8)*F^{-6}C0^*e^2*\pi^4 \\
& + 3/1024*\ln(8)*\text{mm}(7)*\text{mm}(8)*F^{-6}C0^*e^2*\pi^4 - 1/128*\text{mL}(4,3,7)*\text{mm}(3)*\text{mm}(4)*F^{-6}C0^*e^2*\pi^4 + 13/64*\text{mm}(1)*\text{mm}(2)*F^{-6}C0^*e^2*\pi^4 - 13/256*\text{mm}(1)*\text{mm}(4)*F^{-6}C0^*e^2*\pi^4 + 13/256*\text{mm}(1)*\text{mm}(5)*F^{-6}C0^*e^2*\pi^4 + 13/2048*\text{mm}(1)*\text{mm}(6)*F^{-6}C0^*e^2*\pi^4 - 13/2048*\text{mm}(1)*\text{mm}(7)*F^{-6}C0^*e^2*\pi^4 - 143/4096*\text{mm}(3)*\text{mm}(4)*F^{-6}C0^*e^2*\pi^4 + 143/4096*\text{mm}(3)*\text{mm}(7)*F^{-6}C0^*e^2*\pi^4 + 13/256*\text{mm}(4)*\text{mm}(5)*F^{-6}C0^*e^2*\pi^4 - 13/3072*\text{mm}(4)*\text{mm}(7)*F^{-6}C0^*e^2*\pi^4 + 325/12288*\text{mm}(4)*\text{mm}(8)*F^{-6}C0^*e^2*\pi^4 - 13/2048*\text{mm}(6)*\text{mm}(7)*F^{-6}C0^*e^2*\pi^4 + 91/12288*\text{mm}(7)*\text{mm}(8)*F^{-6}C0^*e^2*\pi^4 - 16*\text{HH1b}(1,1,2,\text{p1ext.p1ext})*F^{-6}C0^*e^2 - 4*\text{HH1b}(1,3,3,\text{p1ext.p1ext})*F^{-6}C0^*e^2 - 4*\text{HH1b}(1,4,5,\text{p1ext.p1ext})*F^{-6}C0^*e^2 - 2*\text{HH1b}(3,4,7,\text{p1ext.p1ext})*F^{-6}C0^*e^2 - 4*\text{HH1b}(4,1,5,\text{p1ext.p1ext})*F^{-6}C0^*e^2 - 4*\text{HH1b}(4,3,7,\text{p1ext.p1ext})*F^{-6}C0^*e^2 - 2*\text{HH1b}(4,7,8,\text{p1ext.p1ext})*F^{-6}C0^*e^2 - 2*\text{HH1b}(7,4,8,\text{p1ext.p1ext})*F^{-6}C0^*e^2 + 8/3*\text{Hb}(\text{eps},1,1,1,\text{p1ext.p1ext})*F^{-2}e^2) \\
& + \text{mpp2*mkp2} * (- 1397/110592*F^{-6}C0^*e^2*\pi^4 + 67/18432*F^{-6}C0^*e^2*\pi^2 - 16/9*F^{-6}C0^*e^2*L7r*\pi^2 - 106/9*F^{-6}C0^*e^2*L6r*\pi^2 - 8/27*F^{-6}C0^*e^2*L5r*\pi^2 + 1024*F^{-6}C0^*e^2*L5r*L6r + 53/9*F^{-6}C0^*e^2*L4r*\pi^2 + 1024*F^{-6}C0^*e^2*L4r*L8r + 4096*F^{-6}C0^*e^2*L4r*L6r - 512*F^{-6}C0^*e^2*L4r*L5r - 1536*F^{-6}C0^*e^2*L4r^2 - 17/36*F^{-6}C0^*e^2*L3r*\pi^2 - 5/3*F^{-6}C0^*e^2*L2r*\pi^2 - 256*F^{-6}C0^*CC32*e^2 - 1536*F^{-6}C0^*CC21*e^2 - 256*F^{-6}C0^*CC20*e^2 + 128*F^{-6}C0^*CC16*e^2 + 64*F^{-6}C0^*CC15*e^2 - 167/18432*F^{-2}e^2*\pi^4 - 5/3456*F^{-2}e^2*\pi^2 - 1/81*F^{-2}e^2*K10r*\pi^2 - 1/81*F^{-2}e^2*K9r*\pi^2 - 1/27*F^{-2}e^2*K8r*\pi^2 - 1/27*F^{-2}e^2*K7r*\pi^2 + 1/54*F^{-2}e^2*K6r*\pi^2 + 1/54*F^{-2}e^2*K5r*\pi^2 + 1/108*F^{-2}e^2*K4r*\pi^2 - 1/54*F^{-2}e^2*K3r*\pi^2 + 1/27*F^{-2}e^2*K2r*\pi^2 + 1/27*F^{-2}e^2*K1r*\pi^2 + 2*F^{-2}e^2*L6r*\pi^2 - 640/9*F^{-2}e^2*L6r*K6r - 640/9*F^{-2}e^2*L6r*K5r - 256/3*F^{-2}e^2*L6r*K2r - 256/3*F^{-2}e^2*L6r*K1r - 64*F^{-2}e^2*L5r*K8r - F^{-2}e^2*L4r*\pi^2 - 128*F^{-2}e^2*L4r*K11r - 1472/9*F^{-2}e^2*L4r*K10r - 320/9*F^{-2}e^2*L4r*K9r - 512/3*F^{-2}e^2*L4r*K8r - 128/3*F^{-2}e^2*L4r*K7r + 640/9*F^{-2}e^2*L4r*K6r + 640/9*F^{-2}e^2*L4r*K5r + 256/3*F^{-2}e^2*L4r*K2r + 256/3*F^{-2}e^2*L4r*K1r + 281/13824*\ln(1)*F^{-6}C0^*e^2*\pi^4 - 8*\ln(1)*F^{-6}C0^*e^2*L6r*\pi^2 + 12*\ln(1)*F^{-6}C0^*e^2*L4r*\pi^2 + 7/512*\ln(1)*F^{-2}e^2*\pi^4 + 1/2304*\ln(1)*F^{-2}e^2*\pi^2 - \ln(1)*F^{-2}e^2*K8r*\pi^2 - 6*\ln(1)*F^{-2}e^2*L6r*\pi^2 + 3*\ln(1)*F^{-2}e^2*L4r*\pi^2 - 1/512*\ln(1)^2*F^{-6}C0^*e^2*\pi^4 - 5/576*\ln(1)^2*F^{-2}e^2*\pi^4 + 1/384*\ln(1)^2*\ln(4)*F^{-2}e^2*\pi^4 - 1/384*\ln(1)^2*C*F^{-2}e^2*\pi^4 - 1/512*\ln(1)*\ln(4)*F^{-6}C0^*e^2*\pi^4 + 1/384*\ln(1)*\ln(4)*F^{-2}e^2*\pi^4 + 1/384*\ln(1)*\ln(4)^2*F^{-2}e^2*\pi^4 - 1/96*\ln(1)*\ln(4)*C*F^{-2}e^2*\pi^4 - 1/512*\ln(1)*\ln(6)*F^{-6}C0^*e^2*\pi^4 - 1/1024*\ln(1)*\ln(7)*F^{-6}C0^*e^2*\pi^4 + 1/288*\ln(1)*\ln(8)*F^{-6}C0^*e^2*\pi^4 + 1/384*\ln(1)*\ln(8)*F^{-2}e^2*\pi^4 + 17/1152*\ln(1)*C*F^{-2}e^2*\pi^4 + 1/128*\ln(1)*C^2*F^{-2}e^2*\pi^4 + 19/1024*\ln(3)*F^{-6}C0^*e^2*\pi^4 - 8*\ln(3)*F^{-6}C0^*e^2*L6r*\pi^2 +
\end{aligned}$$

$$\begin{aligned}
& 6*\ln(3)*F^{-6}*C_0*e^{2*L_4r*\pi^{-2}} - 1/128*\ln(3)*\ln(4)*F^{-6}*C_0*e^{2*\pi^{-4}} + \\
& 1/512*\ln(3)*\ln(6)*F^{-6}*C_0*e^{2*\pi^{-4}} - 3/1024*\ln(3)*\ln(7)*F^{-6}*C_0*e^{2*\pi^{-4}} + \\
& 1/288*\ln(3)*\ln(8)*F^{-6}*C_0*e^{2*\pi^{-4}} - 139/9216*\ln(4)*F^{-6}*C_0*e^{2*\pi^{-4}} + \\
& 2*\ln(4)*F^{-6}*C_0*e^{2*L_8r*\pi^{-2}} + 2*\ln(4)*F^{-6}*C_0*e^{2*L_6r*\pi^{-2}} + \\
& 1/2*\ln(4)*F^{-6}*C_0*e^{2*L_5r*\pi^{-2}} + \ln(4)*F^{-6}*C_0*e^{2*L_4r*\pi^{-2}} - \\
& 19/768*\ln(4)*F^{-2}*e^{2*\pi^{-4}} + 1/2304*\ln(4)*F^{-2}*e^{2*\pi^{-2}} - 3/4*\ln(4)*F^{-2}*e^{2*K_{11}r*\pi^{-2}} - \\
& 3/4*\ln(4)*F^{-2}*e^{2*K_{10}r*\pi^{-2}} - 3/4*\ln(4)*F^{-2}*e^{2*K_{8}r*\pi^{-2}} + 7/24*\ln(4)*F^{-2}*e^{2*K_{6}r*\pi^{-2}} + \\
& 1/24*\ln(4)*F^{-2}*e^{2*K_{5}r*\pi^{-2}} + 1/2*\ln(4)*F^{-2}*e^{2*K_{2}r*\pi^{-2}} + 3/1024*\ln(4)^2*F^{-6}*C_0*e^{2*\pi^{-4}} + \\
& 7/1536*\ln(4)^2*F^{-2}*e^{2*\pi^{-4}} - 1/384*\ln(4)^2*C_0*F^{-2}*e^{2*\pi^{-4}} + 1/64*\ln(4)*\ln(5)*F^{-6}*C_0*e^{2*\pi^{-4}} + \\
& 1/512*\ln(4)*\ln(6)*F^{-6}*C_0*e^{2*\pi^{-4}} + 17/3072*\ln(4)*\ln(7)*F^{-6}*C_0*e^{2*\pi^{-4}} + 1/576*\ln(4)*\ln(8)*F^{-6}*C_0*e^{2*\pi^{-4}} + \\
& 1/128*\ln(4)*C_0^2*F^{-2}*e^{2*\pi^{-4}} - 5/512*\ln(5)*F^{-6}*C_0*e^{2*\pi^{-4}} + 1/128*\ln(5)^2*F^{-6}*C_0*e^{2*\pi^{-4}} + \\
& 35/4608*\ln(6)*F^{-6}*C_0*e^{2*\pi^{-4}} + 4*\ln(6)*F^{-6}*C_0*e^{2*L_8r*\pi^{-2}} + 8*\ln(6)*F^{-6}*C_0*e^{2*L_6r*\pi^{-2}} - \\
& 2*\ln(6)*F^{-6}*C_0*e^{2*L_5r*\pi^{-2}} - 8*\ln(6)*F^{-6}*C_0*e^{2*L_4r*\pi^{-2}} + 5/2*\ln(6)*F^{-6}*C_0*e^{2*L_3r*\pi^{-2}} + 2*\ln(6)*F^{-6}*C_0*e^{2*L_2r*\pi^{-2}} + \\
& 8*\ln(6)*F^{-6}*C_0*e^{2*L_1r*\pi^{-2}} - 1/384*\ln(6)*F^{-2}*e^{2*\pi^{-4}} + 7/768*\ln(6)^2*F^{-6}*C_0*e^{2*\pi^{-4}} - \\
& 1/512*\ln(6)*\ln(7)*F^{-6}*C_0*e^{2*\pi^{-4}} + 13/2304*\ln(6)*\ln(8)*F^{-6}*C_0*e^{2*\pi^{-4}} - 1/128*\ln(7)*F^{-6}*C_0*e^{2*\pi^{-4}} - \\
& 1/768*\ln(7)^2*F^{-6}*C_0*e^{2*\pi^{-4}} - 1/2304*\ln(7)*\ln(8)*F^{-6}*C_0*e^{2*\pi^{-4}} + 181/82944*\ln(8)*F^{-6}*C_0*e^{2*\pi^{-4}} + \\
& 32/9*\ln(8)*F^{-6}*C_0*e^{2*L_8r*\pi^{-2}} + 8*\ln(8)*F^{-6}*C_0*e^{2*L_6r*\pi^{-2}} - 14/9*\ln(8)*F^{-6}*C_0*e^{2*L_5r*\pi^{-2}} - \\
& 70/9*\ln(8)*F^{-6}*C_0*e^{2*L_4r*\pi^{-2}} + 4/3*\ln(8)*F^{-6}*C_0*e^{2*L_3r*\pi^{-2}} + 4/3*\ln(8)*F^{-6}*C_0*e^{2*L_2r*\pi^{-2}} + \\
& 16/3*\ln(8)*F^{-6}*C_0*e^{2*L_1r*\pi^{-2}} + 5/1152*\ln(8)*F^{-2}*e^{2*\pi^{-4}} - 1/9*\ln(8)*F^{-2}*e^{2*K_{11}r*\pi^{-2}} - \\
& 25/162*\ln(8)*F^{-2}*e^{2*K_{10}r*\pi^{-2}} - 7/162*\ln(8)*F^{-2}*e^{2*K_{9}r*\pi^{-2}} + 4/27*\ln(8)*F^{-2}*e^{2*K_{8}r*\pi^{-2}} - \\
& 2/27*\ln(8)*F^{-2}*e^{2*K_{7}r*\pi^{-2}} - 1/162*\ln(8)*F^{-2}*e^{2*K_{6}r*\pi^{-2}} + 11/162*\ln(8)*F^{-2}*e^{2*K_{5}r*\pi^{-2}} - \\
& 1/54*\ln(8)*F^{-2}*e^{2*K_{4}r*\pi^{-2}} - 1/27*\ln(8)*F^{-2}*e^{2*K_{3}r*\pi^{-2}} - 1/9*\ln(8)*F^{-2}*e^{2*K_{2}r*\pi^{-2}} + \\
& 1/9*\ln(8)*F^{-2}*e^{2*K_{1}r*\pi^{-2}} + 5/1728*\ln(8)^2*F^{-6}*C_0*e^{2*\pi^{-4}} + 1/128*mL(1,5,4)*F^{-6}*C_0*e^{2*\pi^{-4}} + \\
& 1/256*mL(3,4,7)*F^{-6}*C_0*e^{2*\pi^{-4}} - 7/384*mL(4,1,4)*F^{-2}*e^{2*\pi^{-4}} - 71/1024*mL(4,1,5)*F^{-6}*C_0*e^{2*\pi^{-4}} - \\
& 3/64*mL(4,3,7)*F^{-6}*C_0*e^{2*\pi^{-4}} + 3/256*mL(4,8,7)*F^{-6}*C_0*e^{2*\pi^{-4}} + 1/324*mL(8,1,8)*F^{-6}*C_0*e^{2*\pi^{-4}} + \\
& 131/9216*C_0*F^{-6}*C_0*e^{2*\pi^{-4}} + 2*C_0*F^{-6}*C_0*e^{2*L_8r*\pi^{-2}} + 30*C_0*F^{-6}*C_0*e^{2*L_6r*\pi^{-2}} - \\
& 7/2*C_0*F^{-6}*C_0*e^{2*L_5r*\pi^{-2}} - 41*C_0*F^{-6}*C_0*e^{2*L_4r*\pi^{-2}} - 233/54*C_0*F^{-6}*C_0*e^{2*L_3r*\pi^{-2}} - 46/9*C_0*F^{-6}*C_0*e^{2*L_2r*\pi^{-2}} - \\
& 40/3*C_0*F^{-6}*C_0*e^{2*L_1r*\pi^{-2}} + 1/1024*C_0*F^{-2}*e^{2*\pi^{-4}} - 1/1152*C_0*F^{-2}*e^{2*\pi^{-2}} + 49/36*C_0*F^{-2}*e^{2*K_{11}r*\pi^{-2}} + \\
& 125/81*C_0*F^{-2}*e^{2*K_{10}r*\pi^{-2}} + 59/324*C_0*F^{-2}*e^{2*K_{9}r*\pi^{-2}} + 163/54*C_0*F^{-2}*e^{2*K_{8}r*\pi^{-2}} + \\
& 13/54*C_0*F^{-2}*e^{2*K_{7}r*\pi^{-2}} - 85/216*C_0*F^{-2}*e^{2*K_{6}r*\pi^{-2}} - 47/216*C_0*F^{-2}*e^{2*K_{5}r*\pi^{-2}} - 1/54*C_0*F^{-2}*e^{2*K_{4}r*\pi^{-2}} + \\
& 1/27*C_0*F^{-2}*e^{2*K_{3}r*\pi^{-2}} - 14/27*C_0*F^{-2}*e^{2*K_{2}r*\pi^{-2}} - 13/54*C_0*F^{-2}*e^{2*K_{1}r*\pi^{-2}} + 3*C_0*F^{-2}*e^{2*L_6r*\pi^{-2}} + \\
& 3/2*C_0*F^{-2}*e^{2*L_4r*\pi^{-2}} + 47/1536*C_0^2*F^{-6}*C_0*e^{2*\pi^{-4}} - 121/4608*C_0^2*F^{-6}*C_0*e^{2*\pi^{-4}}
\end{aligned}$$

$$\begin{aligned}
& 2^*e^{\wedge 2}*\pi^{\wedge -4} - 1/192*C^{\wedge 3}*F^{\wedge -2}*e^{\wedge 2}*\pi^{\wedge -4} + 1/72*Ab(eps,2,1)*F^{\wedge -2}*e^{\wedge 2}*\pi^{\wedge -2} \\
& + 11/36*Bb(eps,1,0,p1ext.p1ext)*F^{\wedge -2}*e^{\wedge 2}*\pi^{\wedge -2} + 4/3*Tb(eps,1,4,4,p1ext.p1ext)*F^{\wedge -2} \\
& *e^{\wedge 2}) \\
& + mpp2^*mkp2^{\wedge 2} * (+ 9/512*mL(4,3,7)*F^{\wedge -6}*C0^*e^{\wedge 2}*\pi^{\wedge -4}*mpo2^{\wedge -1} - \\
& 11/512*mL(4,8,7)*F^{\wedge -6}*C0^*e^{\wedge 2}*me2^{\wedge -1}*\pi^{\wedge -4}) \\
& + mpp2^{\wedge 2}*mkp2^{\wedge -1} * (+ 5/192*mL(4,7,8)*mm(4)*mm(7)*F^{\wedge -6}*C0^*e^{\wedge 2}*\pi^{\wedge -4} \\
&) \\
& + mpp2^{\wedge 2} * (- 2615/13824*F^{\wedge -6}*C0^*e^{\wedge 2}*\pi^{\wedge -4} + 121/13824*F^{\wedge -6}*C0^*e^{\wedge 2}*\pi^{\wedge -2} \\
& - 62/9*F^{\wedge -6}*C0^*e^{\wedge 2}*L8r*\pi^{\wedge -2} + 8/9*F^{\wedge -6}*C0^*e^{\wedge 2}*L7r*\pi^{\wedge -2} - 82/9*F^{\wedge -6} \\
& *C0^*e^{\wedge 2}*L6r*\pi^{\wedge -2} + 97/27*F^{\wedge -6}*C0^*e^{\wedge 2}*L5r*\pi^{\wedge -2} + 768*F^{\wedge -6}*C0^*e^{\wedge 2}*L5r*L8r \\
& + 1280*F^{\wedge -6}*C0^*e^{\wedge 2}*L5r*L6r - 256*F^{\wedge -6}*C0^*e^{\wedge 2}*L5r^{\wedge 2} + 41/9*F^{\wedge -6} \\
& *C0^*e^{\wedge 2}*L4r*\pi^{\wedge -2} + 1280*F^{\wedge -6}*C0^*e^{\wedge 2}*L4r*L8r + 1792*F^{\wedge -6}*C0^*e^{\wedge 2}*L4r*L6r \\
& - 1024*F^{\wedge -6}*C0^*e^{\wedge 2}*L4r*L5r - 768*F^{\wedge -6}*C0^*e^{\wedge 2}*L4r^{\wedge 2} + 1/18*F^{\wedge -6} \\
& *C0^*e^{\wedge 2}*L3r*\pi^{\wedge -2} - 1/3*F^{\wedge -6}*C0^*e^{\wedge 2}*L2r*\pi^{\wedge -2} - 320*F^{\wedge -6}*C0*CC32^*e^{\wedge 2} - \\
& 192*F^{\wedge -6}*C0*CC31^*e^{\wedge 2} - 672*F^{\wedge -6}*C0*CC21^*e^{\wedge 2} - 480*F^{\wedge -6}*C0*CC20^*e^{\wedge 2} - \\
& 288*F^{\wedge -6}*C0*CC19^*e^{\wedge 2} + 64*F^{\wedge -6}*C0*CC17^*e^{\wedge 2} + 64*F^{\wedge -6}*C0*CC16^*e^{\wedge 2} + \\
& 128*F^{\wedge -6}*C0*CC15^*e^{\wedge 2} + 64*F^{\wedge -6}*C0*CC14^*e^{\wedge 2} + 192*F^{\wedge -6}*C0*CC13^*e^{\wedge 2} \\
& + 64*F^{\wedge -6}*C0*CC12^*e^{\wedge 2} - 643/18432*F^{\wedge -2}*e^{\wedge 2}*\pi^{\wedge -4} - 161/27648*F^{\wedge -2} \\
& *e^{\wedge 2}*\pi^{\wedge -2} + 11/162*F^{\wedge -2}*e^{\wedge 2}*K10r*\pi^{\wedge -2} + 11/162*F^{\wedge -2}*e^{\wedge 2}*K9r*\pi^{\wedge -2} \\
& + 5/54*F^{\wedge -2}*e^{\wedge 2}*K8r*\pi^{\wedge -2} + 5/54*F^{\wedge -2}*e^{\wedge 2}*K7r*\pi^{\wedge -2} - 2/27*F^{\wedge -2} \\
& *e^{\wedge 2}*K6r*\pi^{\wedge -2} - 2/27*F^{\wedge -2}*e^{\wedge 2}*K5r*\pi^{\wedge -2} - 7/108*F^{\wedge -2}*e^{\wedge 2}*K4r*\pi^{\wedge -2} \\
& + 7/54*F^{\wedge -2}*e^{\wedge 2}*K3r*\pi^{\wedge -2} - 5/54*F^{\wedge -2}*e^{\wedge 2}*K2r*\pi^{\wedge -2} - 5/54*F^{\wedge -2} \\
& *e^{\wedge 2}*K1r*\pi^{\wedge -2} + F^{\wedge -2}*e^{\wedge 2}*L8r*\pi^{\wedge -2} - 320/9*F^{\wedge -2}*e^{\wedge 2}*L8r*K6r - \\
& 320/9*F^{\wedge -2}*e^{\wedge 2}*L8r*K5r - 128/3*F^{\wedge -2}*e^{\wedge 2}*L8r*K2r - 128/3*F^{\wedge -2}*e^{\wedge 2}*L8r*K1r \\
& + F^{\wedge -2}*e^{\wedge 2}*L6r*\pi^{\wedge -2} - 320/9*F^{\wedge -2}*e^{\wedge 2}*L6r*K6r - 320/9*F^{\wedge -2}*e^{\wedge 2}*L6r*K5r - \\
& 128/3*F^{\wedge -2}*e^{\wedge 2}*L6r*K2r - 128/3*F^{\wedge -2}*e^{\wedge 2}*L6r*K1r - 1/2*F^{\wedge -2}*e^{\wedge 2}*L5r*\pi^{\wedge -2} \\
& - 64*F^{\wedge -2}*e^{\wedge 2}*L5r*K11r - 736/9*F^{\wedge -2}*e^{\wedge 2}*L5r*K10r - 160/9*F^{\wedge -2} \\
& *e^{\wedge 2}*L5r*K9r - 160/3*F^{\wedge -2}*e^{\wedge 2}*L5r*K8r - 64/3*F^{\wedge -2}*e^{\wedge 2}*L5r*K7r \\
& + 320/9*F^{\wedge -2}*e^{\wedge 2}*L5r*K6r + 320/9*F^{\wedge -2}*e^{\wedge 2}*L5r*K5r + 128/3*F^{\wedge -2} \\
& *e^{\wedge 2}*L5r*K2r + 128/3*F^{\wedge -2}*e^{\wedge 2}*L5r*K1r - 1/2*F^{\wedge -2}*e^{\wedge 2}*L4r*\pi^{\wedge -2} \\
& - 64*F^{\wedge -2}*e^{\wedge 2}*L4r*K11r - 736/9*F^{\wedge -2}*e^{\wedge 2}*L4r*K10r - 160/9*F^{\wedge -2} \\
& *e^{\wedge 2}*L4r*K9r - 160/3*F^{\wedge -2}*e^{\wedge 2}*L4r*K8r - 64/3*F^{\wedge -2}*e^{\wedge 2}*L4r*K7r \\
& + 320/9*F^{\wedge -2}*e^{\wedge 2}*L4r*K6r + 320/9*F^{\wedge -2}*e^{\wedge 2}*L4r*K5r + 128/3*F^{\wedge -2} \\
& *e^{\wedge 2}*L4r*K2r + 128/3*F^{\wedge -2}*e^{\wedge 2}*L4r*K1r + 17/27648*\ln(1)*F^{\wedge -6}*C0^*e^{\wedge 2}*\pi^{\wedge -4} \\
& + 4*\ln(1)*F^{\wedge -6}*C0^*e^{\wedge 2}*L8r*\pi^{\wedge -2} + 12*\ln(1)*F^{\wedge -6}*C0^*e^{\wedge 2}*L6r*\pi^{\wedge -2} \\
& + 4*\ln(1)*F^{\wedge -6}*C0^*e^{\wedge 2}*L5r*\pi^{\wedge -2} + 2*\ln(1)*F^{\wedge -6}*C0^*e^{\wedge 2}*L4r*\pi^{\wedge -2} - \\
& 71/1536*\ln(1)*F^{\wedge -2}*e^{\wedge 2}*\pi^{\wedge -4} + 1/384*\ln(1)*F^{\wedge -2}*e^{\wedge 2}*\pi^{\wedge -2} - 3*\ln(1)*F^{\wedge -2} \\
& *e^{\wedge 2}*K11r*\pi^{\wedge -2} - 3*\ln(1)*F^{\wedge -2}*e^{\wedge 2}*K10r*\pi^{\wedge -2} - 5/2*\ln(1)*F^{\wedge -2}*e^{\wedge 2}*K8r*\pi^{\wedge -2} \\
& + \ln(1)*F^{\wedge -2}*e^{\wedge 2}*K6r*\pi^{\wedge -2} + 1/4*\ln(1)*F^{\wedge -2}*e^{\wedge 2}*K4r*\pi^{\wedge -2} + 1/2*\ln(1)*F^{\wedge -2} \\
& *e^{\wedge 2}*K3r*\pi^{\wedge -2} + \ln(1)*F^{\wedge -2}*e^{\wedge 2}*K2r*\pi^{\wedge -2} - 1/2*\ln(1)*F^{\wedge -2}*e^{\wedge 2}*L9r*\pi^{\wedge -2} \\
& - 3*\ln(1)*F^{\wedge -2}*e^{\wedge 2}*L8r*\pi^{\wedge -2} - 3*\ln(1)*F^{\wedge -2}*e^{\wedge 2}*L6r*\pi^{\wedge -2} + 3/2*\ln(1)*F^{\wedge -2} \\
& *e^{\wedge 2}*L5r*\pi^{\wedge -2} + 3/2*\ln(1)*F^{\wedge -2}*e^{\wedge 2}*L4r*\pi^{\wedge -2} + 143/4608*\ln(1)^{\wedge 2}*F^{\wedge -6} \\
& *C0^*e^{\wedge 2}*\pi^{\wedge -4} - 107/4608*\ln(1)^{\wedge 2}*F^{\wedge -2}*e^{\wedge 2}*\pi^{\wedge -4} + 1/64*\ln(1)^{\wedge 3}*F^{\wedge -2} \\
& *e^{\wedge 2}*\pi^{\wedge -4} - 3/64*\ln(1)^{\wedge 2}*C^*F^{\wedge -2}*e^{\wedge 2}*\pi^{\wedge -4} + 1/32*\ln(1)*\ln(2)*F^{\wedge -2}
\end{aligned}$$

$$\begin{aligned}
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 - 1/32^*ln(1)^*ln(3)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 - 3/512^*ln(1)^*ln(3)^*F^{\wedge} \\
& 2^*e^{\wedge}2^*pi^{\wedge}4 + 1/128^*ln(1)^*ln(4)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 1/768^*ln(1)^*ln(4)^*F^{\wedge} \\
& 2^*e^{\wedge}2^*pi^{\wedge}4 + 1/128^*ln(1)^*ln(5)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 1/512^*ln(1)^*ln(6)^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 - 1/1024^*ln(1)^*ln(7)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 - 7/2304^*ln(1)^*ln(8)^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 - 1/1536^*ln(1)^*ln(8)^*F^{\wedge}2^*e^{\wedge}2^*pi^{\wedge}4 + 221/2304^*ln(1)^*C^*F^{\wedge} \\
& 2^*e^{\wedge}2^*pi^{\wedge}4 + 3/64^*ln(1)^*C^{\wedge}2^*F^{\wedge}2^*e^{\wedge}2^*pi^{\wedge}4 - 5/256^*ln(2)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 \\
& + 1/64^*ln(2)^{\wedge}2^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 19/3072^*ln(3)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 \\
& - 3^*ln(3)^*F^{\wedge}6^*C0^*e^{\wedge}2^*L8r^*pi^{\wedge}2 - 4^*ln(3)^*F^{\wedge}6^*C0^*e^{\wedge}2^*L6r^*pi^{\wedge}2 \\
& + 2^*ln(3)^*F^{\wedge}6^*C0^*e^{\wedge}2^*L5r^*pi^{\wedge}2 + 5/2^*ln(3)^*F^{\wedge}6^*C0^*e^{\wedge}2^*L4r^*pi^{\wedge}2 \\
& + 2^*ln(3)^*F^{\wedge}6^*C0^*e^{\wedge}2^*L3r^*pi^{\wedge}2 + ln(3)^*F^{\wedge}6^*C0^*e^{\wedge}2^*L2r^*pi^{\wedge}2 \\
& + 4^*ln(3)^*F^{\wedge}6^*C0^*e^{\wedge}2^*L1r^*pi^{\wedge}2 - 19/1536^*ln(3)^*F^{\wedge}2^*e^{\wedge}2^*pi^{\wedge}4 \\
& - 1/4^*ln(3)^*F^{\wedge}2^*e^{\wedge}2^*K11r^*pi^{\wedge}2 - 1/9^*ln(3)^*F^{\wedge}2^*e^{\wedge}2^*K10r^*pi^{\wedge}2 + \\
& 5/36^*ln(3)^*F^{\wedge}2^*e^{\wedge}2^*K9r^*pi^{\wedge}2 - 1/12^*ln(3)^*F^{\wedge}2^*e^{\wedge}2^*K8r^*pi^{\wedge}2 + 1/6^*ln(3)^*F^{\wedge} \\
& 2^*e^{\wedge}2^*K7r^*pi^{\wedge}2 + 1/24^*ln(3)^*F^{\wedge}2^*e^{\wedge}2^*K6r^*pi^{\wedge}2 - 5/24^*ln(3)^*F^{\wedge} \\
& 2^*e^{\wedge}2^*K5r^*pi^{\wedge}2 - 1/4^*ln(3)^*F^{\wedge}2^*e^{\wedge}2^*K1r^*pi^{\wedge}2 + 17/1024^*ln(3)^{\wedge}2^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 3/512^*ln(3)^*ln(4)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 7/1024^*ln(3)^*ln(7)^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 - 1/4608^*ln(3)^*ln(8)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 - 37/3072^*ln(4)^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 19/3072^*ln(4)^{\wedge}2^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 - 1/1536^*ln(4)^{\wedge}2^*F^{\wedge} \\
& 2^*e^{\wedge}2^*pi^{\wedge}4 - 1/128^*ln(4)^*ln(5)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 1/768^*ln(4)^*ln(7)^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 13/3072^*ln(4)^*ln(8)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 - 1/512^*ln(6)^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 1/1536^*ln(6)^{\wedge}2^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 - 1/1536^*ln(6)^*ln(8)^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 - 15/1024^*ln(7)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 19/3072^*ln(7)^{\wedge}2^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 31/9216^*ln(7)^*ln(8)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 185/41472^*ln(8)^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 5/9^*ln(8)^*F^{\wedge}6^*C0^*e^{\wedge}2^*L8r^*pi^{\wedge}2 + 8/3^*ln(8)^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*L7r^*pi^{\wedge}2 - 4/3^*ln(8)^*F^{\wedge}6^*C0^*e^{\wedge}2^*L6r^*pi^{\wedge}2 + 1/9^*ln(8)^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*L5r^*pi^{\wedge}2 + 25/18^*ln(8)^*F^{\wedge}6^*C0^*e^{\wedge}2^*L4r^*pi^{\wedge}2 - 1/3^*ln(8)^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*L3r^*pi^{\wedge}2 - 1/3^*ln(8)^*F^{\wedge}6^*C0^*e^{\wedge}2^*L2r^*pi^{\wedge}2 - 4/3^*ln(8)^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*L1r^*pi^{\wedge}2 - 5/4608^*ln(8)^*F^{\wedge}2^*e^{\wedge}2^*pi^{\wedge}4 + 1/36^*ln(8)^*F^{\wedge} \\
& 2^*e^{\wedge}2^*K11r^*pi^{\wedge}2 + 11/324^*ln(8)^*F^{\wedge}2^*e^{\wedge}2^*K10r^*pi^{\wedge}2 + 1/162^*ln(8)^*F^{\wedge} \\
& 2^*e^{\wedge}2^*K9r^*pi^{\wedge}2 - 1/108^*ln(8)^*F^{\wedge}2^*e^{\wedge}2^*K8r^*pi^{\wedge}2 + 1/54^*ln(8)^*F^{\wedge} \\
& 2^*e^{\wedge}2^*K7r^*pi^{\wedge}2 - 5/648^*ln(8)^*F^{\wedge}2^*e^{\wedge}2^*K6r^*pi^{\wedge}2 - 11/648^*ln(8)^*F^{\wedge} \\
& 2^*e^{\wedge}2^*K5r^*pi^{\wedge}2 - 1/216^*ln(8)^*F^{\wedge}2^*e^{\wedge}2^*K4r^*pi^{\wedge}2 + 1/108^*ln(8)^*F^{\wedge} \\
& 2^*e^{\wedge}2^*K3r^*pi^{\wedge}2 - 1/36^*ln(8)^*F^{\wedge}2^*e^{\wedge}2^*K1r^*pi^{\wedge}2 + 103/27648^*ln(8)^{\wedge}2^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 - 1/128^*mL(1,5,4)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 1/128^*mL(1,6,7)^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 - 25/1152^*mL(3,1,3)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 - 1/128^*mL(3,4,7)^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 1/128^*mL(3,7,4)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 1/384^*mL(4,1,4)^*F^{\wedge} \\
& 2^*e^{\wedge}2^*pi^{\wedge}4 + 135/4096^*mL(4,1,5)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 1/128^*mL(4,3,7)^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 5/128^*mL(4,7,8)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 5/384^*mL(7,4,8)^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 - 1/648^*mL(8,1,8)^*F^{\wedge}6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 185/4608^*C^*F^{\wedge} \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}4 + 15^*C^*F^{\wedge}6^*C0^*e^{\wedge}2^*L8r^*pi^{\wedge}2 + 19^*C^*F^{\wedge}6^*C0^*e^{\wedge}2^*L6r^*pi^{\wedge} \\
& 2 - 33/2^*C^*F^{\wedge}6^*C0^*e^{\wedge}2^*L5r^*pi^{\wedge}2 - 43/2^*C^*F^{\wedge}6^*C0^*e^{\wedge}2^*L4r^*pi^{\wedge}2 \\
& - 53/27^*C^*F^{\wedge}6^*C0^*e^{\wedge}2^*L3r^*pi^{\wedge}2 - 17/9^*C^*F^{\wedge}6^*C0^*e^{\wedge}2^*L2r^*pi^{\wedge}2 - \\
& 10/3^*C^*F^{\wedge}6^*C0^*e^{\wedge}2^*L1r^*pi^{\wedge}2 - 5/1024^*C^*F^{\wedge}2^*e^{\wedge}2^*pi^{\wedge}4 - 1/384^*C^*F^{\wedge} \\
& 2^*e^{\wedge}2^*pi^{\wedge}2 + 38/9^*C^*F^{\wedge}2^*e^{\wedge}2^*K11r^*pi^{\wedge}2 + 1411/324^*C^*F^{\wedge}2^*e^{\wedge}2^*K10r^*pi^{\wedge} \\
& 2 + 43/324^*C^*F^{\wedge}2^*e^{\wedge}2^*K9r^*pi^{\wedge}2 + 185/54^*C^*F^{\wedge}2^*e^{\wedge}2^*K8r^*pi^{\wedge}2 + \\
& 4/27^*C^*F^{\wedge}2^*e^{\wedge}2^*K7r^*pi^{\wedge}2 - 25/18^*C^*F^{\wedge}2^*e^{\wedge}2^*K6r^*pi^{\wedge}2 - 7/54^*C^*F^{\wedge}
\end{aligned}$$

$$2^*e^{\wedge 2} * K5r * \pi^{\wedge -2} - 53/216 * C * F^{\wedge -2} * e^{\wedge 2} * K4r * \pi^{\wedge -2} - 55/108 * C * F^{\wedge -2} * e^{\wedge 2} * K3r * \pi^{\wedge -2} - 77/54 * C * F^{\wedge -2} * e^{\wedge 2} * K2r * \pi^{\wedge -2} - 4/27 * C * F^{\wedge -2} * e^{\wedge 2} * K1r * \pi^{\wedge -2} + 1/2 * C * F^{\wedge -2} * e^{\wedge 2} * L9r * \pi^{\wedge -2} + 3/2 * C * F^{\wedge -2} * e^{\wedge 2} * L8r * \pi^{\wedge -2} + 3/2 * C * F^{\wedge -2} * e^{\wedge 2} * L6r * \pi^{\wedge -2} + 3/4 * C * F^{\wedge -2} * e^{\wedge 2} * L5r * \pi^{\wedge -2} + 3/4 * C * F^{\wedge -2} * e^{\wedge 2} * L4r * \pi^{\wedge -2} + 41/4608 * C^{\wedge 2} * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 431/4608 * C^{\wedge 2} * F^{\wedge -2} * e^{\wedge 2} * \pi^{\wedge -4} - 1/64 * C^{\wedge 3} * F^{\wedge -2} * e^{\wedge 2} * \pi^{\wedge -4} - 5/144 * Ab(eps,2,1) * F^{\wedge -2} * e^{\wedge 2} * \pi^{\wedge -2} + 53/72 * Bb(eps,1,0,p1ext.p1ext) * F^{\wedge -2} * e^{\wedge 2} * \pi^{\wedge -2})$$

$$+ mpp2^{\wedge 2} * mkp2 * (- 1/128 * mL(1,6,7) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} * mko2^{\wedge -1} - 1/128 * mL(3,7,4) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} * mko2^{\wedge -1} + 5/256 * mL(4,3,7) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} * mpo2^{\wedge -1} + 1/256 * mL(4,8,7) * F^{\wedge -6} * C0 * e^{\wedge 2} * me2^{\wedge -1} * \pi^{\wedge -4})$$

$$+ mpp2^{\wedge 3} * (- 1/256 * mL(1,6,7) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} * mko2^{\wedge -1} - 1/256 * mL(3,7,4) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} * mko2^{\wedge -1});$$

Neutral pion: Mass633 =

$$+ mkp2 * (+ 1/512 * \ln(1) * mm(1) * mm(5) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 1/512 * \ln(1) * mm(1) * mm(6) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 1/512 * \ln(2) * mm(2) * mm(4) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 1/512 * \ln(2) * mm(2) * mm(7) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 1/512 * \ln(4) * mm(2) * mm(4) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 1/512 * \ln(4) * mm(4) * mm(5) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 1/512 * \ln(4) * mm(4) * mm(7) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 1/512 * \ln(5) * mm(5) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 1/512 * \ln(5) * mm(5) * mm(6) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 1/512 * \ln(6) * mm(1) * mm(6) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 1/512 * \ln(6) * mm(5) * mm(6) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 1/512 * \ln(6) * mm(6) * mm(5) * mm(6) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 1/512 * \ln(6) * mm(6) * mm(7) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 1/512 * \ln(7) * mm(2) * mm(7) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 1/512 * \ln(7) * mm(4) * mm(8) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 1/512 * \ln(8) * mm(4) * mm(8) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 1/512 * \ln(8) * mm(5) * mm(8) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 1/512 * \ln(8) * mm(6) * mm(8) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 1/512 * \ln(8) * mm(7) * mm(8) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 13/2048 * mm(4) * mm(5) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 13/1024 * mm(4) * mm(7) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 13/2048 * mm(4) * mm(8) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 13/1024 * mm(5) * mm(6) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 13/2048 * mm(5) * mm(8) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 13/2048 * mm(6) * mm(7) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 13/2048 * mm(6) * mm(8) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 13/2048 * mm(7) * mm(8) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4})$$

$$+ mkp2^{\wedge 2} * (+ 115/6144 * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 8/9 * F^{\wedge -6} * C0 * e^{\wedge 2} * L8r * \pi^{\wedge -2} + 8/9 * F^{\wedge -6} * C0 * e^{\wedge 2} * L7r * \pi^{\wedge -2} + 8/9 * F^{\wedge -6} * C0 * e^{\wedge 2} * L6r * \pi^{\wedge -2} - 8/27 * F^{\wedge -6} * C0 * e^{\wedge 2} * L5r * \pi^{\wedge -2} - 4/9 * F^{\wedge -6} * C0 * e^{\wedge 2} * L4r * \pi^{\wedge -2} + 1024 * F^{\wedge -6} * C0 * e^{\wedge 2} * L4r * L6r - 512 * F^{\wedge -6} * C0 * e^{\wedge 2} * L4r^{\wedge 2} - 43/108 * F^{\wedge -6} * C0 * e^{\wedge 2} * L3r * \pi^{\wedge -2} - 13/9 * F^{\wedge -6} * C0 * e^{\wedge 2} * L2r * \pi^{\wedge -2} - 384 * F^{\wedge -6} * C0 * CC21 * e^{\wedge 2} - 128 * F^{\wedge -6} * C0 * CC20 * e^{\wedge 2} + 128 * F^{\wedge -6} * C0 * CC16 * e^{\wedge 2} - 1/384 * F^{\wedge -2} * e^{\wedge 2} * \pi^{\wedge -4} - 1/1024 * \ln(1) * \ln(5) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 1/1024 * \ln(1) * \ln(6) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 1/1024 * \ln(2) * \ln(4) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 1/1024 * \ln(2) * \ln(7) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 89/9216 * \ln(4) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 2 * \ln(4) * F^{\wedge -6} * C0 * e^{\wedge 2} * L8r * \pi^{\wedge -2} + 4 * \ln(4) * F^{\wedge -6} * C0 * e^{\wedge 2} * L6r * \pi^{\wedge -2} - \ln(4) * F^{\wedge -6} * C0 * e^{\wedge 2} * L5r * \pi^{\wedge -2} - 4 * \ln(4) * F^{\wedge -6} * C0 * e^{\wedge 2} * L4r * \pi^{\wedge -2} + 5/4 * \ln(4) * F^{\wedge -6} * C0 * e^{\wedge 2} * L3r * \pi^{\wedge -2} + \ln(4) * F^{\wedge -6} * C0 * e^{\wedge 2} * L2r * \pi^{\wedge -2} + 4 * \ln(4) * F^{\wedge -6} * C0 * e^{\wedge 2} * L1r * \pi^{\wedge -2} - 1/192 * \ln(4) * F^{\wedge -2} * e^{\wedge 2} * \pi^{\wedge -4} + 29/9216 * \ln(4)^{\wedge 2} * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 1/1536 * \ln(4) * \ln(5) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 23/4608 * \ln(4) * \ln(6) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} - 1/512 * \ln(4) * \ln(7) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4} + 5/2304 * \ln(4) * \ln(8) * F^{\wedge -6} * C0 * e^{\wedge 2} * \pi^{\wedge -4})$$

$$\begin{aligned}
& 6^*C0^*e^2*pi^4 - 1/576*ln(4)^*C^*F^-6^*C0^*e^2*pi^4 + 3/1024*ln(5)^*F^-6^*C0^*e^2*pi^4 - 3/1024*ln(5)^2*F^-6^*C0^*e^2*pi^4 - 1/512*ln(5)*ln(6)^*F^-6^*C0^*e^2*pi^4 - 1/768*ln(5)*ln(8)^*F^-6^*C0^*e^2*pi^4 + 89/9216*ln(6)^*F^-6^*C0^*e^2*pi^4 + 2*ln(6)^*F^-6^*C0^*e^2*L8r*pi^2 + 4*ln(6)^*F^-6^*C0^*e^2*L6r*pi^2 - ln(6)^*F^-6^*C0^*e^2*L5r*pi^2 - 4*ln(6)^*F^-6^*C0^*e^2*L4r*pi^2 + 5/4*ln(6)^*F^-6^*C0^*e^2*L3r*pi^2 + ln(6)^*F^-6^*C0^*e^2*L2r*pi^2 + 4*ln(6)^*F^-6^*C0^*e^2*L1r*pi^2 - 1/3072*ln(6)^2*F^-6^*C0^*e^2*pi^4 - 1/1536*ln(6)*ln(7)^*F^-6^*C0^*e^2*pi^4 + 5/2304*ln(6)*ln(8)^*F^-6^*C0^*e^2*pi^4 - 4 + 1/576*ln(6)^*C^*F^-6^*C0^*e^2*pi^4 + 3/1024*ln(7)^*F^-6^*C0^*e^2*pi^4 - 3/1024*ln(7)^2*F^-6^*C0^*e^2*pi^4 - 1/768*ln(7)*ln(8)^*F^-6^*C0^*e^2*pi^4 - 59/20736*ln(8)^*F^-6^*C0^*e^2*pi^4 + 8/9*ln(8)^*F^-6^*C0^*e^2*L8r*pi^2 - 8/3*ln(8)^*F^-6^*C0^*e^2*L7r*pi^2 + 16/3*ln(8)^*F^-6^*C0^*e^2*L6r*pi^2 - 8/9*ln(8)^*F^-6^*C0^*e^2*L5r*pi^2 - 44/9*ln(8)^*F^-6^*C0^*e^2*L4r*pi^2 + 8/9*ln(8)^*F^-6^*C0^*e^2*L3r*pi^2 + 8/9*ln(8)^*F^-6^*C0^*e^2*L2r*pi^2 + 32/9*ln(8)^*F^-6^*C0^*e^2*L1r*pi^2 - 1/576*ln(8)^2*F^-6^*C0^*e^2*pi^4 - 1/256*mL(1,5,6)^*F^-6^*C0^*e^2*pi^4 - 1/256*mL(1,6,5)^*F^-6^*C0^*e^2*pi^4 - 1/256*mL(2,4,7)^*F^-6^*C0^*e^2*pi^4 - 1/256*mL(2,7,4)^*F^-6^*C0^*e^2*pi^4 + 9/512*mL(4,2,7)^*F^-6^*C0^*e^2*pi^4 + 1/384*mL(4,8,5)^*F^-6^*C0^*e^2*pi^4 + 15/2048*mL(5,1,6)^*F^-6^*C0^*e^2*pi^4 + 1/384*mL(6,8,7)^*F^-6^*C0^*e^2*pi^4 - 4 + 1/384^*C^*F^-2^*e^2*pi^4) \\
& + mkp2^3 * (- 1/256*mL(4,8,5)^*F^-6^*C0^*e^2*me2^-1*pi^4 - 1/256*mL(6,8,7)^*F^-6^*C0^*e^2*me2^-1*pi^4) \\
& + mpp2 * (+ 1/16*ln(1)^*mm(1)^*mm(2)^*F^-6^*C0^*e^2*pi^4 - 3/64*ln(1)^*mm(1)^*mm(3)^*F^-6^*C0^*e^2*pi^4 + 11/1024*ln(1)^*mm(1)^*mm(5)^*F^-6^*C0^*e^2*pi^4 - 9/1024*ln(1)^*mm(1)^*mm(6)^*F^-6^*C0^*e^2*pi^4 - 3/64*ln(2)^*mm(2)^*mm(3)^*F^-6^*C0^*e^2*pi^4 + 11/1024*ln(2)^*mm(2)^*mm(4)^*F^-6^*C0^*e^2*pi^4 - 9/1024*ln(2)^*mm(2)^*mm(7)^*F^-6^*C0^*e^2*pi^4 - 1/64*ln(3)^*mm(1)^*mm(3)^*F^-6^*C0^*e^2*pi^4 + 1/64*ln(3)^*mm(2)^*mm(3)^*F^-6^*C0^*e^2*pi^4 - 5/1024*ln(3)^*mm(3)^*mm(4)^*F^-6^*C0^*e^2*pi^4 + 5/1024*ln(3)^*mm(3)^*mm(5)^*F^-6^*C0^*e^2*pi^4 - 5/1024*ln(3)^*mm(3)^*mm(7)^*F^-6^*C0^*e^2*pi^4 + 19/1536*ln(4)^*mm(4)^*mm(5)^*F^-6^*C0^*e^2*pi^4 - 9/1024*ln(4)^*mm(4)^*mm(7)^*F^-6^*C0^*e^2*pi^4 - 5/768*ln(4)^*mm(4)^*mm(8)^*F^-6^*C0^*e^2*pi^4 - 9/1024*ln(5)^*mm(5)^*mm(6)^*F^-6^*C0^*e^2*pi^4 - 5/768*ln(5)^*mm(5)^*mm(8)^*F^-6^*C0^*e^2*pi^4 - 1/512*ln(6)^*mm(1)^*mm(6)^*F^-6^*C0^*e^2*pi^4 + 1/512*ln(6)^*mm(5)^*mm(6)^*F^-6^*C0^*e^2*pi^4 + 19/1536*ln(6)^*mm(6)^*mm(7)^*F^-6^*C0^*e^2*pi^4 - 5/768*ln(6)^*mm(6)^*mm(8)^*F^-6^*C0^*e^2*pi^4 - 1/512*ln(7)^*mm(2)^*mm(7)^*F^-6^*C0^*e^2*pi^4 + 1/512*ln(7)^*mm(4)^*mm(7)^*F^-6^*C0^*e^2*pi^4 - 5/768*ln(7)^*mm(7)^*mm(8)^*F^-6^*C0^*e^2*pi^4 - 1/1024*ln(8)^*mm(4)^*mm(8)^*F^-6^*C0^*e^2*pi^4 + 1/1024*ln(8)^*mm(5)^*mm(8)^*F^-6^*C0^*e^2*pi^4 - 1/1024*ln(8)^*mm(6)^*mm(8)^*F^-6^*C0^*e^2*pi^4 + 1/1024*ln(8)^*mm(7)^*mm(8)^*F^-6^*C0^*e^2*pi^4 - 1/128*mL(4,2,7)^*mm(2)^*mm(4)^*F^-6^*C0^*e^2*pi^4 - 13/64*mm(1)^*mm(2)^*F^-6^*C0^*e^2*pi^4 + 13/64*mm(1)^*mm(3)^*F^-6^*C0^*e^2*pi^4 - 143/4096*mm(1)^*mm(5)^*F^-6^*C0^*e^2*pi^4 + 143/4096*mm(1)^*mm(6)^*F^-6^*C0^*e^2*pi^4 + 13/128*mm(2)^*mm(3)^*F^-6^*C0^*e^2*pi^4 - 143/4096*mm(2)^*mm(4)^*F^-6^*C0^*e^2*pi^4 + 143/4096*mm(2)^*mm(7)^*F^-6^*C0^*e^2*pi^4 + 65/4096*mm(3)^*mm(4)^*F^-6^*C0^*e^2*pi^4 - 65/4096*mm(3)^*mm(5)^*F^-6^*C0^*e^2*pi^4)
\end{aligned}$$

$$\begin{aligned}
& 6^*C0^*e^2\pi^{\wedge-4} + 65/4096^*mm(3)^*mm(6)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} - 65/4096^*mm(3)^*mm(7)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} - 247/6144^*mm(4)^*mm(5)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} + 91/4096^*mm(4)^*mm(7)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} + 299/12288^*mm(4)^*mm(8)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} + 91/4096^*mm(5)^*mm(6)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} + 221/12288^*mm(5)^*mm(8)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} - 247/6144^*mm(6)^*mm(7)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} + 299/12288^*mm(6)^*mm(8)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} + 221/12288^*mm(7)^*mm(8)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} - 16^*HH1b(1,2,3,plext.plext)^*F^{\wedge-6}C0^*e^2 - 4^*HH1b(1,5,6,plext.plext)^*F^{\wedge-6}C0^*e^2 - 16^*HH1b(2,1,3,plext.plext)^*F^{\wedge-6}C0^*e^2 - 4^*HH1b(2,4,7,plext.plext)^*F^{\wedge-6}C0^*e^2 + 2^*HH1b(3,4,5,plext.plext)^*F^{\wedge-6}C0^*e^2 + 2^*HH1b(3,6,7,plext.plext)^*F^{\wedge-6}C0^*e^2 - 2^*HH1b(4,5,8,plext.plext)^*F^{\wedge-6}C0^*e^2 - 2^*HH1b(5,4,8,plext.plext)^*F^{\wedge-6}C0^*e^2 - 2^*HH1b(6,7,8,plext.plext)^*F^{\wedge-6}C0^*e^2 - 2^*HH1b(7,6,8,plext.plext)^*F^{\wedge-6}C0^*e^2 + 3/2^*H21b(1,5,6,plext.plext)^*F^{\wedge-6}C0^*e^2 + 3/2^*H21b(2,4,7,plext.plext)^*F^{\wedge-6}C0^*e^2 - 12^*H21b(3,1,2,plext.plext)^*F^{\wedge-6}C0^*e^2 - 3/4^*H21b(3,4,5,plext.plext)^*F^{\wedge-6}C0^*e^2 - 3/4^*H21b(3,6,7,plext.plext)^*F^{\wedge-6}C0^*e^2 - 3^*H21b(4,2,7,plext.plext)^*F^{\wedge-6}C0^*e^2 - 3^*H21b(5,1,6,plext.plext)^*F^{\wedge-6}C0^*e^2 - 3^*H21b(6,1,5,plext.plext)^*F^{\wedge-6}C0^*e^2 - 3^*H21b(7,2,4,plext.plext)^*F^{\wedge-6}C0^*e^2 - 9/4^*H21b(8,4,5,plext.plext)^*F^{\wedge-6}C0^*e^2 - 9/4^*H21b(8,6,7,plext.plext)^*F^{\wedge-6}C0^*e^2) \\
& + mpp2^*mkp2 * (+ 1105/110592^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} + 101/18432^*F^{\wedge-6}C0^*e^2\pi^{\wedge-2} - 16/9^*F^{\wedge-6}C0^*e^2L7r^*\pi^{\wedge-2} - 16/9^*F^{\wedge-6}C0^*e^2L6r^*\pi^{\wedge-2} - 8/27^*F^{\wedge-6}C0^*e^2L5r^*\pi^{\wedge-2} + 1024^*F^{\wedge-6}C0^*e^2L5r^*L6r - 10/9^*F^{\wedge-6}C0^*e^2L4r^*\pi^{\wedge-2} + 1024^*F^{\wedge-6}C0^*e^2L4r^*L8r + 4096^*F^{\wedge-6}C0^*e^2L4r^*L6r - 1024^*F^{\wedge-6}C0^*e^2L4r^*L5r - 2048^*F^{\wedge-6}C0^*e^2L4r^2 - 43/108^*F^{\wedge-6}C0^*e^2L3r^*\pi^{\wedge-2} - 13/9^*F^{\wedge-6}C0^*e^2L2r^*\pi^{\wedge-2} - 256^*F^{\wedge-6}C0^*CC32^*e^2 - 1536^*F^{\wedge-6}C0^*CC21^*e^2 - 256^*F^{\wedge-6}C0^*CC20^*e^2 + 128^*F^{\wedge-6}C0^*CC15^*e^2 + 256^*F^{\wedge-6}C0^*CC13^*e^2 - 1/81^*F^{\wedge-2}e^2K10r^*\pi^{\wedge-2} - 1/81^*F^{\wedge-2}e^2K9r^*\pi^{\wedge-2} + 25/54^*F^{\wedge-2}e^2K8r^*\pi^{\wedge-2} - 1/27^*F^{\wedge-2}e^2K7r^*\pi^{\wedge-2} + 1/54^*F^{\wedge-2}e^2K6r^*\pi^{\wedge-2} + 1/54^*F^{\wedge-2}e^2K5r^*\pi^{\wedge-2} + 1/108^*F^{\wedge-2}e^2K4r^*\pi^{\wedge-2} - 1/54^*F^{\wedge-2}e^2K3r^*\pi^{\wedge-2} + 1/27^*F^{\wedge-2}e^2K2r^*\pi^{\wedge-2} + 1/27^*F^{\wedge-2}e^2K1r^*\pi^{\wedge-2} - 640/9^*F^{\wedge-2}e^2L6r^*K6r - 640/9^*F^{\wedge-2}e^2L6r^*K5r - 64^*F^{\wedge-2}e^2L6r^*K4r + 128^*F^{\wedge-2}e^2L6r^*K3r - 256/3^*F^{\wedge-2}e^2L6r^*K2r - 256/3^*F^{\wedge-2}e^2L6r^*K1r - 320/9^*F^{\wedge-2}e^2L4r^*K10r - 320/9^*F^{\wedge-2}e^2L4r^*K9r - 128/3^*F^{\wedge-2}e^2L4r^*K8r - 128/3^*F^{\wedge-2}e^2L4r^*K7r + 640/9^*F^{\wedge-2}e^2L4r^*K6r + 640/9^*F^{\wedge-2}e^2L4r^*K5r + 64^*F^{\wedge-2}e^2L4r^*K4r - 128^*F^{\wedge-2}e^2L4r^*K3r + 256/3^*F^{\wedge-2}e^2L4r^*K2r + 256/3^*F^{\wedge-2}e^2L4r^*K1r \\
& + 29/1024^*\ln(1)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} - 12^*\ln(1)^*F^{\wedge-6}C0^*e^2L6r^*\pi^{\wedge-2} + 6^*\ln(1)^*F^{\wedge-6}C0^*e^2L4r^*\pi^{\wedge-2} + 1/2^*\ln(1)^*F^{\wedge-2}e^2K8r^*\pi^{\wedge-2} - 1/128^*\ln(1)^*\ln(4)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} - 1/1024^*\ln(1)^*\ln(5)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} - 5/1024^*\ln(1)^*\ln(6)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} + 1/192^*\ln(1)^*\ln(8)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} + 15/1024^*\ln(2)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} - 1/512^*\ln(2)^2^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} - 1/512^*\ln(2)^*\ln(4)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} - 3/1024^*\ln(2)^*\ln(7)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} - 151/13824^*\ln(3)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} + 8^*\ln(3)^*F^{\wedge-6}C0^*e^2L6r^*\pi^{\wedge-2} - 6^*\ln(3)^*F^{\wedge-6}C0^*e^2L4r^*\pi^{\wedge-2} + 1/256^*\ln(3)^*\ln(4)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} + 1/256^*\ln(3)^*\ln(6)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} - 1/288^*\ln(3)^*\ln(8)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} - 5/18432^*\ln(4)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} + 2^*\ln(4)^*F^{\wedge-6}C0^*e^2L8r^*\pi^{\wedge-2} + 4^*\ln(4)^*F^{\wedge-6}C0^*e^2L6r^*\pi^{\wedge-2} - 1/2^*\ln(4)^*F^{\wedge-6}C0^*e^2L5r^*\pi^{\wedge-2} - 2^*\ln(4)^*F^{\wedge-6}C0^*e^2L4r^*\pi^{\wedge-2} - 1/4^*\ln(4)^*F^{\wedge-2}e^2K11r^*\pi^{\wedge-2}
\end{aligned}$$

$$\begin{aligned}
& 2 - 19/72 \ln(4) F^{-2} e^{2K10r\pi} - 1/72 \ln(4) F^{-2} e^{2K9r\pi} - \\
& 2 - 1/2 \ln(4) F^{-2} e^{2K8r\pi} + 11/36 \ln(4) F^{-2} e^{2K6r\pi} - \\
& + 1/18 \ln(4) F^{-2} e^{2K5r\pi} + 7/48 \ln(4) F^{-2} e^{2K4r\pi} - \\
& - 7/24 \ln(4) F^{-2} e^{2K3r\pi} + 1/2 \ln(4) F^{-2} e^{2K2r\pi} + \\
& 137/18432 \ln(4)^2 F^{-6} C_0^2 e^{2\pi} - 7/3072 \ln(4) \ln(5) F^{-6} C_0^2 e^{2\pi} - \\
& 4 + 7/4608 \ln(4) \ln(6) F^{-6} C_0^2 e^{2\pi} + 3/512 \ln(4) \ln(7) F^{-6} C_0^2 e^{2\pi} - \\
& 6^* C_0^2 e^{2\pi} + 19/4608 \ln(4) \ln(8) F^{-6} C_0^2 e^{2\pi} - 1/1152 \ln(4) C^* F^{-6} C_0^2 e^{2\pi} - \\
& 47/2048 \ln(5) F^{-6} C_0^2 e^{2\pi} + 23/6144 \ln(5)^2 F^{-6} C_0^2 e^{2\pi} + 7/1024 \ln(5) \ln(6) F^{-6} C_0^2 e^{2\pi} + 7/2304 \ln(5) \ln(8) F^{-6} C_0^2 e^{2\pi} - \\
& 317/18432 \ln(6) F^{-6} C_0^2 e^{2\pi} + 4 \ln(6) F^{-6} C_0^2 e^{2L8r\pi} + 8 \ln(6) F^{-6} C_0^2 e^{2L6r\pi} - 2 \ln(6) F^{-6} C_0^2 e^{2L5r\pi} - 8 \ln(6) F^{-6} C_0^2 e^{2L4r\pi} + 5/2 \ln(6) F^{-6} C_0^2 e^{2L3r\pi} + 2 \ln(6) F^{-6} C_0^2 e^{2L2r\pi} + 8 \ln(6) F^{-6} C_0^2 e^{2L1r\pi} + 1/72 \ln(6) F^{-2} e^{2K10r\pi} - 1/72 \ln(6) F^{-2} e^{2K9r\pi} - 1/72 \ln(6) F^{-2} e^{2K8r\pi} - 1/48 \ln(6) F^{-2} e^{2K7r\pi} + 1/24 \ln(6) F^{-2} e^{2K6r\pi} + 79/6144 \ln(6)^2 F^{-6} C_0^2 e^{2\pi} - 5/1536 \ln(6) \ln(7) F^{-6} C_0^2 e^{2\pi} + 35/4608 \ln(6) \ln(8) F^{-6} C_0^2 e^{2\pi} + 1/1152 \ln(6) C^* F^{-6} C_0^2 e^{2\pi} - 23/2048 \ln(7) F^{-6} C_0^2 e^{2\pi} + 5/6144 \ln(7)^2 F^{-6} C_0^2 e^{2\pi} + 7/2304 \ln(7) \ln(8) F^{-6} C_0^2 e^{2\pi} - 319/41472 \ln(8) F^{-6} C_0^2 e^{2\pi} + 32/9 \ln(8) F^{-6} C_0^2 e^{2L8r\pi} + 8 \ln(8) F^{-6} C_0^2 e^{2L6r\pi} - 16/9 \ln(8) F^{-6} C_0^2 e^{2L5r\pi} - 62/9 \ln(8) F^{-6} C_0^2 e^{2L4r\pi} + 8/9 \ln(8) F^{-6} C_0^2 e^{2L3r\pi} + 8/9 \ln(8) F^{-6} C_0^2 e^{2L2r\pi} + 32/9 \ln(8) F^{-6} C_0^2 e^{2L1r\pi} - 7/162 \ln(8) F^{-2} e^{2K10r\pi} - 7/162 \ln(8) F^{-2} e^{2K9r\pi} - 2/27 \ln(8) F^{-2} e^{2K8r\pi} - 2/27 \ln(8) F^{-2} e^{2K7r\pi} + 11/162 \ln(8) F^{-2} e^{2K6r\pi} + 11/162 \ln(8) F^{-2} e^{2K5r\pi} + 5/108 \ln(8) F^{-2} e^{2K4r\pi} - 5/54 \ln(8) F^{-2} e^{2K3r\pi} + 1/9 \ln(8) F^{-2} e^{2K2r\pi} - 2 + 1/9 \ln(8) F^{-2} e^{2K1r\pi} + 7/864 \ln(8)^2 F^{-6} C_0^2 e^{2\pi} + 1/64 mL(1,5,6) F^{-6} C_0^2 e^{2\pi} + 1/128 mL(1,6,5) F^{-6} C_0^2 e^{2\pi} + 1/256 mL(2,4,7) F^{-6} C_0^2 e^{2\pi} - 7/256 mL(4,2,7) F^{-6} C_0^2 e^{2\pi} + 5/256 mL(4,3,5) F^{-6} C_0^2 e^{2\pi} + 5/768 mL(4,8,5) F^{-6} C_0^2 e^{2\pi} - 9/256 mL(5,1,6) F^{-6} C_0^2 e^{2\pi} + 5/256 mL(6,3,7) F^{-6} C_0^2 e^{2\pi} + 5/768 mL(6,8,7) F^{-6} C_0^2 e^{2\pi} + 1/162 mL(8,3,8) F^{-6} C_0^2 e^{2\pi} + 17/1024 C^* F^{-6} C_0^2 e^{2\pi} + 2 C^* F^{-6} C_0^2 e^{2L8r\pi} + 10 C^* F^{-6} C_0^2 e^{2L6r\pi} - 3/2 C^* F^{-6} C_0^2 e^{2L5r\pi} - 7 C^* F^{-6} C_0^2 e^{2L4r\pi} + 5/2 C^* F^{-6} C_0^2 e^{2L3r\pi} + 2 C^* F^{-6} C_0^2 e^{2L2r\pi} + 8 C^* F^{-6} C_0^2 e^{2L1r\pi} + 1/4 C^* F^{-2} e^{2K11r\pi} + 35/81 C^* F^{-2} e^{2K10r\pi} + 59/324 C^* F^{-2} e^{2K9r\pi} + 13/54 C^* F^{-2} e^{2K8r\pi} + 13/54 C^* F^{-2} e^{2K7r\pi} - 101/216 C^* F^{-2} e^{2K6r\pi} - 47/216 C^* F^{-2} e^{2K5r\pi} - 29/108 C^* F^{-2} e^{2K4r\pi} + 29/54 C^* F^{-2} e^{2K3r\pi} - 20/27 C^* F^{-2} e^{2K2r\pi} - 13/54 C^* F^{-2} e^{2K1r\pi} + 31/4608 C^2 F^{-6} C_0^2 e^{2\pi}) \\
& + \text{mpp}^2 \text{mkp}^2 * (- 5/512 mL(4,3,5) F^{-6} C_0^2 e^{2\pi} - 5/512 mL(4,8,5) F^{-6} C_0^2 e^{2\pi} - 5/512 mL(6,3,7) F^{-6} C_0^2 e^{2\pi})
\end{aligned}$$

$$\begin{aligned}
& 6^*C0^*e^2*pi^4*mpo2^2 - 5/512*mL(6,8,7)*F^-6*C0^*e^2*me2^-1*pi^4 - \\
& 1/324*mL(8,3,8)*F^-6*C0^*e^2*pi^4*mpo2^2 - 1) \\
& + mpp2^2*mkp2^-1 * (+ 5/384*mL(4,5,8)*mm(4)*mm(5)*F^-6*C0^*e^2*pi^4 \\
&) \\
& + mpp2^2 * (- 5675/221184*F^-6*C0^*e^2*pi^4 + 21/1024*F^-6*C0^*e^2*pi^4 - \\
& 2 - 26/9*F^-6*C0^*e^2*L8r*pi^2 + 8/9*F^-6*C0^*e^2*L7r*pi^2 - 46/9*F^- \\
& 6*C0^*e^2*L6r*pi^2 + 16/27*F^-6*C0^*e^2*L5r*pi^2 + 768*F^-6*C0^*e^2*L5r*L8r \\
& + 1280*F^-6*C0^*e^2*L5r*L6r - 384*F^-6*C0^*e^2*L5r^2 + 14/9*F^- \\
& 6*C0^*e^2*L4r*pi^2 + 1280*F^-6*C0^*e^2*L4r*L8r + 1792*F^-6*C0^*e^2*L4r*L6r \\
& - 1280*F^-6*C0^*e^2*L4r*L5r - 896*F^-6*C0^*e^2*L4r^2 - 19/27*F^- \\
& 6*C0^*e^2*L3r*pi^2 - 67/36*F^-6*C0^*e^2*L2r*pi^2 - 3/2*F^-6*C0^*e^2*L1r*pi^2 - \\
& 2 - 320*F^-6*C0^*CC32*e^2 - 192*F^-6*C0^*CC31*e^2 - 672*F^-6*C0^*CC21*e^2 \\
& - 480*F^-6*C0^*CC20*e^2 - 288*F^-6*C0^*CC19*e^2 + 96*F^-6*C0^*CC17*e^2 \\
& + 160*F^-6*C0^*CC16*e^2 + 160*F^-6*C0^*CC15*e^2 + 96*F^-6*C0^*CC14*e^2 \\
& + 320*F^-6*C0^*CC13*e^2 + 192*F^-6*C0^*CC12*e^2 + 1/384*F^-2*e^2*pi^4 - \\
& 4 + 1/2*F^-2*e^2*K11r*pi^2 + 46/81*F^-2*e^2*K10r*pi^2 + 11/162*F^- \\
& 2*e^2*K9r*pi^2 + 37/108*F^-2*e^2*K8r*pi^2 + 5/54*F^-2*e^2*K7r*pi^2 - \\
& 2/27*F^-2*e^2*K6r*pi^2 - 2/27*F^-2*e^2*K5r*pi^2 + 13/216*F^- \\
& 2*e^2*K4r*pi^2 - 13/108*F^-2*e^2*K3r*pi^2 - 5/54*F^-2*e^2*K2r*pi^2 - \\
& 2 - 5/54*F^-2*e^2*K1r*pi^2 - 320/9*F^-2*e^2*L8r*K6r - 320/9*F^- \\
& 2*e^2*L8r*K5r - 32*F^-2*e^2*L8r*K4r + 64*F^-2*e^2*L8r*K3r - 128/3*F^- \\
& 2*e^2*L8r*K2r - 128/3*F^-2*e^2*L8r*K1r - 320/9*F^-2*e^2*L6r*K6r - \\
& 320/9*F^-2*e^2*L6r*K5r - 32*F^-2*e^2*L6r*K4r + 64*F^-2*e^2*L6r*K3r - \\
& 128/3*F^-2*e^2*L6r*K2r - 128/3*F^-2*e^2*L6r*K1r - 160/9*F^-2*e^2*L5r*K10r \\
& - 160/9*F^-2*e^2*L5r*K9r - 64/3*F^-2*e^2*L5r*K8r - 64/3*F^-2*e^2*L5r*K7r \\
& + 320/9*F^-2*e^2*L5r*K6r + 320/9*F^-2*e^2*L5r*K5r + 32*F^-2*e^2*L5r*K4r \\
& - 64*F^-2*e^2*L5r*K3r + 128/3*F^-2*e^2*L5r*K2r + 128/3*F^-2*e^2*L5r*K1r \\
& - 160/9*F^-2*e^2*L4r*K10r - 160/9*F^-2*e^2*L4r*K9r - 64/3*F^-2*e^2*L4r*K8r \\
& - 64/3*F^-2*e^2*L4r*K7r + 320/9*F^-2*e^2*L4r*K6r + 320/9*F^- \\
& 2*e^2*L4r*K5r + 32*F^-2*e^2*L4r*K4r - 64*F^-2*e^2*L4r*K3r + 128/3*F^- \\
& 2*e^2*L4r*K2r + 128/3*F^-2*e^2*L4r*K1r + 115/2304*ln(1)*F^-6*C0^*e^2*pi^4 - \\
& 4 - 6*ln(1)*F^-6*C0^*e^2*L8r*pi^2 - 10*ln(1)*F^-6*C0^*e^2*L6r*pi^2 - \\
& 2 + 3*ln(1)*F^-6*C0^*e^2*L5r*pi^2 + 6*ln(1)*F^-6*C0^*e^2*L4r*pi^2 - \\
& 2 + 2*ln(1)*F^-6*C0^*e^2*L3r*pi^2 + ln(1)*F^-6*C0^*e^2*L2r*pi^2 - \\
& 2 + 4*ln(1)*F^-6*C0^*e^2*L1r*pi^2 - 5/768*ln(1)*F^-2*e^2*pi^4 + \\
& 5/18*ln(1)*F^-2*e^2*K10r*pi^2 + 5/18*ln(1)*F^-2*e^2*K9r*pi^2 + \\
& 1/12*ln(1)*F^-2*e^2*K8r*pi^2 + 1/3*ln(1)*F^-2*e^2*K7r*pi^2 + 1/12*ln(1)*F^- \\
& 2*e^2*K6r*pi^2 - 5/12*ln(1)*F^-2*e^2*K5r*pi^2 + 1/8*ln(1)*F^-2*e^2*K4r*pi^2 - \\
& 2 - 1/4*ln(1)*F^-2*e^2*K3r*pi^2 - 1/2*ln(1)*F^-2*e^2*K1r*pi^2 + \\
& 23/1024*ln(1)^2*F^-6*C0^*e^2*pi^4 - 3/256*ln(1)^2*F^-2*e^2*pi^4 + \\
& 7/256*ln(1)*ln(2)*F^-6*C0^*e^2*pi^4 + 11/256*ln(1)*ln(3)*F^-6*C0^*e^2*pi^4 - \\
& 4 + 3/512*ln(1)*ln(5)*F^-6*C0^*e^2*pi^4 + 7/1024*ln(1)*ln(6)*F^- \\
& 6*C0^*e^2*pi^4 + 1/2304*ln(1)*ln(8)*F^-6*C0^*e^2*pi^4 - 121/2048*ln(2)*F^- \\
& 6*C0^*e^2*pi^4 + 39/2048*ln(2)^2*F^-6*C0^*e^2*pi^4 + 3/256*ln(2)*ln(3)*F^- \\
& 6*C0^*e^2*pi^4 + 7/2048*ln(2)*ln(4)*F^-6*C0^*e^2*pi^4 + 9/2048*ln(2)*ln(7)*F^-
\end{aligned}$$

$$\begin{aligned}
& 6^*C0^*e^2^*pi^{\wedge}4 - 2897/55296^*ln(3)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 15^*ln(3)^*F^{\wedge}6^*C0^*e^2^*L8r^*pi^{\wedge}2 + 28^*ln(3)^*F^{\wedge}6^*C0^*e^2^*L6r^*pi^{\wedge}2 - 15/2^*ln(3)^*F^{\wedge}6^*C0^*e^2^*L5r^*pi^{\wedge}2 - 27/2^*ln(3)^*F^{\wedge}6^*C0^*e^2^*L4r^*pi^{\wedge}2 + 9/2^*ln(3)^*F^{\wedge}6^*C0^*e^2^*L3r^*pi^{\wedge}2 + 9^*ln(3)^*F^{\wedge}6^*C0^*e^2^*L2r^*pi^{\wedge}2 + 9^*ln(3)^*F^{\wedge}6^*C0^*e^2^*L1r^*pi^{\wedge}2 - 5/36^*ln(3)^*F^{\wedge}2^*e^2^*K10r^*pi^{\wedge}2 - 5/36^*ln(3)^*F^{\wedge}2^*e^2^*K9r^*pi^{\wedge}2 - 1/6^*ln(3)^*F^{\wedge}2^*e^2^*K8r^*pi^{\wedge}2 - 1/6^*ln(3)^*F^{\wedge}2^*e^2^*K7r^*pi^{\wedge}2 + 5/24^*ln(3)^*F^{\wedge}2^*e^2^*K6r^*pi^{\wedge}2 + 5/24^*ln(3)^*F^{\wedge}2^*e^2^*K5r^*pi^{\wedge}2 + 3/16^*ln(3)^*F^{\wedge}2^*e^2^*K4r^*pi^{\wedge}2 - 3/8^*ln(3)^*F^{\wedge}2^*e^2^*K3r^*pi^{\wedge}2 + 1/4^*ln(3)^*F^{\wedge}2^*e^2^*K2r^*pi^{\wedge}2 + 1/4^*ln(3)^*F^{\wedge}2^*e^2^*K1r^*pi^{\wedge}2 + 33/1024^*ln(3)^2^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 15/4096^*ln(3)^*ln(4)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 15/4096^*ln(3)^*ln(5)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 7/4096^*ln(3)^*ln(6)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 15/4096^*ln(3)^*ln(7)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 11/4608^*ln(3)^*ln(8)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 19/2048^*ln(4)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 19/6144^*ln(4)^2^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 1/256^*ln(4)^*ln(5)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 1/2048^*ln(4)^*ln(7)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 25/12288^*ln(4)^*ln(8)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 9/2048^*ln(5)^*ln(6)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 25/36864^*ln(5)^*ln(8)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 1/6144^*ln(6)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 23/6144^*ln(6)^2^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 3/1024^*ln(6)^*ln(7)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 17/12288^*ln(6)^*ln(8)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 17/2048^*ln(7)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 19/6144^*ln(7)^2^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 35/36864^*ln(7)^*ln(8)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 587/165888^*ln(8)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 5/9^*ln(8)^*F^{\wedge}6^*C0^*e^2^*L8r^*pi^{\wedge}2 + 8/3^*ln(8)^*F^{\wedge}6^*C0^*e^2^*L7r^*pi^{\wedge}2 - 4/3^*ln(8)^*F^{\wedge}6^*C0^*e^2^*L6r^*pi^{\wedge}2 + 1/6^*ln(8)^*F^{\wedge}6^*C0^*e^2^*L5r^*pi^{\wedge}2 + 23/18^*ln(8)^*F^{\wedge}6^*C0^*e^2^*L4r^*pi^{\wedge}2 - 5/18^*ln(8)^*F^{\wedge}6^*C0^*e^2^*L3r^*pi^{\wedge}2 - 5/18^*ln(8)^*F^{\wedge}6^*C0^*e^2^*L2r^*pi^{\wedge}2 - 10/9^*ln(8)^*F^{\wedge}6^*C0^*e^2^*L1r^*pi^{\wedge}2 + 1/162^*ln(8)^*F^{\wedge}2^*e^2^*K10r^*pi^{\wedge}2 + 1/162^*ln(8)^*F^{\wedge}2^*e^2^*K9r^*pi^{\wedge}2 + 1/54^*ln(8)^*F^{\wedge}2^*e^2^*K8r^*pi^{\wedge}2 + 1/54^*ln(8)^*F^{\wedge}2^*e^2^*K7r^*pi^{\wedge}2 - 11/648^*ln(8)^*F^{\wedge}2^*e^2^*K6r^*pi^{\wedge}2 - 11/648^*ln(8)^*F^{\wedge}2^*e^2^*K5r^*pi^{\wedge}2 - 5/432^*ln(8)^*F^{\wedge}2^*e^2^*K4r^*pi^{\wedge}2 + 5/216^*ln(8)^*F^{\wedge}2^*e^2^*K3r^*pi^{\wedge}2 - 1/36^*ln(8)^*F^{\wedge}2^*e^2^*K2r^*pi^{\wedge}2 - 1/36^*ln(8)^*F^{\wedge}2^*e^2^*K1r^*pi^{\wedge}2 + 67/27648^*ln(8)^2^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 3/64^*mL(1,3,2)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 3/256^*mL(1,5,6)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 1/128^*mL(1,6,5)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 1/144^*mL(2,1,3)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 1/256^*mL(2,4,7)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 1/128^*mL(2,7,4)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 1/512^*mL(4,2,7)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 5/1024^*mL(4,3,5)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 5/256^*mL(4,5,8)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 1/3072^*mL(4,8,5)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 7/256^*mL(5,1,6)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 5/768^*mL(5,4,8)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 5/1024^*mL(6,3,7)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 1/3072^*mL(6,8,7)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 - 1/648^*mL(8,3,8)^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 47/3072^*C^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 5^*C^*F^{\wedge}6^*C0^*e^2^*L8r^*pi^{\wedge}2 + 7^*C^*F^{\wedge}6^*C0^*e^2^*L6r^*pi^{\wedge}2 - 7/2^*C^*F^{\wedge}6^*C0^*e^2^*L5r^*pi^{\wedge}2 - 13/2^*C^*F^{\wedge}6^*C0^*e^2^*L4r^*pi^{\wedge}2 + 4^*C^*F^{\wedge}6^*C0^*e^2^*L3r^*pi^{\wedge}2 + 2^*C^*F^{\wedge}6^*C0^*e^2^*L2r^*pi^{\wedge}2 + 8^*C^*F^{\wedge}6^*C0^*e^2^*L1r^*pi^{\wedge}2 - 1/384^*C^*F^{\wedge}2^*e^2^*pi^{\wedge}4 + 43/324^*C^*F^{\wedge}2^*e^2^*K10r^*pi^{\wedge}2 + 43/324^*C^*F^{\wedge}2^*e^2^*K9r^*pi^{\wedge}2 + 43/108^*C^*F^{\wedge}2^*e^2^*K8r^*pi^{\wedge}2 + 4/27^*C^*F^{\wedge}2^*e^2^*K7r^*pi^{\wedge}2 - 17/27^*C^*F^{\wedge}2^*e^2^*K6r^*pi^{\wedge}2 - 7/54^*C^*F^{\wedge}2^*e^2^*K5r^*pi^{\wedge}2 - 67/108^*C^*F^{\wedge}2^*e^2^*K4r^*pi^{\wedge}2 + 67/54^*C^*F^{\wedge}2^*e^2^*K3r^*pi^{\wedge}2 - 35/54^*C^*F^{\wedge}2^*e^2^*K2r^*pi^{\wedge}2 - 4/27^*C^*F^{\wedge}2^*e^2^*K1r^*pi^{\wedge}2 + 157/4608^*C^2^*F^{\wedge}6^*C0^*e^2^*pi^{\wedge}4 + 3/256^*C^2^*F^{\wedge}2^*e^2^*pi^{\wedge}4)
\end{aligned}$$

$$\begin{aligned}
& + \text{mpp2}^2 * \text{mkp2} * (- 3/256 * \text{mL}(1,6,5) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4} * \text{mko2}^{-1}} - \\
& 1/256 * \text{mL}(2,7,4) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4} * \text{mko2}^{-1}} - 5/512 * \text{mL}(4,3,5) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{pi}^{-4} * \text{mpo2}^{-1}} + 1/512 * \text{mL}(4,8,5) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{me2}^{-1} * \text{pi}^{-4}} - \\
& 5/512 * \text{mL}(6,3,7) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4} * \text{mpo2}^{-1}} + 1/512 * \text{mL}(6,8,7) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{me2}^{-1} * \text{pi}^{-4}} - 1/324 * \text{mL}(8,3,8) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4} * \text{mpo2}^{-1}} \\
&)
\end{aligned}$$

$$\begin{aligned}
& + \text{mpp2}^3 * (- 1/16 * \text{mL}(1,3,2) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4} * \text{mpo2}^{-1}} - 1/256 * \text{mL}(1,6,5) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{pi}^{-4} * \text{mko2}^{-1}} - 1/256 * \text{mL}(2,7,4) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4} * \text{mko2}^{-1}});
\end{aligned}$$

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$$\begin{aligned}
& + \text{mpp2}^{-1} * \text{mkp2}^3 * (- 1/128 * \text{mL}(6,1,8) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}})
\end{aligned}$$

$$\begin{aligned}
& + \text{mkp2} * (- 1/1024 * \ln(1) * \text{mm}(1) * \text{mm}(3) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - 1/1536 * \ln(1) * \text{mm}(1) * \text{mm}(6) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{pi}^{-4}} + 17/3072 * \ln(1) * \text{mm}(1) * \text{mm}(8) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - \\
& 1/512 * \ln(3) * \text{mm}(1) * \text{mm}(3) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} + 1/384 * \ln(3) * \text{mm}(3) * \text{mm}(4) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{pi}^{-4}} + 1/512 * \ln(3) * \text{mm}(3) * \text{mm}(6) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - 1/384 * \ln(3) * \text{mm}(3) * \text{mm}(8) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - 1/16 * \ln(4) * \text{mm}(4) * \text{mm}(5) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} + 1/512 * \ln(4) * \text{mm}(4) * \text{mm}(6) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - 1/384 * \ln(4) * \text{mm}(4) * \text{mm}(8) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - 1/512 * \ln(4) * \text{mm}(1) * \text{mm}(6) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - 1/1024 * \ln(6) * \text{mm}(3) * \text{mm}(6) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} + \\
& 17/3072 * \ln(6) * \text{mm}(6) * \text{mm}(8) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - 1/512 * \ln(7) * \text{mm}(4) * \text{mm}(7) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{pi}^{-4}} + 1/512 * \ln(7) * \text{mm}(6) * \text{mm}(7) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - 1/1024 * \text{mL}(4,3,3) * \text{mm}(3) * \text{mm}(4) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - 3/512 * \text{mL}(4,3,8) * \text{mm}(3) * \text{mm}(4) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - \\
& 181/9216 * \text{mL}(4,8,8) * \text{mm}(4) * \text{mm}(8) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} + 39/4096 * \text{mm}(1) * \text{mm}(3) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{pi}^{-4}} + 13/1536 * \text{mm}(1) * \text{mm}(6) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - 221/12288 * \text{mm}(1) * \text{mm}(8) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - 13/1536 * \text{mm}(3) * \text{mm}(4) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - 13/4096 * \text{mm}(3) * \text{mm}(6) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{pi}^{-4}} + 13/1536 * \text{mm}(3) * \text{mm}(8) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} + 13/64 * \text{mm}(4) * \text{mm}(5) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - 13/2048 * \text{mm}(4) * \text{mm}(6) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} + 13/2048 * \text{mm}(4) * \text{mm}(7) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{pi}^{-4}} + 13/1536 * \text{mm}(4) * \text{mm}(8) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - 13/2048 * \text{mm}(6) * \text{mm}(7) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - 221/12288 * \text{mm}(6) * \text{mm}(8) * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} - 2 * \text{HH1b}(1,3,6, \text{plext.plext}) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^2 + 4 * \text{HH1b}(2,1,4, \text{plext.plext}) * \text{F}^{-6} * \text{C0} * \text{e}^2 + 2 * \text{HH1b}(3,1,6, \text{plext.plext}) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^2 - 2 * \text{HH1b}(4,3,8, \text{plext.plext}) * \text{F}^{-6} * \text{C0} * \text{e}^2 - 16 * \text{HH1b}(4,4,5, \text{plext.plext}) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^2 - 2 * \text{HH1b}(4,8,8, \text{plext.plext}) * \text{F}^{-6} * \text{C0} * \text{e}^2 + 2 * \text{HH1b}(6,1,8, \text{plext.plext}) * \text{F}^{-6} * \\
& \text{C0} * \text{e}^2 + 8/3 * \text{Hb}(\text{eps}, 4,4,4, \text{plext.plext}) * \text{F}^{-2} * \text{e}^2)
\end{aligned}$$

$$\begin{aligned}
& + \text{mkp2}^2 * (- 32119/221184 * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{pi}^{-4}} + 37/13824 * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{pi}^{-2}} - 68/9 * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{L8r} * \text{pi}^{-2}} - 16/9 * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{L7r} * \text{pi}^{-2}} - \\
& 124/9 * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{L6r} * \text{pi}^{-2}} + 94/27 * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{L5r} * \text{pi}^{-2}} + 768 * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{L5r} * \text{L8r}} + 1792 * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{L5r} * \text{L6r}} - 256 * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{L5r}^2} \\
& + 62/9 * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{L4r} * \text{pi}^{-2}} + 1792 * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{L4r} * \text{L8r}} + 4096 * \text{F}^{-6} * \\
& \text{C0} * \text{e}^{2 * \text{L4r} * \text{L6r}} - 1280 * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{L4r} * \text{L5r}} - 1536 * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{L4r}^2} \\
& - 11/36 * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{L3r} * \text{pi}^{-2}} - 5/3 * \text{F}^{-6} * \text{C0} * \text{e}^{2 * \text{L2r} * \text{pi}^{-2}} - 448 * \text{F}^{-6} * \\
& \text{C0} * \text{CC32} * \text{e}^2 - 192 * \text{F}^{-6} * \text{C0} * \text{CC31} * \text{e}^2 - 1536 * \text{F}^{-6} * \text{C0} * \text{CC21} * \text{e}^2 - \\
& 704 * \text{F}^{-6} * \text{C0} * \text{CC20} * \text{e}^2 - 384 * \text{F}^{-6} * \text{C0} * \text{CC19} * \text{e}^2 + 64 * \text{F}^{-6} * \text{C0} * \text{CC17} * \text{e}^2 + \\
& 128 * \text{F}^{-6} * \text{C0} * \text{CC16} * \text{e}^2 + 160 * \text{F}^{-6} * \text{C0} * \text{CC15} * \text{e}^2 + 64 * \text{F}^{-6} * \text{C0} * \text{CC14} * \text{e}^2 \\
& + 192 * \text{F}^{-6} * \text{C0} * \text{CC13} * \text{e}^2 + 64 * \text{F}^{-6} * \text{C0} * \text{CC12} * \text{e}^2 - 127/2048 * \text{F}^{-2} * \text{e}^{2 * \text{pi}^{-4}} \\
& - 83/13824 * \text{F}^{-2} * \text{e}^{2 * \text{pi}^{-2}} + 2/81 * \text{F}^{-2} * \text{e}^{2 * \text{K10r} * \text{pi}^{-2}} + 2/81 * \text{F}^{-6} *
\end{aligned}$$

$$\begin{aligned}
& 2^*e^{2^*K9r^*pi^{-2}} + 2/27^*F^{-2^*e^{2^*K8r^*pi^{-2}}} + 2/27^*F^{-2^*e^{2^*K7r^*pi^{-2}}} \\
& - 1/27^*F^{-2^*e^{2^*K6r^*pi^{-2}}} - 1/27^*F^{-2^*e^{2^*K5r^*pi^{-2}}} - 1/54^*F^{-2^*e^{2^*K4r^*pi^{-2}}} \\
& + 1/27^*F^{-2^*e^{2^*K3r^*pi^{-2}}} - 2/27^*F^{-2^*e^{2^*K2r^*pi^{-2}}} - 2/27^*F^{-2^*e^{2^*K1r^*pi^{-2}}} \\
& + F^{-2^*e^{2^*L8r^*pi^{-2}}} - 320/9^*F^{-2^*e^{2^*L8r^*K6r}} - 320/9^*F^{-2^*e^{2^*L8r^*K5r}} \\
& - 128/3^*F^{-2^*e^{2^*L8r^*K2r}} - 128/3^*F^{-2^*e^{2^*L8r^*K1r}} + 2^*F^{-2^*e^{2^*L6r^*pi^{-2}}} \\
& - 640/9^*F^{-2^*e^{2^*L6r^*K6r}} - 640/9^*F^{-2^*e^{2^*L6r^*K5r}} - 256/3^*F^{-2^*e^{2^*L6r^*K2r}} \\
& - 256/3^*F^{-2^*e^{2^*L6r^*K1r}} - 1/2^*F^{-2^*e^{2^*L5r^*pi^{-2}}} - 64^*F^{-2^*e^{2^*L5r^*K11r}} \\
& - 640/9^*F^{-2^*e^{2^*L5r^*K10r}} - 64/9^*F^{-2^*e^{2^*L5r^*K9r}} - 256/3^*F^{-2^*e^{2^*L5r^*K8r}} \\
& - 64/3^*F^{-2^*e^{2^*L5r^*K7r}} + 320/9^*F^{-2^*e^{2^*L5r^*K6r}} + 320/9^*F^{-2^*e^{2^*L5r^*K5r}} \\
& + 128/3^*F^{-2^*e^{2^*L5r^*K2r}} + 128/3^*F^{-2^*e^{2^*L5r^*K1r}} - F^{-2^*e^{2^*L4r^*pi^{-2}}} \\
& - 128^*F^{-2^*e^{2^*L4r^*K11r}} - 1280/9^*F^{-2^*e^{2^*L4r^*K10r}} - 128/9^*F^{-2^*e^{2^*L4r^*K9r}} \\
& - 512/3^*F^{-2^*e^{2^*L4r^*K8r}} - 128/3^*F^{-2^*e^{2^*L4r^*K7r}} + 640/9^*F^{-2^*e^{2^*L4r^*K6r}} \\
& + 640/9^*F^{-2^*e^{2^*L4r^*K5r}} + 256/3^*F^{-2^*e^{2^*L4r^*K2r}} + 256/3^*F^{-2^*e^{2^*L4r^*K1r}} \\
& - 7/3072^*ln(1)^2^*F^{-6^*C0^*e^{2^*pi^{-4}}} - 11/3072^*ln(1)^2^*F^{-6^*C0^*e^{2^*pi^{-4}}} \\
& - 1/1536^*ln(1)^2^*F^{-2^*e^{2^*pi^{-4}}} - 1/512^*ln(1)^*ln(3)^*F^{-6^*C0^*e^{2^*pi^{-4}}} \\
& + 1/768^*ln(1)^*ln(4)^*F^{-2^*e^{2^*pi^{-4}}} - 17/3072^*ln(1)^*ln(6)^*F^{-6^*C0^*e^{2^*pi^{-4}}} \\
& - 1/384^*ln(1)^*ln(8)^*F^{-6^*C0^*e^{2^*pi^{-4}}} + 151/12288^*ln(3)^*F^{-6^*C0^*e^{2^*pi^{-4}}} \\
& - 1/8192^*ln(3)^2^*F^{-6^*C0^*e^{2^*pi^{-4}}} + 7/9216^*ln(3)^*ln(4)^*F^{-6^*C0^*e^{2^*pi^{-4}}} \\
& - 1/9216^*ln(3)^*ln(6)^*F^{-6^*C0^*e^{2^*pi^{-4}}} - 5/12288^*ln(3)^*ln(8)^*F^{-6^*C0^*e^{2^*pi^{-4}}} \\
& + 541/27648^*ln(4)^*F^{-6^*C0^*e^{2^*pi^{-4}}} + 4^*ln(4)^*F^{-6^*C0^*e^{2^*L8r^*pi^{-2}}} \\
& + 8^*ln(4)^*F^{-6^*C0^*e^{2^*L6r^*pi^{-2}}} + 4^*ln(4)^*F^{-6^*C0^*e^{2^*L5r^*pi^{-2}}} \\
& + 8^*ln(4)^*F^{-6^*C0^*e^{2^*L4r^*pi^{-2}}} - 433/4608^*ln(4)^*F^{-2^*e^{2^*pi^{-4}}} \\
& + 1/384^*ln(4)^*F^{-2^*e^{2^*pi^{-2}}} - 3^*ln(4)^*F^{-2^*e^{2^*K11r^*pi^{-2}}} - 3^*ln(4)^*F^{-2^*e^{2^*K10r^*pi^{-2}}} \\
& - 3^*ln(4)^*F^{-2^*e^{2^*K8r^*pi^{-2}}} + ln(4)^*F^{-2^*e^{2^*K6r^*pi^{-2}}} + 1/4^*ln(4)^*F^{-2^*e^{2^*K4r^*pi^{-2}}} \\
& + 1/2^*ln(4)^*F^{-2^*e^{2^*K3r^*pi^{-2}}} + ln(4)^*F^{-2^*e^{2^*K2r^*pi^{-2}}} - 1/2^*ln(4)^*F^{-2^*e^{2^*L9r^*pi^{-2}}} \\
& - 3^*ln(4)^*F^{-2^*e^{2^*L8r^*pi^{-2}}} - 6^*ln(4)^*F^{-2^*e^{2^*L6r^*pi^{-2}}} + 3/2^*ln(4)^*F^{-2^*e^{2^*L5r^*pi^{-2}}} \\
& + 3^*ln(4)^*F^{-2^*e^{2^*L4r^*pi^{-2}}} + 107/4608^*ln(4)^2^*F^{-6^*C0^*e^{2^*pi^{-4}}} - 7/288^*ln(4)^2^*F^{-2^*e^{2^*pi^{-4}}} \\
& + 1/64^*ln(4)^3^*F^{-2^*e^{2^*pi^{-4}}} - 3/64^*ln(4)^2^*C^*F^{-2^*e^{2^*pi^{-4}}} + 1/32^*ln(4)^*ln(5)^*F^{-6^*C0^*e^{2^*pi^{-4}}} \\
& - 1/512^*ln(4)^*ln(7)^*F^{-6^*C0^*e^{2^*pi^{-4}}} - 197/9216^*ln(4)^*ln(8)^*F^{-6^*C0^*e^{2^*pi^{-4}}} \\
& - 1/192^*ln(4)^*ln(8)^*F^{-2^*e^{2^*pi^{-4}}} + 113/1152^*ln(4)^*C^*F^{-2^*e^{2^*pi^{-4}}} \\
& + 3/64^*ln(4)^*C^2^*F^{-2^*e^{2^*pi^{-4}}} - 5/256^*ln(5)^*F^{-6^*C0^*e^{2^*pi^{-4}}} + 1/64^*ln(5)^2^*F^{-6^*C0^*e^{2^*pi^{-4}}} \\
& + 23/3072^*ln(6)^*F^{-6^*C0^*e^{2^*pi^{-4}}} + 6^*ln(6)^*F^{-6^*C0^*e^{2^*L8r^*pi^{-2}}} \\
& + 12^*ln(6)^*F^{-6^*C0^*e^{2^*L6r^*pi^{-2}}} - 5/2^*ln(6)^*F^{-6^*C0^*e^{2^*L5r^*pi^{-2}}} \\
& - 10^*ln(6)^*F^{-6^*C0^*e^{2^*L4r^*pi^{-2}}} + 5/2^*ln(6)^*F^{-6^*C0^*e^{2^*L3r^*pi^{-2}}} \\
& + 2^*ln(6)^*F^{-6^*C0^*e^{2^*L2r^*pi^{-2}}} + 8^*ln(6)^*F^{-6^*C0^*e^{2^*L1r^*pi^{-2}}} \\
& - 5/768^*ln(6)^*F^{-2^*e^{2^*pi^{-4}}} - 1/4^*ln(6)^*F^{-2^*e^{2^*K11r^*pi^{-2}}} \\
& - 1/4^*ln(6)^*F^{-2^*e^{2^*K10r^*pi^{-2}}} - 1/2^*ln(6)^*F^{-2^*e^{2^*K8r^*pi^{-2}}} \\
& + 5/24^*ln(6)^*F^{-2^*e^{2^*K6r^*pi^{-2}}} - 1/24^*ln(6)^*F^{-2^*e^{2^*K5r^*pi^{-2}}} \\
& + 1/2^*ln(6)^*F^{-2^*e^{2^*K2r^*pi^{-2}}} + 1/1024^*ln(6)^2^*F^{-6^*C0^*e^{2^*pi^{-4}}} \\
& - 1/512^*ln(6)^*ln(7)^*F^{-6^*C0^*e^{2^*pi^{-4}}} - 473/27648^*ln(6)^*ln(8)^*F^{-6^*C0^*e^{2^*pi^{-4}}} \\
& - 1/512^*ln(7)^*F^{-6^*C0^*e^{2^*pi^{-4}}} - 1/512^*ln(7)^2^*F^{-6^*C0^*e^{2^*pi^{-4}}} \\
& + 1369/331776^*ln(8)^*F^{-6^*C0^*e^{2^*pi^{-4}}} + 4/3^*ln(8)^*F^{-6^*C0^*e^{2^*L7r^*pi^{-2}}} \\
& - 8/3^*ln(8)^*F^{-6^*C0^*e^{2^*L6r^*pi^{-2}}} + 10/9^*ln(8)^*F^{-
\end{aligned}$$

$$\begin{aligned}
& 6^*C0^*e^2*L5r*pi^-2 + 14/9*ln(8)*F^-6*C0^*e^2*L4r*pi^-2 + 7/3*ln(8)*F^-6*C0^*e^2*L3r*pi^-2 + 4/3*ln(8)*F^-6*C0^*e^2*L2r*pi^-2 + 16/3*ln(8)*F^-6*C0^*e^2*L1r*pi^-2 - 17/1152*ln(8)*F^-2*e^2*pi^-4 - 4/9*ln(8)*F^-2*e^2*K11r*pi^-2 - 32/81*ln(8)*F^-2*e^2*K10r*pi^-2 + 4/81*ln(8)*F^-2*e^2*K9r*pi^-2 - 8/27*ln(8)*F^-2*e^2*K8r*pi^-2 + 4/27*ln(8)*F^-2*e^2*K7r*pi^-2 + 17/81*ln(8)*F^-2*e^2*K6r*pi^-2 - 13/81*ln(8)*F^-2*e^2*K5r*pi^-2 + 5/54*ln(8)*F^-2*e^2*K4r*pi^-2 - 5/27*ln(8)*F^-2*e^2*K3r*pi^-2 + 2/9*ln(8)*F^-2*e^2*K2r*pi^-2 - 2/9*ln(8)*F^-2*e^2*K1r*pi^-2 + 2429/221184*ln(8)^2*F^-6*C0^*e^2*pi^-4 + 1/384*mL(1,4,1)*F^-2*e^2*pi^-4 - 1/128*mL(3,1,6)*F^-6*C0^*e^2*pi^-4 + 1/2048*mL(3,4,3)*F^-6*C0^*e^2*pi^-4 + 3/1024*mL(3,4,8)*F^-6*C0^*e^2*pi^-4 - 3/2048*mL(4,3,3)*F^-6*C0^*e^2*pi^-4 - 55/3072*mL(4,3,8)*F^-6*C0^*e^2*pi^-4 + 1/128*mL(4,7,6)*F^-6*C0^*e^2*pi^-4 - 181/6144*mL(4,8,8)*F^-6*C0^*e^2*pi^-4 + 19/1536*mL(6,1,8)*F^-6*C0^*e^2*pi^-4 - 2555/165888*mL(8,4,8)*F^-6*C0^*e^2*pi^-4 + 823/18432*C^2*F^-6*C0^*e^2*pi^-4 + 18*C^2*F^-6*C0^*e^2*L8r*pi^-2 + 4*C^2*F^-6*C0^*e^2*L7r*pi^-2 + 32*C^2*F^-6*C0^*e^2*L6r*pi^-2 - 115/6*C^2*F^-6*C0^*e^2*L5r*pi^-2 - 39*C^2*F^-6*C0^*e^2*L4r*pi^-2 - 145/27*C^2*F^-6*C0^*e^2*L3r*pi^-2 - 49/9*C^2*F^-6*C0^*e^2*L2r*pi^-2 - 14*C^2*F^-6*C0^*e^2*L1r*pi^-2 + 203/9216*C^2*F^-2*e^2*pi^-4 - 1/384*C^2*F^-2*e^2*pi^-2 + 89/18*C^2*F^-2*e^2*K11r*pi^-2 + 1631/324*C^2*F^-2*e^2*K10r*pi^-2 + 29/324*C^2*F^-2*e^2*K9r*pi^-2 + 295/54*C^2*F^-2*e^2*K8r*pi^-2 + 29/108*C^2*F^-2*e^2*K7r*pi^-2 - 16/9*C^2*F^-2*e^2*K6r*pi^-2 - 17/108*C^2*F^-2*e^2*K5r*pi^-2 - 29/108*C^2*F^-2*e^2*K4r*pi^-2 - 25/54*C^2*F^-2*e^2*K3r*pi^-2 - 239/108*C^2*F^-2*e^2*K2r*pi^-2 - 29/108*C^2*F^-2*e^2*K1r*pi^-2 + 1/2*C^2*F^-2*e^2*L9r*pi^-2 + 3/2*C^2*F^-2*e^2*L8r*pi^-2 + 3*C^2*F^-2*e^2*L6r*pi^-2 + 3/4*C^2*F^-2*e^2*L5r*pi^-2 + 3/2*C^2*F^-2*e^2*L4r*pi^-2 + 119/3072*C^2*F^-6*C0^*e^2*pi^-4 - 233/2304*C^2*F^-2*e^2*pi^-4 - 1/64*C^3*F^-2*e^2*pi^-4 - 1/36*Ab(eps,2,4)*F^-2*e^2*pi^-2 + 55/72*Bb(eps,4,0,pl1ext.pl1ext)*F^-2*e^2*pi^-2) \\
& + mkp2^3 * (+ 1/1152*ln(3)*ln(4)*den(mkp2 - mpp2)*F^-6*C0^*e^2*pi^-4 - 1/1152*ln(3)*ln(6)*den(mkp2 - mpp2)*F^-6*C0^*e^2*pi^-4 - 1/96*ln(4)*ln(8)*den(mkp2 - mpp2)*F^-6*C0^*e^2*pi^-4 + 13/864*ln(6)*ln(8)*den(mkp2 - mpp2)*F^-6*C0^*e^2*pi^-4 - 4/81*ln(8)*den(mkp2 - mpp2)*F^-2*e^2*K6r*pi^-2 - 4/81*ln(8)*den(mkp2 - mpp2)*F^-2*e^2*K5r*pi^-2 - 2/27*ln(8)*den(mkp2 - mpp2)*F^-2*e^2*K4r*pi^-2 + 4/27*ln(8)*den(mkp2 - mpp2)*F^-2*e^2*K3r*pi^-2 + 1/384*mL(4,3,8)*F^-6*C0^*e^2*pi^-4*mpo2^-1 - 3/256*mL(4,7,6)*F^-6*C0^*e^2*pi^-4*mko2^-1) \\
& + mpp2 * (+ 4/3*Hb(eps,4,1,1,pl1ext.pl1ext)*F^-2*e^2) \\
& + mpp2*mkp2 * (+ 199/55296*F^-6*C0^*e^2*pi^-4 - 7/4608*F^-6*C0^*e^2*pi^-2 + 20/9*F^-6*C0^*e^2*L8r*pi^-2 + 32/9*F^-6*C0^*e^2*L7r*pi^-2 - 76/9*F^-6*C0^*e^2*L6r*pi^-2 - 14/27*F^-6*C0^*e^2*L5r*pi^-2 + 512*F^-6*C0^*e^2*L5r*L6r + 38/9*F^-6*C0^*e^2*L4r*pi^-2 + 512*F^-6*C0^*e^2*L4r*L8r + 2560*F^-6*C0^*e^2*L4r*L6r - 256*F^-6*C0^*e^2*L4r*L5r - 768*F^-6*C0^*e^2*L4r^2 - 1/9*F^-6*C0^*e^2*L3r*pi^-2 - 1/3*F^-6*C0^*e^2*L2r*pi^-2 -
\end{aligned}$$

$$\begin{aligned}
& 128 * F^{-6} * C0 * CC32 * e^{-2} - 960 * F^{-6} * C0 * CC21 * e^{-2} - 64 * F^{-6} * C0 * CC20 * e^{-2} + \\
& 192 * F^{-6} * C0 * CC19 * e^{-2} + 64 * F^{-6} * C0 * CC16 * e^{-2} + 32 * F^{-6} * C0 * CC15 * e^{-2} - \\
& 97 / 6144 * F^{-2} * e^{-2} * \pi^{-4} - 35 / 27648 * F^{-2} * e^{-2} * \pi^{-2} + 1 / 324 * F^{-2} * e^{-2} * K10r * \pi^{-2} - \\
& 2 + 1 / 324 * F^{-2} * e^{-2} * K9r * \pi^{-2} - 1 / 54 * F^{-2} * e^{-2} * K8r * \pi^{-2} - 1 / 54 * F^{-2} * e^{-2} * K7r * \pi^{-2} + \\
& 1 / 108 * F^{-2} * e^{-2} * K6r * \pi^{-2} + 1 / 108 * F^{-2} * e^{-2} * K5r * \pi^{-2} + 1 / 216 * F^{-2} * e^{-2} * K4r * \pi^{-2} - \\
& 1 / 108 * F^{-2} * e^{-2} * K3r * \pi^{-2} + 1 / 54 * F^{-2} * e^{-2} * K2r * \pi^{-2} + 1 / 54 * F^{-2} * e^{-2} * K1r * \pi^{-2} + F^{-2} * e^{-2} * L6r * \pi^{-2} - \\
& 320 / 9 * F^{-2} * e^{-2} * L6r * K6r - 320 / 9 * F^{-2} * e^{-2} * L6r * K5r - 128 / 3 * F^{-2} * e^{-2} * L6r * K2r - \\
& 128 / 3 * F^{-2} * e^{-2} * L6r * K1r - 32 / 3 * F^{-2} * e^{-2} * L5r * K10r - 32 / 3 * F^{-2} * e^{-2} * L5r * K9r - \\
& 32 * F^{-2} * e^{-2} * L5r * K8r - 1 / 2 * F^{-2} * e^{-2} * L4r * \pi^{-2} - 64 * F^{-2} * e^{-2} * L4r * K11r - \\
& 832 / 9 * F^{-2} * e^{-2} * L4r * K10r - 256 / 9 * F^{-2} * e^{-2} * L4r * K9r - 448 / 3 * F^{-2} * e^{-2} * L4r * K8r - \\
& 64 / 3 * F^{-2} * e^{-2} * L4r * K7r + 320 / 9 * F^{-2} * e^{-2} * L4r * K6r + 320 / 9 * F^{-2} * e^{-2} * L4r * K5r + \\
& 128 / 3 * F^{-2} * e^{-2} * L4r * K2r + 128 / 3 * F^{-2} * e^{-2} * L4r * K1r + 155 / 9216 * \ln(1) * F^{-6} * C0 * e^{-2} * \pi^{-4} + 2 * \ln(1) * F^{-6} * C0 * e^{-2} * L8r * \pi^{-2} + \\
& 1 / 2 * \ln(1) * F^{-6} * C0 * e^{-2} * L5r * \pi^{-2} + 4 * \ln(1) * F^{-6} * C0 * e^{-2} * L4r * \pi^{-2} - 11 / 384 * \ln(1) * F^{-2} * e^{-2} * \pi^{-4} + 1 / 2304 * \ln(1) * F^{-2} * e^{-2} * \pi^{-2} - \\
& 3 / 4 * \ln(1) * F^{-2} * e^{-2} * K11r * \pi^{-2} - 3 / 4 * \ln(1) * F^{-2} * e^{-2} * K10r * \pi^{-2} - \ln(1) * F^{-2} * e^{-2} * K8r * \pi^{-2} + 7 / 24 * \ln(1) * F^{-2} * e^{-2} * K6r * \pi^{-2} + 1 / 24 * \ln(1) * F^{-2} * e^{-2} * K5r * \pi^{-2} + 1 / 2 * \ln(1) * F^{-2} * e^{-2} * K2r * \pi^{-2} - 11 / 1024 * \ln(1) ^2 * F^{-6} * C0 * e^{-2} * \pi^{-4} + 7 / 1536 * \ln(1) ^2 * F^{-2} * e^{-2} * \pi^{-4} + 1 / 384 * \ln(1) ^2 * \ln(4) * F^{-2} * e^{-2} * \pi^{-4} - 1 / 384 * \ln(1) ^2 * C * F^{-2} * e^{-2} * \pi^{-4} - 1 / 1024 * \ln(1) * \ln(3) * F^{-6} * C0 * e^{-2} * \pi^{-4} - 1 / 512 * \ln(1) * \ln(4) * F^{-6} * C0 * e^{-2} * \pi^{-4} + 1 / 384 * \ln(1) * \ln(4) * F^{-2} * e^{-2} * \pi^{-4} + 1 / 384 * \ln(1) * \ln(4) ^2 * F^{-2} * e^{-2} * \pi^{-4} - 1 / 96 * \ln(1) * \ln(4) * C * F^{-2} * e^{-2} * \pi^{-4} - 1 / 192 * \ln(1) * \ln(6) * F^{-6} * C0 * e^{-2} * \pi^{-4} - 1 / 768 * \ln(1) * \ln(8) * F^{-6} * C0 * e^{-2} * \pi^{-4} + 1 / 128 * \ln(1) * C ^2 * F^{-2} * e^{-2} * \pi^{-4} - 1 / 512 * \ln(2) * F^{-6} * C0 * e^{-2} * \pi^{-4} + 19 / 18432 * \ln(3) * F^{-6} * C0 * e^{-2} * \pi^{-4} + 2 * \ln(3) * F^{-6} * C0 * e^{-2} * L8r * \pi^{-2} + 4 * \ln(3) * F^{-6} * C0 * e^{-2} * L6r * \pi^{-2} - \ln(3) * F^{-6} * C0 * e^{-2} * L5r * \pi^{-2} - 4 * \ln(3) * F^{-6} * C0 * e^{-2} * L4r * \pi^{-2} + 5 / 4 * \ln(3) * F^{-6} * C0 * e^{-2} * L3r * \pi^{-2} + \ln(3) * F^{-6} * C0 * e^{-2} * L2r * \pi^{-2} + 4 * \ln(3) * F^{-6} * C0 * e^{-2} * L1r * \pi^{-2} - 5 / 1536 * \ln(3) * F^{-2} * e^{-2} * \pi^{-4} + 7 / 2048 * \ln(3) ^2 * F^{-6} * C0 * e^{-2} * \pi^{-4} - 5 / 4608 * \ln(3) * \ln(4) * F^{-6} * C0 * e^{-2} * \pi^{-4} + 1 / 3072 * \ln(3) * \ln(6) * F^{-6} * C0 * e^{-2} * \pi^{-4} + 47 / 9216 * \ln(3) * \ln(8) * F^{-6} * C0 * e^{-2} * \pi^{-4} - 13 / 27648 * \ln(4) * F^{-6} * C0 * e^{-2} * \pi^{-4} - 4 * \ln(4) * F^{-6} * C0 * e^{-2} * L6r * \pi^{-2} + 6 * \ln(4) * F^{-6} * C0 * e^{-2} * L4r * \pi^{-2} + 31 / 4608 * \ln(4) * F^{-2} * e^{-2} * \pi^{-4} + 1 / 2304 * \ln(4) * F^{-2} * e^{-2} * \pi^{-2} - 1 / 2 * \ln(4) * F^{-2} * e^{-2} * K8r * \pi^{-2} - 3 * \ln(4) * F^{-2} * e^{-2} * L6r * \pi^{-2} + 3 / 2 * \ln(4) * F^{-2} * e^{-2} * L4r * \pi^{-2} - 1 / 1024 * \ln(4) ^2 * F^{-6} * C0 * e^{-2} * \pi^{-4} - 35 / 4608 * \ln(4) ^2 * F^{-2} * e^{-2} * \pi^{-4} - 1 / 384 * \ln(4) ^2 * C * F^{-2} * e^{-2} * \pi^{-4} + 5 / 1536 * \ln(4) * \ln(8) * F^{-6} * C0 * e^{-2} * \pi^{-4} + 1 / 768 * \ln(4) * \ln(8) * F^{-2} * e^{-2} * \pi^{-4} + 29 / 2304 * \ln(4) * C * F^{-2} * e^{-2} * \pi^{-4} + 1 / 128 * \ln(4) * C ^2 * F^{-2} * e^{-2} * \pi^{-4} + 1 / 256 * \ln(6) * F^{-6} * C0 * e^{-2} * \pi^{-4} + 11 / 3456 * \ln(6) * \ln(8) * F^{-6} * C0 * e^{-2} * \pi^{-4} + 785 / 165888 * \ln(8) * F^{-6} * C0 * e^{-2} * \pi^{-4} - 2 / 3 * \ln(8) * F^{-6} * C0 * e^{-2} * L8r * \pi^{-2} - 4 * \ln(8) * F^{-6} * C0 * e^{-2} * L6r * \pi^{-2} - 2 / 9 * \ln(8) * F^{-6} * C0 * e^{-2} * L5r * \pi^{-2} + 26 / 9 * \ln(8) * F^{-6} * C0 * e^{-2} * L4r * \pi^{-2} - 7 / 12 * \ln(8) * F^{-6} * C0 * e^{-2} * L3r * \pi^{-2} - 1 / 3 * \ln(8) * F^{-6} * C0 * e^{-2} * L2r * \pi^{-2} - 4 / 3 * \ln(8) * F^{-6} * C0 * e^{-2} * L1r * \pi^{-2} + 17 / 4608 * \ln(8) * F^{-2} * e^{-2} * \pi^{-4} + 5 / 18 * \ln(8) * F^{-2} * e^{-2} * K11r * \pi^{-2} + 49 / 162 * \ln(8) * F^{-2} * e^{-2} * K10r * \pi^{-2} + 2 / 81 * \ln(8) * F^{-2} * e^{-2} * K9r * \pi^{-2} + 5 / 27 * \ln(8) * F^{-2} * e^{-2} * K8r * \pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2 - 1/27*\ln(8)*F^{-2}*e^{2*K7r*\pi^{-2}} - 5/36*\ln(8)*F^{-2}*e^{2*K6r*\pi^{-2}} \\
& + 5/108*\ln(8)*F^{-2}*e^{2*K5r*\pi^{-2}} - 1/18*\ln(8)*F^{-2}*e^{2*K4r*\pi^{-2}} \\
& + 1/9*\ln(8)*F^{-2}*e^{2*K3r*\pi^{-2}} - 1/6*\ln(8)*F^{-2}*e^{2*K2r*\pi^{-2}} + \\
& 1/18*\ln(8)*F^{-2}*e^{2*K1r*\pi^{-2}} - 133/18432*\ln(8)^2*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 1/128*mL(1,3,6)*F^{-6}*C0*e^{2*\pi^{-4}} - 7/384*mL(1,4,1)*F^{-2}*e^{2*\pi^{-4}} - \\
& 1/256*mL(1,6,3)*F^{-6}*C0*e^{2*\pi^{-4}} + 3/256*mL(1,6,8)*F^{-6}*C0*e^{2*\pi^{-4}} - \\
& 1/256*mL(3,1,6)*F^{-6}*C0*e^{2*\pi^{-4}} - 1/1024*mL(3,4,3)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 3/512*mL(3,4,8)*F^{-6}*C0*e^{2*\pi^{-4}} + 1/192*mL(4,3,8)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 1/192*mL(6,1,8)*F^{-6}*C0*e^{2*\pi^{-4}} + 383/82944*mL(8,4,8)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 179/18432*C*F^{-6}*C0*e^{2*\pi^{-4}} - 2*C*F^{-6}*C0*e^{2*L8r*\pi^{-2}} - \\
& 8*C*F^{-6}*C0*e^{2*L7r*\pi^{-2}} + 22*C*F^{-6}*C0*e^{2*L6r*\pi^{-2}} - 7/6*C*F^{-6}*C0*e^{2*L5r*\pi^{-2}} \\
& - 57/2*C*F^{-6}*C0*e^{2*L4r*\pi^{-2}} - 49/54*C*F^{-6}*C0*e^{2*L3r*\pi^{-2}} - 14/9*C*F^{-6}*C0*e^{2*L2r*\pi^{-2}} \\
& - 8/3*C*F^{-6}*C0*e^{2*L1r*\pi^{-2}} + 73/9216*C*F^{-2}*e^{2*\pi^{-4}} - 1/1152*C*F^{-2}*e^{2*\pi^{-2}} + 13/18*C*F^{-2}*e^{2*K11r*\pi^{-2}} \\
& + 581/648*C*F^{-2}*e^{2*K10r*\pi^{-2}} + 113/648*C*F^{-2}*e^{2*K9r*\pi^{-2}} + 491/216*C*F^{-2}*e^{2*K8r*\pi^{-2}} + 13/108*C*F^{-2}*e^{2*K7r*\pi^{-2}} \\
& - 7/36*C*F^{-2}*e^{2*K6r*\pi^{-2}} - 7/54*C*F^{-2}*e^{2*K5r*\pi^{-2}} + 2/27*C*F^{-2}*e^{2*K4r*\pi^{-2}} - 4/27*C*F^{-2}*e^{2*K3r*\pi^{-2}} - 43/108*C*F^{-2}*e^{2*K2r*\pi^{-2}} \\
& - 13/108*C*F^{-2}*e^{2*K1r*\pi^{-2}} + 3/2*C*F^{-2}*e^{2*L6r*\pi^{-2}} + 3/4*C*F^{-2}*e^{2*L4r*\pi^{-2}} - 1/9216*C^2*F^{-6}*C0*e^{2*\pi^{-4}} - \\
& 43/2304*C^2*F^{-2}*e^{2*\pi^{-4}} - 1/192*C^3*F^{-2}*e^{2*\pi^{-4}} + 1/144*Ab(eps,2,4)*F^{-2}*e^{2*\pi^{-2}} + 5/18*Bb(eps,4,0,pl1ext,pl2ext)*F^{-2}*e^{2*\pi^{-2}} + 4/3*Tb(eps,4,1,1,pl1ext,pl2ext)*F^{-2}*e^{2*\pi^{-2}} \\
& + mpp2^2*mkp2^2 * (+ 1/288*\ln(3)*\ln(4)*den(mkp2 - mpp2)*F^{-6}*C0*e^{2*\pi^{-4}} - 5/1152*\ln(3)*\ln(6)*den(mkp2 - mpp2)*F^{-6}*C0*e^{2*\pi^{-4}} + 1/192*\ln(4)*\ln(8)*den(mkp2 - mpp2)*F^{-6}*C0*e^{2*\pi^{-4}} - 5/576*\ln(6)*\ln(8)*den(mkp2 - mpp2)*F^{-6}*C0*e^{2*\pi^{-4}} + 1/27*\ln(8)*den(mkp2 - mpp2)*F^{-2}*e^{2*K10r*\pi^{-2}} + 1/27*\ln(8)*den(mkp2 - mpp2)*F^{-2}*e^{2*K9r*\pi^{-2}} + 1/27*\ln(8)*den(mkp2 - mpp2)*F^{-2}*e^{2*K6r*\pi^{-2}} + 1/27*\ln(8)*den(mkp2 - mpp2)*F^{-2}*e^{2*K5r*\pi^{-2}} + 1/18*\ln(8)*den(mkp2 - mpp2)*F^{-2}*e^{2*K4r*\pi^{-2}} - 1/9*\ln(8)*den(mkp2 - mpp2)*F^{-2}*e^{2*K3r*\pi^{-2}} + 1/256*mL(1,6,3)*F^{-6}*C0*e^{2*\pi^{-4}}*mko2^{-1} - 3/256*mL(1,6,8)*F^{-6}*C0*e^{2*\pi^{-4}}*mko2^{-1}) \\
& + mpp2^2 * (- 8/3*F^{-6}*C0*e^{2*L8r*\pi^{-2}} - 16/9*F^{-6}*C0*e^{2*L7r*\pi^{-2}} - 16/9*F^{-6}*C0*e^{2*L6r*\pi^{-2}} + 28/27*F^{-6}*C0*e^{2*L5r*\pi^{-2}} + 8/9*F^{-6}*C0*e^{2*L4r*\pi^{-2}} + 256*F^{-6}*C0*e^{2*L4r*L6r} - 96*F^{-6}*C0*CC21*e^2 - 96*F^{-6}*C0*CC20*e^2 - 96*F^{-6}*C0*CC19*e^2 - 7/768*F^{-2}*e^{2*\pi^{-4}} - 1/768*F^{-2}*e^{2*\pi^{-2}} - 32/3*F^{-2}*e^{2*L4r*K10r} - 32/3*F^{-2}*e^{2*L4r*K9r} - 32*F^{-2}*e^{2*L4r*K8r} + 1/1152*\ln(1)*F^{-6}*C0*e^{2*\pi^{-4}} + 2*\ln(1)*F^{-6}*C0*e^{2*L6r*\pi^{-2}} + 3/2*\ln(1)*F^{-6}*C0*e^{2*L5r*\pi^{-2}} + \ln(1)*F^{-6}*C0*e^{2*L4r*\pi^{-2}} + 19/768*\ln(1)*F^{-2}*e^{2*\pi^{-4}} + 1/2304*\ln(1)*F^{-2}*e^{2*\pi^{-2}} - 3/4*\ln(1)*F^{-2}*e^{2*K11r*\pi^{-2}} - 3/4*\ln(1)*F^{-2}*e^{2*K10r*\pi^{-2}} - 3/4*\ln(1)*F^{-2}*e^{2*K8r*\pi^{-2}} + 7/24*\ln(1)*F^{-2}*e^{2*K6r*\pi^{-2}} + 1/24*\ln(1)*F^{-2}*e^{2*K5r*\pi^{-2}} + 1/2*\ln(1)*F^{-2}*e^{2*K2r*\pi^{-2}} + 1/256*\ln(1)^2*F^{-6}*C0*e^{2*\pi^{-4}} - 5/512*\ln(1)^2*F^{-2}*e^{2*\pi^{-4}} + 1/384*\ln(1)^3*F^{-2}*e^{2*\pi^{-4}} - 1/128*\ln(1)^2*C*F^{-2}*e^{2*\pi^{-4}} - 3/512*\ln(1)*\ln(3)*F^{-2}*e^{2*\pi^{-2}})
\end{aligned}$$

$$\begin{aligned}
& 6^*C0^*e^2^*pi^4 + 5/4608^*ln(1)^*ln(8)^*F^-6^*C0^*e^2^*pi^4 + 1/32^*ln(1)^*C^*F^- \\
& 2^*e^2^*pi^4 + 1/128^*ln(1)^*C^2^*F^-2^*e^2^*pi^4 - 1/288^*ln(3)^*F^-6^*C0^*e^2^*pi^4 - \\
& 4 + ln(3)^*F^-6^*C0^*e^2^*L8r^*pi^2 + 2^*ln(3)^*F^-6^*C0^*e^2^*L6r^*pi^2 - \\
& 2 - 1/4^*ln(3)^*F^-6^*C0^*e^2^*L5r^*pi^2 - ln(3)^*F^-6^*C0^*e^2^*L4r^*pi^2 - \\
& 2 - 1/8^*ln(3)^*F^-2^*e^2^*K11r^*pi^2 - 19/144^*ln(3)^*F^-2^*e^2^*K10r^*pi^2 - \\
& 2 - 1/144^*ln(3)^*F^-2^*e^2^*K9r^*pi^2 - 1/4^*ln(3)^*F^-2^*e^2^*K8r^*pi^2 - \\
& + 11/72^*ln(3)^*F^-2^*e^2^*K6r^*pi^2 + 1/36^*ln(3)^*F^-2^*e^2^*K5r^*pi^2 - \\
& + 7/96^*ln(3)^*F^-2^*e^2^*K4r^*pi^2 - 7/48^*ln(3)^*F^-2^*e^2^*K3r^*pi^2 + \\
& 1/4^*ln(3)^*F^-2^*e^2^*K2r^*pi^2 - 1/4608^*ln(3)^*ln(6)^*F^-6^*C0^*e^2^*pi^4 - \\
& - 1/4608^*ln(3)^*ln(8)^*F^-6^*C0^*e^2^*pi^4 - 5/768^*ln(4)^*F^-2^*e^2^*pi^4 - \\
& - 1/13824^*ln(6)^*ln(8)^*F^-6^*C0^*e^2^*pi^4 - 1/10368^*ln(8)^*F^-6^*C0^*e^2^*pi^4 - \\
& 4 - 1/3^*ln(8)^*F^-6^*C0^*e^2^*L8r^*pi^2 - 4/3^*ln(8)^*F^-6^*C0^*e^2^*L7r^*pi^2 - \\
& + 2/3^*ln(8)^*F^-6^*C0^*e^2^*L6r^*pi^2 + 1/36^*ln(8)^*F^-6^*C0^*e^2^*L5r^*pi^2 - \\
& 2 - 4/9^*ln(8)^*F^-6^*C0^*e^2^*L4r^*pi^2 - 1/24^*ln(8)^*F^-2^*e^2^*K11r^*pi^2 - \\
& - 7/144^*ln(8)^*F^-2^*e^2^*K10r^*pi^2 - 1/144^*ln(8)^*F^-2^*e^2^*K9r^*pi^2 - \\
& - 1/36^*ln(8)^*F^-2^*e^2^*K8r^*pi^2 + 7/324^*ln(8)^*F^-2^*e^2^*K6r^*pi^2 - \\
& - 1/648^*ln(8)^*F^-2^*e^2^*K5r^*pi^2 + 7/864^*ln(8)^*F^-2^*e^2^*K4r^*pi^2 - \\
& - 7/432^*ln(8)^*F^-2^*e^2^*K3r^*pi^2 + 1/36^*ln(8)^*F^-2^*e^2^*K2r^*pi^2 + \\
& 7/13824^*ln(8)^2^*F^-6^*C0^*e^2^*pi^4 + 11/384^*mL(1,4,1)^*F^-2^*e^2^*pi^4 - \\
& - 1/1024^*mL(2,1,4)^*F^-6^*C0^*e^2^*pi^4 - 1/512^*mL(3,1,6)^*F^-6^*C0^*e^2^*pi^4 + \\
& + 5/5184^*mL(8,4,8)^*F^-6^*C0^*e^2^*pi^4 + 5^*C^*F^-6^*C0^*e^2^*L8r^*pi^2 + \\
& + 4^*C^*F^-6^*C0^*e^2^*L7r^*pi^2 + 3^*C^*F^-6^*C0^*e^2^*L6r^*pi^2 - 11/3^*C^*F^- \\
& 6^*C0^*e^2^*L5r^*pi^2 - 3^*C^*F^-6^*C0^*e^2^*L4r^*pi^2 - 1/48^*C^*F^-2^*e^2^*pi^4 - \\
& - 1/2304^*C^*F^-2^*e^2^*pi^2 + 11/12^*C^*F^-2^*e^2^*K11r^*pi^2 + 209/216^*C^*F^- \\
& 2^*e^2^*K10r^*pi^2 + 11/216^*C^*F^-2^*e^2^*K9r^*pi^2 + 83/72^*C^*F^- \\
& 2^*e^2^*K8r^*pi^2 - 11/24^*C^*F^-2^*e^2^*K6r^*pi^2 - 13/216^*C^*F^-2^*e^2^*K5r^*pi^2 - \\
& 2 - 5/72^*C^*F^-2^*e^2^*K4r^*pi^2 + 5/36^*C^*F^-2^*e^2^*K3r^*pi^2 - 7/9^*C^*F^- \\
& 2^*e^2^*K2r^*pi^2 - 11/512^*C^2^*F^-2^*e^2^*pi^4 - 1/384^*C^3^*F^-2^*e^2^*pi^4 - \\
& - 4/3^*Tb(eps,4,1,1,pl1ext.pl1ext)^*F^-2^*e^2^*) \\
& + mpp2^2^*mkp2^* * (+ 7/4608^*ln(3)^*ln(4)^*den(mkp2 - mpp2)^*F^-6^*C0^*e^2^*pi^4 - \\
& 4 - 11/4608^*ln(3)^*ln(6)^*den(mkp2 - mpp2)^*F^-6^*C0^*e^2^*pi^4 - 1/72^*ln(3)^*den(mkp2 \\
& - mpp2)^*F^-2^*e^2^*K10r^*pi^2 - 1/72^*ln(3)^*den(mkp2 - mpp2)^*F^-2^*e^2^*K9r^*pi^2 - \\
& 2 + 1/72^*ln(3)^*den(mkp2 - mpp2)^*F^-2^*e^2^*K6r^*pi^2 + 1/72^*ln(3)^*den(mkp2 \\
& - mpp2)^*F^-2^*e^2^*K5r^*pi^2 + 1/48^*ln(3)^*den(mkp2 - mpp2)^*F^-2^*e^2^*K4r^*pi^2 - \\
& 2 - 1/24^*ln(3)^*den(mkp2 - mpp2)^*F^-2^*e^2^*K3r^*pi^2 - 1/1536^*ln(4)^*ln(8)^*den(mkp2 \\
& - mpp2)^*F^-6^*C0^*e^2^*pi^4 + 7/4608^*ln(6)^*ln(8)^*den(mkp2 - mpp2)^*F^- \\
& 6^*C0^*e^2^*pi^4 - 1/54^*ln(8)^*den(mkp2 - mpp2)^*F^-2^*e^2^*K10r^*pi^2 - \\
& - 1/54^*ln(8)^*den(mkp2 - mpp2)^*F^-2^*e^2^*K9r^*pi^2 - 1/108^*ln(8)^*den(mkp2 - \\
& mpp2)^*F^-2^*e^2^*K6r^*pi^2 - 1/108^*ln(8)^*den(mkp2 - mpp2)^*F^-2^*e^2^*K5r^*pi^2 - \\
& 2 - 1/72^*ln(8)^*den(mkp2 - mpp2)^*F^-2^*e^2^*K4r^*pi^2 + 1/36^*ln(8)^*den(mkp2 \\
& - mpp2)^*F^-2^*e^2^*K3r^*pi^2 - 3/256^*mL(1,3,6)^*F^-6^*C0^*e^2^*pi^4^*mpo2^-1 \\
& + 1/512^*mL(1,6,3)^*F^-6^*C0^*e^2^*pi^4^*mko2^-1 - 3/512^*mL(1,6,8)^*F^- \\
& 6^*C0^*e^2^*pi^4^*mko2^-1) \\
& + mpp2^3^*mkp2^-1^* * (- 5/384^*mL(1,4,1)^*F^-2^*e^2^*pi^4)
\end{aligned}$$

$$\begin{aligned}
& + mpp2^3 * (- 1/4608*ln(3)*ln(6)*den(mkp2 - mpp2)*F^{-6}*C0*e^{2*pi^{-4}} - \\
& 1/144*ln(3)*den(mkp2 - mpp2)*F^{-2}*e^{2*K10r*pi^{-2}} - 1/144*ln(3)*den(mkp2 \\
& - mpp2)*F^{-2}*e^{2*K9r*pi^{-2}} + 1/144*ln(3)*den(mkp2 - mpp2)*F^{-2}*e^{2*K6r*pi^{-2}} + 1/144*ln(3)*den(mkp2 - mpp2)*F^{-2}*e^{2*K5r*pi^{-2}} \\
& + 1/96*ln(3)*den(mkp2 - mpp2)*F^{-2}*e^{2*K4r*pi^{-2}} - 1/48*ln(3)*den(mkp2 \\
& - mpp2)*F^{-2}*e^{2*K3r*pi^{-2}} - 1/13824*ln(6)*ln(8)*den(mkp2 - mpp2)*F^{-6}*C0*e^{2*pi^{-4}} + 1/432*ln(8)*den(mkp2 - mpp2)*F^{-2}*e^{2*K10r*pi^{-2}} + \\
& 1/432*ln(8)*den(mkp2 - mpp2)*F^{-2}*e^{2*K9r*pi^{-2}} + 1/1296*ln(8)*den(mkp2 \\
& - mpp2)*F^{-2}*e^{2*K6r*pi^{-2}} + 1/1296*ln(8)*den(mkp2 - mpp2)*F^{-2}*e^{2*K5r*pi^{-2}} + 1/864*ln(8)*den(mkp2 - mpp2)*F^{-2}*e^{2*K4r*pi^{-2}} - \\
& 1/432*ln(8)*den(mkp2 - mpp2)*F^{-2}*e^{2*K3r*pi^{-2}});
\end{aligned}$$

Neutral kaon: Mass666 =

$$\begin{aligned}
& + mpp2^{-1}*mkp2^3 * (- 1/96*mL(4,2,8)*F^{-6}*C0*e^{2*pi^{-4}}) \\
& + mkp2 * (- 9/1024*ln(2)*mm(2)*mm(3)*F^{-6}*C0*e^{2*pi^{-4}} + 11/1536*ln(2)*mm(2)*mm(4)*F^{-6}*C0*e^{2*pi^{-4}} + 17/3072*ln(2)*mm(2)*mm(8)*F^{-6}*C0*e^{2*pi^{-4}} - \\
& 1/512*ln(3)*mm(2)*mm(3)*F^{-6}*C0*e^{2*pi^{-4}} + 5/512*ln(3)*mm(3)*mm(4)*F^{-6}*C0*e^{2*pi^{-4}} - 1/192*ln(3)*mm(3)*mm(6)*F^{-6}*C0*e^{2*pi^{-4}} + 13/3072*ln(3)*mm(3)*mm(8)*F^{-6}*C0*e^{2*pi^{-4}} - \\
& 1/512*ln(4)*mm(2)*mm(4)*F^{-6}*C0*e^{2*pi^{-4}} - 1/1024*ln(4)*mm(3)*mm(4)*F^{-6}*C0*e^{2*pi^{-4}} + 1/512*ln(4)*mm(4)*mm(6)*F^{-6}*C0*e^{2*pi^{-4}} + \\
& 17/3072*ln(4)*mm(4)*mm(8)*F^{-6}*C0*e^{2*pi^{-4}} - 1/512*ln(5)*mm(4)*mm(5)*F^{-6}*C0*e^{2*pi^{-4}} + 1/512*ln(5)*mm(5)*mm(6)*F^{-6}*C0*e^{2*pi^{-4}} - 3/1024*ln(6)*mm(3)*mm(6)*F^{-6}*C0*e^{2*pi^{-4}} + \\
& 13/3072*ln(6)*mm(6)*mm(8)*F^{-6}*C0*e^{2*pi^{-4}} + 1/256*mL(4,2,3)*mm(2)*mm(4)*F^{-6}*C0*e^{2*pi^{-4}} - 3/256*mL(4,2,8)*mm(2)*mm(4)*F^{-6}*C0*e^{2*pi^{-4}} + 143/4096*mm(2)*mm(3)*F^{-6}*C0*e^{2*pi^{-4}} - 13/768*mm(2)*mm(4)*F^{-6}*C0*e^{2*pi^{-4}} - 221/12288*mm(2)*mm(8)*F^{-6}*C0*e^{2*pi^{-4}} - 117/4096*mm(3)*mm(4)*F^{-6}*C0*e^{2*pi^{-4}} + 325/12288*mm(3)*mm(6)*F^{-6}*C0*e^{2*pi^{-4}} - 169/12288*mm(3)*mm(8)*F^{-6}*C0*e^{2*pi^{-4}} + 13/2048*mm(4)*mm(5)*F^{-6}*C0*e^{2*pi^{-4}} - 13/2048*mm(4)*mm(6)*F^{-6}*C0*e^{2*pi^{-4}} - 221/12288*mm(4)*mm(8)*F^{-6}*C0*e^{2*pi^{-4}} - 13/2048*mm(5)*mm(6)*F^{-6}*C0*e^{2*pi^{-4}} - 169/12288*mm(6)*mm(8)*F^{-6}*C0*e^{2*pi^{-4}} + 4*HH1b(2,3,4,plext.plext)*F^{-6}*C0*e^2 + 4*HH1b(3,2,4,plext.plext)*F^{-6}*C0*e^2 - 2*HH1b(3,3,6,plext.plext)*F^{-6}*C0*e^2 + 4*HH1b(4,2,8,plext.plext)*F^{-6}*C0*e^2 + 2*HH1b(6,3,8,plext.plext)*F^{-6}*C0*e^2 + 5*HH1b(6,8,8,plext.plext)*F^{-6}*C0*e^2 - 3*H21b(1,2,6,plext.plext)*F^{-6}*C0*e^2 - 3*H21b(2,3,4,plext.plext)*F^{-6}*C0*e^2 - 3*H21b(3,2,4,plext.plext)*F^{-6}*C0*e^2 + 3/2*H21b(4,2,3,plext.plext)*F^{-6}*C0*e^2 - 9/2*H21b(4,2,8,plext.plext)*F^{-6}*C0*e^2 - 3*H21b(5,4,6,plext.plext)*F^{-6}*C0*e^2 - 3/8*H21b(6,3,3,plext.plext)*F^{-6}*C0*e^2 - 9/4*H21b(6,3,8,plext.plext)*F^{-6}*C0*e^2 - 27/8*H21b(6,8,8,plext.plext)*F^{-6}*C0*e^2 - 6*H21b(7,6,6,plext.plext)*F^{-6}*C0*e^2) \\
& + mkp2^2 * (+ 95/3456*F^{-6}*C0*e^{2*pi^{-4}} + 1/6144*F^{-6}*C0*e^{2*pi^{-2}} \\
& - 32/9*F^{-6}*C0*e^{2*L8r*pi^{-2}} - 16/9*F^{-6}*C0*e^{2*L7r*pi^{-2}} - 52/9*F^{-6}*C0*e^{2*L6r*pi^{-2}} + 40/27*F^{-6}*C0*e^{2*L5r*pi^{-2}} + 768*F^{-6}*C0*e^{2*L5r*L8r} \\
& + 1792*F^{-6}*C0*e^{2*L5r*L6r} - 384*F^{-6}*C0*e^{2*L5r^2} + 26/9*F^{-6}*C0*e^{2*L4r*pi^{-2}} + 1792*F^{-6}*C0*e^{2*L4r*L8r} + 4096*F^{-6}*C0*e^{2*L4r*L6r} \\
& - 1792*F^{-6}*C0*e^{2*L4r*L5r} - 2048*F^{-6}*C0*e^{2*L4r^2} - 209/216*F^{-6}*C0*e^{2*L3r*pi^{-2}} - 139/36*F^{-6}*C0*e^{2*L2r*pi^{-2}} - 3/2*F^{-6}*C0*e^{2*L1r*pi^{-2}}
\end{aligned}$$

$$\begin{aligned}
& 2 - 448F^{-6}C_0CC32e^{-2} - 192F^{-6}C_0CC31e^{-2} - 1536F^{-6}C_0CC21e^{-2} \\
& - 704F^{-6}C_0CC20e^{-2} - 384F^{-6}C_0CC19e^{-2} + 64F^{-6}C_0CC17e^{-2} \\
& + 256F^{-6}C_0CC16e^{-2} + 224F^{-6}C_0CC15e^{-2} + 128F^{-6}C_0CC14e^{-2} \\
& + 448F^{-6}C_0CC13e^{-2} + 192F^{-6}C_0CC12e^{-2} - 1/384F^{-2}e^{2\pi i-4} \\
& + 2/81F^{-2}e^{2\pi i-2} + 2/81F^{-2}e^{2\pi i-2}K_{9r}\pi^{-2} + 2/27F^{-2}e^{2\pi i-2}K_{8r}\pi^{-2} \\
& + 2/27F^{-2}e^{2\pi i-2}K_{7r}\pi^{-2} - 1/27F^{-2}e^{2\pi i-2}K_{6r}\pi^{-2} - 1/27F^{-2}e^{2\pi i-2}K_{5r}\pi^{-2} \\
& - 1/54F^{-2}e^{2\pi i-2}K_{4r}\pi^{-2} + 1/27F^{-2}e^{2\pi i-2}K_{3r}\pi^{-2} - 2/27F^{-2}e^{2\pi i-2}K_{2r}\pi^{-2} - 2/27F^{-2}e^{2\pi i-2}K_{1r}\pi^{-2} \\
& - 128/9F^{-2}e^{2\pi i-2}L_{8r}K_{6r} - 128/9F^{-2}e^{2\pi i-2}L_{8r}K_{5r} - 128/3F^{-2}e^{2\pi i-2}L_{6r}K_{6r} \\
& - 256/9F^{-2}e^{2\pi i-2}L_{6r}K_{5r} - 256/3F^{-2}e^{2\pi i-2}L_{6r}K_{2r} - 256/3F^{-2}e^{2\pi i-2}L_{6r}K_{1r} \\
& - 64/9F^{-2}e^{2\pi i-2}L_{5r}K_{10r} - 64/9F^{-2}e^{2\pi i-2}L_{5r}K_{9r} - 64/3F^{-2}e^{2\pi i-2}L_{5r}K_{8r} \\
& - 64/3F^{-2}e^{2\pi i-2}L_{5r}K_{7r} + 128/9F^{-2}e^{2\pi i-2}L_{5r}K_{6r} + 128/9F^{-2}e^{2\pi i-2}L_{5r}K_{5r} \\
& + 128/3F^{-2}e^{2\pi i-2}L_{5r}K_{2r} + 128/3F^{-2}e^{2\pi i-2}L_{5r}K_{1r} - 128/9F^{-2}e^{2\pi i-2}L_{4r}K_{10r} \\
& - 128/9F^{-2}e^{2\pi i-2}L_{4r}K_{9r} - 128/3F^{-2}e^{2\pi i-2}L_{4r}K_{8r} - 128/3F^{-2}e^{2\pi i-2}L_{4r}K_{7r} \\
& + 256/9F^{-2}e^{2\pi i-2}L_{4r}K_{5r} + 256/3F^{-2}e^{2\pi i-2}L_{4r}K_{2r} + 256/3F^{-2}e^{2\pi i-2}L_{4r}K_{1r} \\
& - 1/128\ln(2)F^{-6}C_0e^{2\pi i-4} - 1/2048\ln(2)\ln(3)F^{-6}C_0e^{2\pi i-4} - 3/1024\ln(2)\ln(4)F^{-6}C_0e^{2\pi i-4} \\
& - 1/2048\ln(2)\ln(8)F^{-6}C_0e^{2\pi i-4} + 59/6144\ln(3)F^{-6}C_0e^{2\pi i-4} + 1/8192\ln(3)^2F^{-6}C_0e^{2\pi i-4} \\
& - 55/9216\ln(3)\ln(4)F^{-6}C_0e^{2\pi i-4} - 1/4608\ln(3)\ln(6)F^{-6}C_0e^{2\pi i-4} - 11/12288\ln(3)\ln(8)F^{-6}C_0e^{2\pi i-4} \\
& + 193/9216\ln(4)F^{-6}C_0e^{2\pi i-4} + 4\ln(4)F^{-6}C_0e^{2\pi i-2}L_{8r}\pi^{-2} + 8\ln(4)F^{-6}C_0e^{2\pi i-2}L_{6r}\pi^{-2} \\
& - 3/2\ln(4)F^{-6}C_0e^{2\pi i-2}L_{5r}\pi^{-2} - 6\ln(4)F^{-6}C_0e^{2\pi i-2}L_{4r}\pi^{-2} + 5/4\ln(4)F^{-6}C_0e^{2\pi i-2}L_{3r}\pi^{-2} \\
& + \ln(4)F^{-6}C_0e^{2\pi i-2}L_{2r}\pi^{-2} + 4\ln(4)F^{-6}C_0e^{2\pi i-2}L_{1r}\pi^{-2} - 1/192\ln(4)F^{-2}e^{2\pi i-4} - 1/4\ln(4)F^{-2}e^{2\pi i-2}K_{11r}\pi^{-2} \\
& - 1/4\ln(4)F^{-2}e^{2\pi i-2}K_{10r}\pi^{-2} - 1/2\ln(4)F^{-2}e^{2\pi i-2}K_{8r}\pi^{-2} + 5/24\ln(4)F^{-2}e^{2\pi i-2}K_{6r}\pi^{-2} - 1/24\ln(4)F^{-2}e^{2\pi i-2}K_{5r}\pi^{-2} \\
& + 1/2\ln(4)F^{-2}e^{2\pi i-2}K_{2r}\pi^{-2} - 17/3072\ln(4)^2F^{-6}C_0e^{2\pi i-4} - 1/1024\ln(4)\ln(5)F^{-6}C_0e^{2\pi i-4} \\
& + 1/1024\ln(4)\ln(6)F^{-6}C_0e^{2\pi i-4} - 43/3072\ln(4)\ln(8)F^{-6}C_0e^{2\pi i-4} - 3/1024\ln(5)F^{-6}C_0e^{2\pi i-4} \\
& - 1/1024\ln(5)^2F^{-6}C_0e^{2\pi i-4} - 1/1024\ln(5)\ln(6)F^{-6}C_0e^{2\pi i-4} + 271/6912\ln(6)F^{-6}C_0e^{2\pi i-4} \\
& + 12\ln(6)F^{-6}C_0e^{2\pi i-4} + 24\ln(6)F^{-6}C_0e^{2\pi i-2}L_{6r}\pi^{-2} - 6\ln(6)F^{-6}C_0e^{2\pi i-2}L_{5r}\pi^{-2} \\
& - 12\ln(6)F^{-6}C_0e^{2\pi i-2}L_{4r}\pi^{-2} + 15/2\ln(6)F^{-6}C_0e^{2\pi i-2}L_{3r}\pi^{-2} + 21/2\ln(6)F^{-6}C_0e^{2\pi i-2}L_{2r}\pi^{-2} \\
& + 15\ln(6)F^{-6}C_0e^{2\pi i-2}L_{1r}\pi^{-2} + 33/1024\ln(6)^2F^{-6}C_0e^{2\pi i-4} - 3/256\ln(6)\ln(7)F^{-6}C_0e^{2\pi i-4} \\
& - 517/27648\ln(6)\ln(8)F^{-6}C_0e^{2\pi i-4} - 3/512\ln(7)F^{-6}C_0e^{2\pi i-4} - 3/512\ln(7)^2F^{-6}C_0e^{2\pi i-4} \\
& + 839/10368\ln(8)F^{-6}C_0e^{2\pi i-4} + 4/3\ln(8)F^{-6}C_0e^{2\pi i-2}L_{7r}\pi^{-2} - 8/3\ln(8)F^{-6}C_0e^{2\pi i-2}L_{6r}\pi^{-2} \\
& + 2/9\ln(8)F^{-6}C_0e^{2\pi i-2}L_{5r}\pi^{-2} - 2/9\ln(8)F^{-6}C_0e^{2\pi i-2}L_{4r}\pi^{-2} + 35/9\ln(8)F^{-6}C_0e^{2\pi i-2}L_{3r}\pi^{-2} \\
& + 20/9\ln(8)F^{-6}C_0e^{2\pi i-2}L_{2r}\pi^{-2} + 80/9\ln(8)F^{-6}C_0e^{2\pi i-2}L_{1r}\pi^{-2} + 4/81\ln(8)F^{-2}e^{2\pi i-2}K_{10r}\pi^{-2} \\
& + 4/81\ln(8)F^{-2}e^{2\pi i-2}K_{9r}\pi^{-2} + 4/27\ln(8)F^{-2}e^{2\pi i-2}K_{8r}\pi^{-2} + 4/27\ln(8)F^{-2}e^{2\pi i-2}K_{7r}\pi^{-2} \\
& - 1/9\ln(8)F^{-2}e^{2\pi i-2}K_{6r}\pi^{-2} - 1/9\ln(8)F^{-2}e^{2\pi i-2}K_{5r}\pi^{-2} - 1/18\ln(8)F^{-2}e^{2\pi i-2}K_{4r}\pi^{-2} +
\end{aligned}$$

$$\begin{aligned}
& 1/9*\ln(8)*F^{-2}*e^{2*K3r*\pi^{-2}} - 2/9*\ln(8)*F^{-2}*e^{2*K2r*\pi^{-2}} - 2/9*\ln(8)*F^{-2}*e^{2*K1r*\pi^{-2}} - 4213/221184*\ln(8)^2*F^{-6}*C0*e^{2*\pi^{-4}} + 1/256*mL(2,4,3)*F^{-6}*C0*e^{2*\pi^{-4}} - 3/256*mL(2,4,8)*F^{-6}*C0*e^{2*\pi^{-4}} - 1/2048*mL(3,6,3)*F^{-6}*C0*e^{2*\pi^{-4}} - 3/1024*mL(3,6,8)*F^{-6}*C0*e^{2*\pi^{-4}} + 3/512*mL(4,2,3)*F^{-6}*C0*e^{2*\pi^{-4}} - 1/512*mL(4,2,8)*F^{-6}*C0*e^{2*\pi^{-4}} + 5/768*mL(6,3,8)*F^{-6}*C0*e^{2*\pi^{-4}} - 181/165888*mL(8,6,8)*F^{-6}*C0*e^{2*\pi^{-4}} + 23/1536*C*F^{-6}*C0*e^{2*\pi^{-4}} + 4*C*F^{-6}*C0*e^{2*L8r*\pi^{-2}} + 8*C*F^{-6}*C0*e^{2*L6r*\pi^{-2}} - 5/2*C*F^{-6}*C0*e^{2*L5r*\pi^{-2}} - 8*C*F^{-6}*C0*e^{2*L4r*\pi^{-2}} + 5/2*C*F^{-6}*C0*e^{2*L3r*\pi^{-2}} + 2*C*F^{-6}*C0*e^{2*L2r*\pi^{-2}} + 8*C*F^{-6}*C0*e^{2*L1r*\pi^{-2}} + 1/384*C*F^{-2}*e^{2*\pi^{-4}} + 1/4*C*F^{-2}*e^{2*K11r*\pi^{-2}} + 55/162*C*F^{-2}*e^{2*K10r*\pi^{-2}} + 29/324*C*F^{-2}*e^{2*K9r*\pi^{-2}} + 83/108*C*F^{-2}*e^{2*K8r*\pi^{-2}} + 29/108*C*F^{-2}*e^{2*K7r*\pi^{-2}} - 67/216*C*F^{-2}*e^{2*K6r*\pi^{-2}} - 13/216*C*F^{-2}*e^{2*K5r*\pi^{-2}} - 1/54*C*F^{-2}*e^{2*K4r*\pi^{-2}} + 1/27*C*F^{-2}*e^{2*K3r*\pi^{-2}} - 83/108*C*F^{-2}*e^{2*K2r*\pi^{-2}} - 29/108*C*F^{-2}*e^{2*K1r*\pi^{-2}} - 1/288*C^2*F^{-6}*C0*e^{2*\pi^{-4}} \\
& 4) \\
& + mkp2^3 * (- 1/1152*\ln(3)*\ln(4)*den(mkp2 - mpp2)*F^{-6}*C0*e^{2*\pi^{-4}} + 1/1152*\ln(3)*\ln(6)*den(mkp2 - mpp2)*F^{-6}*C0*e^{2*\pi^{-4}} + 1/96*\ln(4)*\ln(8)*den(mkp2 - mpp2)*F^{-6}*C0*e^{2*\pi^{-4}} - 13/864*\ln(6)*\ln(8)*den(mkp2 - mpp2)*F^{-6}*C0*e^{2*\pi^{-4}} + 4/81*\ln(8)*den(mkp2 - mpp2)*F^{-2}*e^{2*K6r*\pi^{-2}} + 4/81*\ln(8)*den(mkp2 - mpp2)*F^{-2}*e^{2*K5r*\pi^{-2}} + 2/27*\ln(8)*den(mkp2 - mpp2)*F^{-2}*e^{2*K4r*\pi^{-2}} - 4/27*\ln(8)*den(mkp2 - mpp2)*F^{-2}*e^{2*K3r*\pi^{-2}} - 1/192*mL(6,3,8)*F^{-6}*C0*e^{2*\pi^{-4}}*mpo2^{-1}) \\
& + mpp2 * (- 1/512*\ln(1)*mm(1)*mm(2)*F^{-6}*C0*e^{2*\pi^{-4}} + 1/512*\ln(1)*mm(1)*mm(6)*F^{-6}*C0*e^{2*\pi^{-4}} - 1/512*\ln(2)*mm(2)*mm(3)*F^{-6}*C0*e^{2*\pi^{-4}} + 1/256*\ln(2)*mm(2)*mm(4)*F^{-6}*C0*e^{2*\pi^{-4}} + 1/512*\ln(2)*mm(2)*mm(6)*F^{-6}*C0*e^{2*\pi^{-4}} - 1/512*\ln(3)*mm(2)*mm(3)*F^{-6}*C0*e^{2*\pi^{-4}} + 1/256*\ln(3)*mm(3)*mm(4)*F^{-6}*C0*e^{2*\pi^{-4}} + 13/2048*mm(1)*mm(2)*F^{-6}*C0*e^{2*\pi^{-4}} - 13/2048*mm(1)*mm(6)*F^{-6}*C0*e^{2*\pi^{-4}} + 13/1024*mm(2)*mm(3)*F^{-6}*C0*e^{2*\pi^{-4}} - 13/1024*mm(2)*mm(4)*F^{-6}*C0*e^{2*\pi^{-4}} - 13/2048*mm(2)*mm(6)*F^{-6}*C0*e^{2*\pi^{-4}} - 13/1024*mm(3)*mm(4)*F^{-6}*C0*e^{2*\pi^{-4}}) \\
& + mpp2*mkp2 * (+ 295/13824*F^{-6}*C0*e^{2*\pi^{-4}} - 11/18432*F^{-6}*C0*e^{2*\pi^{-2}} + 20/9*F^{-6}*C0*e^{2*L8r*\pi^{-2}} + 32/9*F^{-6}*C0*e^{2*L7r*\pi^{-2}} - 4/9*F^{-6}*C0*e^{2*L6r*\pi^{-2}} - 14/27*F^{-6}*C0*e^{2*L5r*\pi^{-2}} + 512*F^{-6}*C0*e^{2*L5r*L6r} + 2/9*F^{-6}*C0*e^{2*L4r*\pi^{-2}} + 512*F^{-6}*C0*e^{2*L4r*L8r} + 2560*F^{-6}*C0*e^{2*L4r*L6r} - 512*F^{-6}*C0*e^{2*L4r*L5r} - 1280*F^{-6}*C0*e^{2*L4r^2} - 5/54*F^{-6}*C0*e^{2*L3r*\pi^{-2}} - 1/9*F^{-6}*C0*e^{2*L2r*\pi^{-2}} - 128*F^{-6}*C0*CC32*e^2 - 960*F^{-6}*C0*CC21*e^2 - 64*F^{-6}*C0*CC20*e^2 + 192*F^{-6}*C0*CC19*e^2 + 64*F^{-6}*C0*CC17*e^2 - 64*F^{-6}*C0*CC16*e^2 + 64*F^{-6}*C0*CC15*e^2 - 64*F^{-6}*C0*CC14*e^2 + 128*F^{-6}*C0*CC13*e^2 + 1/324*F^{-2}*e^{2*K10r*\pi^{-2}} + 1/324*F^{-2}*e^{2*K9r*\pi^{-2}} - 1/54*F^{-2}*e^{2*K8r*\pi^{-2}} - 1/54*F^{-2}*e^{2*K7r*\pi^{-2}} + 1/108*F^{-2}*e^{2*K6r*\pi^{-2}} + 1/108*F^{-2}*e^{2*K5r*\pi^{-2}} + 1/216*F^{-2}*e^{2*K4r*\pi^{-2}} - 1/108*F^{-2}*e^{2*K3r*\pi^{-2}} + 1/54*F^{-2}*e^{2*K2r*\pi^{-2}} + 1/54*F^{-2}*e^{2*K1r*\pi^{-2}}
\end{aligned}$$

$$\begin{aligned}
& 2 - 128/9F^{-2}e^{2L6r}K6r - 128/9F^{-2}e^{2L6r}K5r - 128/3F^{-2}e^{2L6r}K2r - 128/3F^{-2}e^{2L6r}K1r - 64/9F^{-2}e^{2L4r}K10r - \\
& 64/9F^{-2}e^{2L4r}K9r - 64/3F^{-2}e^{2L4r}K8r - 64/3F^{-2}e^{2L4r}K7r + 128/9F^{-2}e^{2L4r}K6r + 128/9F^{-2}e^{2L4r}K5r + 128/3F^{-2}e^{2L4r}K2r + 128/3F^{-2}e^{2L4r}K1r + 71/9216\ln(1)F^{-6}C0e^{2\pi} \\
& - 4 + 2\ln(1)F^{-6}C0e^{2L8r}\pi^{-2} + 4\ln(1)F^{-6}C0e^{2L6r}\pi^{-2} - 1/2\ln(1)F^{-6}C0e^{2L5r}\pi^{-2} - 2\ln(1)F^{-6}C0e^{2L4r}\pi^{-2} \\
& - 1/4\ln(1)F^{-2}e^{2K11r}\pi^{-2} - 1/4\ln(1)F^{-2}e^{2K10r}\pi^{-2} - 1/2\ln(1)F^{-2}e^{2K8r}\pi^{-2} + 5/24\ln(1)F^{-2}e^{2K6r}\pi^{-2} \\
& - 1/24\ln(1)F^{-2}e^{2K5r}\pi^{-2} + 1/2\ln(1)F^{-2}e^{2K2r}\pi^{-2} + 13/3072\ln(1)^2F^{-6}C0e^{2\pi} \\
& - 4 - 1/1024\ln(1)\ln(2)F^{-6}C0e^{2\pi} - 4 + 1/1024\ln(1)\ln(3)F^{-6}C0e^{2\pi} - 4 + 1/512\ln(1)\ln(4)F^{-6}C0e^{2\pi} \\
& - 4 + 3/1024\ln(1)\ln(6)F^{-6}C0e^{2\pi} - 4 + 29/9216\ln(1)\ln(8)F^{-6}C0e^{2\pi} - 4 + 1/768\ln(2)F^{-6}C0e^{2\pi} - 4 \\
& - 11/1536\ln(2)^2F^{-6}C0e^{2\pi} - 4 - 5/1024\ln(2)\ln(3)F^{-6}C0e^{2\pi} - 4 - 19/3072\ln(2)\ln(4)F^{-6}C0e^{2\pi} - 4 \\
& - 1/1024\ln(2)\ln(6)F^{-6}C0e^{2\pi} - 4 - 7/3072\ln(2)\ln(8)F^{-6}C0e^{2\pi} - 4 + 451/18432\ln(3)F^{-6}C0e^{2\pi} - 4 \\
& + 2\ln(3)F^{-6}C0e^{2L8r}\pi^{-2} + 4\ln(3)F^{-6}C0e^{2L6r}\pi^{-2} - \ln(3)F^{-6}C0e^{2L5r}\pi^{-2} - 4\ln(3)F^{-6}C0e^{2L4r}\pi^{-2} \\
& + 5/4\ln(3)F^{-6}C0e^{2L3r}\pi^{-2} + \ln(3)F^{-6}C0e^{2L2r}\pi^{-2} + 4\ln(3)F^{-6}C0e^{2L1r}\pi^{-2} - 1/1024\ln(3)^2F^{-6}C0e^{2\pi} - 4 \\
& - 41/9216\ln(3)\ln(4)F^{-6}C0e^{2\pi} - 4 + 3/1024\ln(3)\ln(6)F^{-6}C0e^{2\pi} - 4 + 1/4608\ln(3)\ln(8)F^{-6}C0e^{2\pi} - 4 \\
& + 3/512\ln(4)F^{-6}C0e^{2\pi} - 4 - 1/512\ln(4)^2F^{-6}C0e^{2\pi} - 4 + 11/4608\ln(4)\ln(8)F^{-6}C0e^{2\pi} - 4 + 79/13824\ln(6)F^{-6}C0e^{2\pi} - 4 \\
& - 1/1728\ln(6)\ln(8)F^{-6}C0e^{2\pi} - 4 - 2113/165888\ln(8)F^{-6}C0e^{2\pi} - 4 - 2/3\ln(8)F^{-6}C0e^{2L8r}\pi^{-2} - 4\ln(8)F^{-6}C0e^{2L6r}\pi^{-2} \\
& + 1/3\ln(8)F^{-6}C0e^{2L5r}\pi^{-2} + 34/9\ln(8)F^{-6}C0e^{2L4r}\pi^{-2} - 49/36\ln(8)F^{-6}C0e^{2L3r}\pi^{-2} - 7/9\ln(8)F^{-6}C0e^{2L2r}\pi^{-2} \\
& - 28/9\ln(8)F^{-6}C0e^{2L1r}\pi^{-2} + 1/162\ln(8)F^{-2}e^{2K10r}\pi^{-2} + 1/162\ln(8)F^{-2}e^{2K9r}\pi^{-2} - 1/27\ln(8)F^{-2}e^{2K8r}\pi^{-2} \\
& - 1/27\ln(8)F^{-2}e^{2K7r}\pi^{-2} + 5/162\ln(8)F^{-2}e^{2K6r}\pi^{-2} + 5/162\ln(8)F^{-2}e^{2K5r}\pi^{-2} + 1/54\ln(8)F^{-2}e^{2K4r}\pi^{-2} \\
& - 1/27\ln(8)F^{-2}e^{2K3r}\pi^{-2} + 1/18\ln(8)F^{-2}e^{2K2r}\pi^{-2} + 1/18\ln(8)F^{-2}e^{2K1r}\pi^{-2} + 7/2304\ln(8)^2F^{-6}C0e^{2\pi} - 4 \\
& - 1/256mL(2,1,6)F^{-6}C0e^{2\pi} - 4 - 1/256mL(2,4,3)F^{-6}C0e^{2\pi} - 4 + 3/256mL(2,4,8)F^{-6}C0e^{2\pi} - 4 + 1/512mL(3,6,3)F^{-6}C0e^{2\pi} - 4 \\
& + 3/256mL(3,6,8)F^{-6}C0e^{2\pi} - 4 - 1/192mL(4,2,8)F^{-6}C0e^{2\pi} - 4 - 1/384mL(6,3,8)F^{-6}C0e^{2\pi} - 4 + 181/41472mL(8,6,8)F^{-6}C0e^{2\pi} - 4 \\
& + 5/512CF^{-6}C0e^{2\pi} - 4 + 2CF^{-6}C0e^{2L8r}\pi^{-2} + 6CF^{-6}C0e^{2L6r}\pi^{-2} - 3/2CF^{-6}C0e^{2L5r}\pi^{-2} - 7CF^{-6}C0e^{2L4r}\pi^{-2} \\
& + 5/2CF^{-6}C0e^{2L3r}\pi^{-2} + 2CF^{-6}C0e^{2L2r}\pi^{-2} + 8CF^{-6}C0e^{2L1r}\pi^{-2} + 1/4CF^{-2}e^{2K11r}\pi^{-2} \\
& + 25/81CF^{-2}e^{2K10r}\pi^{-2} + 19/324CF^{-2}e^{2K9r}\pi^{-2} + 67/108CF^{-2}e^{2K8r}\pi^{-2} + 13/108CF^{-2}e^{2K7r}\pi^{-2} \\
& - 59/216CF^{-2}e^{2K6r}\pi^{-2} - 5/216CF^{-2}e^{2K5r}\pi^{-2} - 1/27CF^{-2}e^{2K4r}\pi^{-2} + 2/27CF^{-2}e^{2K3r}\pi^{-2} - 67/108CF^{-2}e^{2K2r}\pi^{-2} \\
& - 67/108CF^{-2}e^{2K1r}\pi^{-2}
\end{aligned}$$

$$\begin{aligned}
& 2^*e^{\wedge}2^*K2r^*pi^{\wedge}-2 - 13/108^*C^*F^{\wedge}-2^*e^{\wedge}2^*K1r^*pi^{\wedge}-2 - 1/192^*C^{\wedge}2^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}- \\
& 4) \\
& + mpp2^*mkp2^{\wedge}2 * (- 1/288^*ln(3)^*ln(4)^*den(mkp2 - mpp2)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 \\
& + 5/1152^*ln(3)^*ln(6)^*den(mkp2 - mpp2)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 - 1/192^*ln(4)^*ln(8)^*den(mkp2 \\
& - mpp2)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 + 5/576^*ln(6)^*ln(8)^*den(mkp2 - mpp2)^*F^{\wedge}- \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 - 1/27^*ln(8)^*den(mkp2 - mpp2)^*F^{\wedge}-2^*e^{\wedge}2^*K10r^*pi^{\wedge}-2 - \\
& 1/27^*ln(8)^*den(mkp2 - mpp2)^*F^{\wedge}-2^*e^{\wedge}2^*K9r^*pi^{\wedge}-2 - 1/27^*ln(8)^*den(mkp2 - \\
& mpp2)^*F^{\wedge}-2^*e^{\wedge}2^*K6r^*pi^{\wedge}-2 - 1/27^*ln(8)^*den(mkp2 - mpp2)^*F^{\wedge}-2^*e^{\wedge}2^*K5r^*pi^{\wedge}- \\
& 2 - 1/18^*ln(8)^*den(mkp2 - mpp2)^*F^{\wedge}-2^*e^{\wedge}2^*K4r^*pi^{\wedge}-2 + 1/9^*ln(8)^*den(mkp2 \\
& - mpp2)^*F^{\wedge}-2^*e^{\wedge}2^*K3r^*pi^{\wedge}-2 - 1/1024^*mL(3,6,3)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}-4^*mko2^{\wedge}-1 \\
& - 3/512^*mL(3,6,8)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}-4^*mko2^{\wedge}-1 - 181/82944^*mL(8,6,8)^*F^{\wedge}- \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}-4^*mko2^{\wedge}-1) \\
& + mpp2^{\wedge}2 * (+ 53/6144^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 - 2/3^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L8r^*pi^{\wedge}-2 \\
& - 16/9^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L7r^*pi^{\wedge}-2 + 2/9^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L6r^*pi^{\wedge}-2 + 1/27^*F^{\wedge}- \\
& 6^*C0^*e^{\wedge}2^*L5r^*pi^{\wedge}-2 - 1/9^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L4r^*pi^{\wedge}-2 + 256^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L4r^*L6r \\
& - 128^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L4r^{\wedge}2 - 41/216^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L3r^*pi^{\wedge}-2 - 7/9^*F^{\wedge}- \\
& 6^*C0^*e^{\wedge}2^*L2r^*pi^{\wedge}-2 - 96^*F^{\wedge}-6^*C0^*CC21^*e^{\wedge}2 - 96^*F^{\wedge}-6^*C0^*CC20^*e^{\wedge}2 - \\
& 96^*F^{\wedge}-6^*C0^*CC19^*e^{\wedge}2 - 32^*F^{\wedge}-6^*C0^*CC17^*e^{\wedge}2 + 96^*F^{\wedge}-6^*C0^*CC16^*e^{\wedge}2 \\
& + 32^*F^{\wedge}-6^*C0^*CC14^*e^{\wedge}2 + 1/768^*F^{\wedge}-2^*e^{\wedge}2^*pi^{\wedge}-4 - 1/9216^*ln(1)^*F^{\wedge}- \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 + 2^*ln(1)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L8r^*pi^{\wedge}-2 + 4^*ln(1)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L6r^*pi^{\wedge}- \\
& 2 - ln(1)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L5r^*pi^{\wedge}-2 - 4^*ln(1)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L4r^*pi^{\wedge}-2 + \\
& 5/4^*ln(1)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L3r^*pi^{\wedge}-2 + ln(1)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L2r^*pi^{\wedge}-2 + \\
& 4^*ln(1)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L1r^*pi^{\wedge}-2 + 1/384^*ln(1)^*F^{\wedge}-2^*e^{\wedge}2^*pi^{\wedge}-4 + 3/1024^*ln(1)^{\wedge}2^*F^{\wedge}- \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 - 1/1024^*ln(1)^*ln(2)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 + 1/1024^*ln(1)^*ln(3)^*F^{\wedge}- \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 - 1/1024^*ln(1)^*ln(6)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 + 5/9216^*ln(1)^*ln(8)^*F^{\wedge}- \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 + 5/1024^*ln(2)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 - 3/1024^*ln(2)^{\wedge}2^*F^{\wedge}- \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 - 1/512^*ln(2)^*ln(3)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 - 1/1024^*ln(2)^*ln(4)^*F^{\wedge}- \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 + 11/4608^*ln(3)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 + ln(3)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L8r^*pi^{\wedge}- \\
& 2 + 2^*ln(3)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L6r^*pi^{\wedge}-2 - 1/2^*ln(3)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L5r^*pi^{\wedge}-2 \\
& - 2^*ln(3)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L4r^*pi^{\wedge}-2 + 5/8^*ln(3)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L3r^*pi^{\wedge}-2 \\
& + 1/2^*ln(3)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L2r^*pi^{\wedge}-2 + 2^*ln(3)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L1r^*pi^{\wedge}-2 \\
& + 1/144^*ln(3)^*F^{\wedge}-2^*e^{\wedge}2^*K10r^*pi^{\wedge}-2 + 1/144^*ln(3)^*F^{\wedge}-2^*e^{\wedge}2^*K9r^*pi^{\wedge}- \\
& 2 - 1/144^*ln(3)^*F^{\wedge}-2^*e^{\wedge}2^*K6r^*pi^{\wedge}-2 - 1/144^*ln(3)^*F^{\wedge}-2^*e^{\wedge}2^*K5r^*pi^{\wedge}- \\
& 2 - 1/96^*ln(3)^*F^{\wedge}-2^*e^{\wedge}2^*K4r^*pi^{\wedge}-2 + 1/48^*ln(3)^*F^{\wedge}-2^*e^{\wedge}2^*K3r^*pi^{\wedge}-2 - \\
& 1/4096^*ln(3)^{\wedge}2^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 - 1/1024^*ln(3)^*ln(4)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}- \\
& 4 + 1/4608^*ln(3)^*ln(6)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 + 5/18432^*ln(3)^*ln(8)^*F^{\wedge}- \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 + 1/13824^*ln(6)^*ln(8)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 - 13/41472^*ln(8)^*F^{\wedge}- \\
& 6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 - 1/3^*ln(8)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L8r^*pi^{\wedge}-2 - 4/3^*ln(8)^*F^{\wedge}- \\
& 6^*C0^*e^{\wedge}2^*L7r^*pi^{\wedge}-2 + 2/3^*ln(8)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L6r^*pi^{\wedge}-2 - 1/18^*ln(8)^*F^{\wedge}- \\
& 6^*C0^*e^{\wedge}2^*L5r^*pi^{\wedge}-2 - 5/9^*ln(8)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L4r^*pi^{\wedge}-2 + 7/72^*ln(8)^*F^{\wedge}- \\
& 6^*C0^*e^{\wedge}2^*L3r^*pi^{\wedge}-2 + 1/18^*ln(8)^*F^{\wedge}-6^*C0^*e^{\wedge}2^*L2r^*pi^{\wedge}-2 + 2/9^*ln(8)^*F^{\wedge}- \\
& 6^*C0^*e^{\wedge}2^*L1r^*pi^{\wedge}-2 - 1/432^*ln(8)^*F^{\wedge}-2^*e^{\wedge}2^*K10r^*pi^{\wedge}-2 - 1/432^*ln(8)^*F^{\wedge}- \\
& 2^*e^{\wedge}2^*K9r^*pi^{\wedge}-2 - 1/1296^*ln(8)^*F^{\wedge}-2^*e^{\wedge}2^*K6r^*pi^{\wedge}-2 - 1/1296^*ln(8)^*F^{\wedge}- \\
& 2^*e^{\wedge}2^*K5r^*pi^{\wedge}-2 - 1/864^*ln(8)^*F^{\wedge}-2^*e^{\wedge}2^*K4r^*pi^{\wedge}-2 + 1/432^*ln(8)^*F^{\wedge}- \\
& 2^*e^{\wedge}2^*K3r^*pi^{\wedge}-2 + 29/110592^*ln(8)^{\wedge}2^*F^{\wedge}-6^*C0^*e^{\wedge}2^*pi^{\wedge}-4 + 7/4608^*mL(2,1,6)^*F^{\wedge}-
\end{aligned}$$

$$\begin{aligned}
& 6^*C0^*e^2*pi^4 + 1/256*mL(2,3,4)*F^-6^*C0^*e^2*pi^4 + 1/512*mL(2,4,3)*F^- \\
& 6^*C0^*e^2*pi^4 - 3/512*mL(2,4,8)*F^-6^*C0^*e^2*pi^4 - 1/768*C^*F^- \\
& 2^*e^2*pi^4) \\
& + mpp2^2*mkp2 * (- 7/4608*ln(3)*ln(4)*den(mkp2 - mpp2)*F^-6^*C0^*e^2*pi^4 - \\
& 4 + 11/4608*ln(3)*ln(6)*den(mkp2 - mpp2)*F^-6^*C0^*e^2*pi^4 + 1/72*ln(3)*den(mkp2 \\
& - mpp2)*F^-2^*e^2*K10r*pi^2 + 1/72*ln(3)*den(mkp2 - mpp2)*F^- \\
& 2^*e^2*K9r*pi^2 - 1/72*ln(3)*den(mkp2 - mpp2)*F^-2^*e^2*K6r*pi^2 - \\
& 1/72*ln(3)*den(mkp2 - mpp2)*F^-2^*e^2*K5r*pi^2 - 1/48*ln(3)*den(mkp2 - \\
& mpp2)*F^-2^*e^2*K4r*pi^2 + 1/24*ln(3)*den(mkp2 - mpp2)*F^-2^*e^2*K3r*pi^2 - \\
& 2 + 1/1536*ln(4)*ln(8)*den(mkp2 - mpp2)*F^-6^*C0^*e^2*pi^4 - 7/4608*ln(6)*ln(8)*den(mkp2 \\
& - mpp2)*F^-6^*C0^*e^2*pi^4 + 1/54*ln(8)*den(mkp2 - mpp2)*F^-2^*e^2*K10r*pi^2 - \\
& 2 + 1/54*ln(8)*den(mkp2 - mpp2)*F^-2^*e^2*K9r*pi^2 + 1/108*ln(8)*den(mkp2 \\
& - mpp2)*F^-2^*e^2*K6r*pi^2 + 1/108*ln(8)*den(mkp2 - mpp2)*F^- \\
& 2^*e^2*K5r*pi^2 + 1/72*ln(8)*den(mkp2 - mpp2)*F^-2^*e^2*K4r*pi^2 - \\
& 1/36*ln(8)*den(mkp2 - mpp2)*F^-2^*e^2*K3r*pi^2 - 1/256*mL(2,3,4)*F^- \\
& 6^*C0^*e^2*pi^4*mko2^-1 - 1/1024*mL(3,6,3)*F^-6^*C0^*e^2*pi^4*mko2^-1 \\
& - 3/512*mL(3,6,8)*F^-6^*C0^*e^2*pi^4*mko2^-1 - 181/82944*mL(8,6,8)*F^- \\
& 6^*C0^*e^2*pi^4*mko2^-1)
\end{aligned}$$

$$\begin{aligned}
& + mpp2^3 * (+ 1/4608*ln(3)*ln(6)*den(mkp2 - mpp2)*F^-6^*C0^*e^2*pi^4 + \\
& 1/144*ln(3)*den(mkp2 - mpp2)*F^-2^*e^2*K10r*pi^2 + 1/144*ln(3)*den(mkp2 \\
& - mpp2)*F^-2^*e^2*K9r*pi^2 - 1/144*ln(3)*den(mkp2 - mpp2)*F^-2^*e^2*K6r*pi^2 - \\
& 2 - 1/144*ln(3)*den(mkp2 - mpp2)*F^-2^*e^2*K5r*pi^2 - 1/96*ln(3)*den(mkp2 \\
& - mpp2)*F^-2^*e^2*K4r*pi^2 + 1/48*ln(3)*den(mkp2 - mpp2)*F^-2^*e^2*K3r*pi^2 - \\
& 2 + 1/13824*ln(6)*ln(8)*den(mkp2 - mpp2)*F^-6^*C0^*e^2*pi^4 - 1/432*ln(8)*den(mkp2 \\
& - mpp2)*F^-2^*e^2*K10r*pi^2 - 1/432*ln(8)*den(mkp2 - mpp2)*F^- \\
& 2^*e^2*K9r*pi^2 - 1/1296*ln(8)*den(mkp2 - mpp2)*F^-2^*e^2*K6r*pi^2 - \\
& 1/1296*ln(8)*den(mkp2 - mpp2)*F^-2^*e^2*K5r*pi^2 - 1/864*ln(8)*den(mkp2 \\
& - mpp2)*F^-2^*e^2*K4r*pi^2 + 1/432*ln(8)*den(mkp2 - mpp2)*F^- \\
& 2^*e^2*K3r*pi^2 - 1/256*mL(2,3,4)*F^-6^*C0^*e^2*pi^4*mko2^-1);
\end{aligned}$$

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$$\begin{aligned}
& + mkp2 * (- 1/512*ln(3)*mm(3)*mm(4)*F^-6^*C0^*e^2*pi^4 + 1/512*ln(3)*mm(3)*mm(5)*F^- \\
& 6^*C0^*e^2*pi^4 - 1/512*ln(3)*mm(3)*mm(6)*F^-6^*C0^*e^2*pi^4 + 1/512*ln(3)*mm(3)*mm(7)*F^- \\
& 6^*C0^*e^2*pi^4 + 247/4608*ln(4)*mm(4)*mm(5)*F^-6^*C0^*e^2*pi^4 - \\
& 23/576*ln(4)*mm(4)*mm(8)*F^-6^*C0^*e^2*pi^4 - 23/576*ln(5)*mm(5)*mm(8)*F^- \\
& 6^*C0^*e^2*pi^4 + 247/4608*ln(6)*mm(6)*mm(7)*F^-6^*C0^*e^2*pi^4 - \\
& 23/576*ln(6)*mm(6)*mm(8)*F^-6^*C0^*e^2*pi^4 - 23/576*ln(7)*mm(7)*mm(8)*F^- \\
& 6^*C0^*e^2*pi^4 - 3/256*ln(8)*mm(4)*mm(8)*F^-6^*C0^*e^2*pi^4 + 3/256*ln(8)*mm(5)*mm(8)*F^- \\
& 6^*C0^*e^2*pi^4 - 3/256*ln(8)*mm(6)*mm(8)*F^-6^*C0^*e^2*pi^4 + 3/256*ln(8)*mm(7)*mm(8)*F^- \\
& 6^*C0^*e^2*pi^4 + 1/9*mL(4,5,8)*mm(4)*mm(5)*F^-6^*C0^*e^2*pi^4 + \\
& 13/2048*mm(3)*mm(4)*F^-6^*C0^*e^2*pi^4 - 13/2048*mm(3)*mm(5)*F^- \\
& 6^*C0^*e^2*pi^4 + 13/2048*mm(3)*mm(6)*F^-6^*C0^*e^2*pi^4 - 13/2048*mm(3)*mm(7)*F^- \\
& 6^*C0^*e^2*pi^4 - 3211/18432*mm(4)*mm(5)*F^-6^*C0^*e^2*pi^4 + 1547/9216*mm(4)*mm(8)*F^- \\
& 6^*C0^*e^2*pi^4 + 845/9216*mm(5)*mm(8)*F^-6^*C0^*e^2*pi^4 - 3211/18432*mm(6)*mm(7)*F^- \\
& 6^*C0^*e^2*pi^4 + 1547/9216*mm(6)*mm(8)*F^-6^*C0^*e^2*pi^4 + 845/9216*mm(7)*mm(8)*F^-
\end{aligned}$$

$$\begin{aligned}
& 6^*C0^*e^2\pi^{\wedge-4} + 8/3^*HH1b(1,5,6,plext.plext)^*F^{\wedge-6}C0^*e^2 + 8/3^*HH1b(2,4,7,plext.plext)^*F^{\wedge-} \\
& 6^*C0^*e^2 + 4/3^*HH1b(3,4,5,plext.plext)^*F^{\wedge-6}C0^*e^2 + 4/3^*HH1b(3,6,7,plext.plext)^*F^{\wedge-} \\
& 6^*C0^*e^2 - 44/3^*HH1b(4,5,8,plext.plext)^*F^{\wedge-6}C0^*e^2 - 44/3^*HH1b(5,4,8,plext.plext)^*F^{\wedge-} \\
& 6^*C0^*e^2 - 44/3^*HH1b(6,7,8,plext.plext)^*F^{\wedge-6}C0^*e^2 - 44/3^*HH1b(7,6,8,plext.plext)^*F^{\wedge-} \\
& 6^*C0^*e^2 - 6^*H21b(1,5,6,plext.plext)^*F^{\wedge-6}C0^*e^2 - 6^*H21b(2,4,7,plext.plext)^*F^{\wedge-} \\
& 6^*C0^*e^2 - 3^*H21b(3,4,5,plext.plext)^*F^{\wedge-6}C0^*e^2 - 3^*H21b(3,6,7,plext.plext)^*F^{\wedge-} \\
& 6^*C0^*e^2 - 9^*H21b(8,4,5,plext.plext)^*F^{\wedge-6}C0^*e^2 - 9^*H21b(8,6,7,plext.plext)^*F^{\wedge-} \\
& 6^*C0^*e^2)
\end{aligned}$$

$$\begin{aligned}
& + \text{mkp}2^2 * (- 6949/165888^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} + 583/13824^*F^{\wedge-} \\
& 6^*C0^*e^2\pi^{\wedge-2} - 16/27^*F^{\wedge-6}C0^*e^2L8r\pi^{\wedge-2} + 8/3^*F^{\wedge-6}C0^*e^2L7r\pi^{\wedge-} \\
& 2 - 16/3^*F^{\wedge-6}C0^*e^2L6r\pi^{\wedge-2} + 2/27^*F^{\wedge-6}C0^*e^2L5r\pi^{\wedge-2} + \\
& 14336/9^*F^{\wedge-6}C0^*e^2L5rL8r + 2048/3^*F^{\wedge-6}C0^*e^2L5rL7r + 8192/3^*F^{\wedge-} \\
& 6^*C0^*e^2L5rL6r - 2048/3^*F^{\wedge-6}C0^*e^2L5r^2 + 4/3^*F^{\wedge-6}C0^*e^2L4r\pi^{\wedge-} \\
& 2 + 10240/3^*F^{\wedge-6}C0^*e^2L4rL8r + 2048^*F^{\wedge-6}C0^*e^2L4rL7r + \\
& 5120^*F^{\wedge-6}C0^*e^2L4rL6r - 8192/3^*F^{\wedge-6}C0^*e^2L4rL5r - 2560^*F^{\wedge-} \\
& 6^*C0^*e^2L4r^2 - 55/36^*F^{\wedge-6}C0^*e^2L3r\pi^{\wedge-2} - 5^*F^{\wedge-6}C0^*e^2L2r\pi^{\wedge-2} \\
& - 8/3^*F^{\wedge-6}C0^*e^2L1r\pi^{\wedge-2} - 1024/3^*F^{\wedge-6}C0^*CC33^*e^2 - 2560/3^*F^{\wedge-} \\
& 6^*C0^*CC32^*e^2 - 512^*F^{\wedge-6}C0^*CC31^*e^2 - 1920^*F^{\wedge-6}C0^*CC21^*e^2 - \\
& 1152^*F^{\wedge-6}C0^*CC20^*e^2 - 768^*F^{\wedge-6}C0^*CC19^*e^2 + 256/3^*F^{\wedge-6}C0^*CC18^*e^2 \\
& + 1792/9^*F^{\wedge-6}C0^*CC17^*e^2 + 896/3^*F^{\wedge-6}C0^*CC16^*e^2 + 1024/3^*F^{\wedge-} \\
& 6^*C0^*CC15^*e^2 + 1792/9^*F^{\wedge-6}C0^*CC14^*e^2 + 2048/3^*F^{\wedge-6}C0^*CC13^*e^2 \\
& + 1024/3^*F^{\wedge-6}C0^*CC12^*e^2 - 1/384^*F^{\wedge-2}e^2\pi^{\wedge-4} + 1/3^*F^{\wedge-2}e^2K11r\pi^{\wedge-} \\
& 2 + 83/243^*F^{\wedge-2}e^2K10r\pi^{\wedge-2} + 2/243^*F^{\wedge-2}e^2K9r\pi^{\wedge-2} + 29/81^*F^{\wedge-} \\
& 2^*e^2K8r\pi^{\wedge-2} + 2/81^*F^{\wedge-2}e^2K7r\pi^{\wedge-2} - 5/162^*F^{\wedge-2}e^2K6r\pi^{\wedge-} \\
& 2 - 5/162^*F^{\wedge-2}e^2K5r\pi^{\wedge-2} + 4/81^*F^{\wedge-2}e^2K4r\pi^{\wedge-2} - 8/81^*F^{\wedge-} \\
& 2^*e^2K3r\pi^{\wedge-2} - 2/81^*F^{\wedge-2}e^2K2r\pi^{\wedge-2} - 2/81^*F^{\wedge-2}e^2K1r\pi^{\wedge-} \\
& 2 - 512/9^*F^{\wedge-2}e^2L8rK6r - 512/9^*F^{\wedge-2}e^2L8rK5r - 256/9^*F^{\wedge-} \\
& 2^*e^2L8rK4r + 512/9^*F^{\wedge-2}e^2L8rK3r - 1024/9^*F^{\wedge-2}e^2L8rK2r \\
& - 1024/9^*F^{\wedge-2}e^2L8rK1r - 512/9^*F^{\wedge-2}e^2L7rK6r - 512/9^*F^{\wedge-} \\
& 2^*e^2L7rK5r - 256/9^*F^{\wedge-2}e^2L7rK4r + 512/9^*F^{\wedge-2}e^2L7rK3r \\
& - 1024/9^*F^{\wedge-2}e^2L7rK2r - 1024/9^*F^{\wedge-2}e^2L7rK1r - 512/9^*F^{\wedge-} \\
& 2^*e^2L6rK6r - 512/9^*F^{\wedge-2}e^2L6rK5r - 256/9^*F^{\wedge-2}e^2L6rK4r \\
& + 512/9^*F^{\wedge-2}e^2L6rK3r - 1024/9^*F^{\wedge-2}e^2L6rK2r - 1024/9^*F^{\wedge-} \\
& 2^*e^2L6rK1r - 1024/81^*F^{\wedge-2}e^2L5rK10r - 1024/81^*F^{\wedge-2}e^2L5rK9r \\
& - 1024/27^*F^{\wedge-2}e^2L5rK8r - 1024/27^*F^{\wedge-2}e^2L5rK7r + 1024/27^*F^{\wedge-} \\
& 2^*e^2L5rK6r + 1024/27^*F^{\wedge-2}e^2L5rK5r + 512/27^*F^{\wedge-2}e^2L5rK4r \\
& - 1024/27^*F^{\wedge-2}e^2L5rK3r + 2048/27^*F^{\wedge-2}e^2L5rK2r + 2048/27^*F^{\wedge-} \\
& 2^*e^2L5rK1r - 512/27^*F^{\wedge-2}e^2L4rK10r - 512/27^*F^{\wedge-2}e^2L4rK9r \\
& - 512/9^*F^{\wedge-2}e^2L4rK8r - 512/9^*F^{\wedge-2}e^2L4rK7r + 512/9^*F^{\wedge-} \\
& 2^*e^2L4rK6r + 512/9^*F^{\wedge-2}e^2L4rK5r + 256/9^*F^{\wedge-2}e^2L4rK4r \\
& - 512/9^*F^{\wedge-2}e^2L4rK3r + 1024/9^*F^{\wedge-2}e^2L4rK2r + 1024/9^*F^{\wedge-} \\
& 2^*e^2L4rK1r - 1/256^*\ln(3)^*F^{\wedge-6}C0^*e^2\pi^{\wedge-4} + 635/27648^*\ln(4)^*F^{\wedge-} \\
& 6^*C0^*e^2\pi^{\wedge-4} - 2/3^*\ln(4)^*F^{\wedge-6}C0^*e^2L8r\pi^{\wedge-2} + 8/3^*\ln(4)^*F^{\wedge-} \\
& 6^*C0^*e^2L7r\pi^{\wedge-2} - 20/3^*\ln(4)^*F^{\wedge-6}C0^*e^2L6r\pi^{\wedge-2} + 13/9^*\ln(4)^*F^{\wedge-} \\
& 6^*C0^*e^2L5r\pi^{\wedge-2} + 10/3^*\ln(4)^*F^{\wedge-6}C0^*e^2L4r\pi^{\wedge-2} + 7/4^*\ln(4)^*F^{\wedge-}
\end{aligned}$$

$$\begin{aligned}
& 6^*C0^*e^2*L3r^*pi^-2 + \ln(4)^*F^-6^*C0^*e^2*L2r^*pi^-2 + 4^*\ln(4)^*F^-6^*C0^*e^2*L1r^*pi^-2 - 5/384^*\ln(4)^*F^-2^*e^2^*pi^-4 - 1/3^*\ln(4)^*F^-2^*e^2^*K11r^*pi^-2 \\
& - 7/27^*\ln(4)^*F^-2^*e^2^*K10r^*pi^-2 + 2/27^*\ln(4)^*F^-2^*e^2^*K9r^*pi^-2 - 1/9^*\ln(4)^*F^-2^*e^2^*K8r^*pi^-2 + 2/9^*\ln(4)^*F^-2^*e^2^*K7r^*pi^-2 \\
& + 5/18^*\ln(4)^*F^-2^*e^2^*K6r^*pi^-2 - 5/18^*\ln(4)^*F^-2^*e^2^*K5r^*pi^-2 + 1/6^*\ln(4)^*F^-2^*e^2^*K4r^*pi^-2 - 1/3^*\ln(4)^*F^-2^*e^2^*K3r^*pi^-2 + 1/3^*\ln(4)^*F^-2^*e^2^*K2r^*pi^-2 \\
& - 1/3^*\ln(4)^*F^-2^*e^2^*K1r^*pi^-2 + 257/9216^*\ln(4)^2^*F^-6^*C0^*e^2^*pi^-4 - 1/128^*\ln(4)^2^*F^-2^*e^2^*pi^-4 + 43/1536^*\ln(4)^*\ln(5)^*F^-6^*C0^*e^2^*pi^-4 \\
& - 17/4608^*\ln(4)^*\ln(6)^*F^-6^*C0^*e^2^*pi^-4 + 329/6912^*\ln(4)^*\ln(8)^*F^-6^*C0^*e^2^*pi^-4 - 1/288^*\ln(4)^*C^*F^-6^*C0^*e^2^*pi^-4 - 163/3072^*\ln(5)^*F^-6^*C0^*e^2^*pi^-4 \\
& + 121/9216^*\ln(5)^2^*F^-6^*C0^*e^2^*pi^-4 + 103/6912^*\ln(5)^*\ln(8)^*F^-6^*C0^*e^2^*pi^-4 + 2875/27648^*\ln(6)^*F^-6^*C0^*e^2^*pi^-4 + 2^*\ln(6)^*F^-6^*C0^*e^2^*L8r^*pi^-2 \\
& + 16/3^*\ln(6)^*F^-6^*C0^*e^2^*L7r^*pi^-2 - 4^*\ln(6)^*F^-6^*C0^*e^2^*L6r^*pi^-2 - 1/9^*\ln(6)^*F^-6^*C0^*e^2^*L5r^*pi^-2 - 2/3^*\ln(6)^*F^-6^*C0^*e^2^*L4r^*pi^-2 \\
& + 77/12^*\ln(6)^*F^-6^*C0^*e^2^*L3r^*pi^-2 + 11/3^*\ln(6)^*F^-6^*C0^*e^2^*L2r^*pi^-2 + 44/3^*\ln(6)^*F^-6^*C0^*e^2^*L1r^*pi^-2 + 2/27^*\ln(6)^*F^-2^*e^2^*K10r^*pi^-2 \\
& + 2/27^*\ln(6)^*F^-2^*e^2^*K9r^*pi^-2 + 2/9^*\ln(6)^*F^-2^*e^2^*K8r^*pi^-2 + 2/9^*\ln(6)^*F^-2^*e^2^*K7r^*pi^-2 - 4/27^*\ln(6)^*F^-2^*e^2^*K6r^*pi^-2 \\
& - 4/27^*\ln(6)^*F^-2^*e^2^*K5r^*pi^-2 - 1/18^*\ln(6)^*F^-2^*e^2^*K4r^*pi^-2 + 1/9^*\ln(6)^*F^-2^*e^2^*K3r^*pi^-2 - 1/3^*\ln(6)^*F^-2^*e^2^*K2r^*pi^-2 - 1/3^*\ln(6)^*F^-2^*e^2^*K1r^*pi^-2 \\
& + 131/3072^*\ln(6)^2^*F^-6^*C0^*e^2^*pi^-4 + 37/1536^*\ln(6)^*\ln(7)^*F^-6^*C0^*e^2^*pi^-4 + 163/2304^*\ln(6)^*\ln(8)^*F^-6^*C0^*e^2^*pi^-4 + 1/288^*\ln(6)^*C^*F^-6^*C0^*e^2^*pi^-4 - 93/1024^*\ln(7)^*F^-6^*C0^*e^2^*pi^-4 \\
& + 71/3072^*\ln(7)^2^*F^-6^*C0^*e^2^*pi^-4 + 199/6912^*\ln(7)^*\ln(8)^*F^-6^*C0^*e^2^*pi^-4 - 1109/15552^*\ln(8)^*F^-6^*C0^*e^2^*pi^-4 + 1096/27^*\ln(8)^*F^-6^*C0^*e^2^*L8r^*pi^-2 \\
& + 24^*\ln(8)^*F^-6^*C0^*e^2^*L7r^*pi^-2 + 176/3^*\ln(8)^*F^-6^*C0^*e^2^*L6r^*pi^-2 - 440/27^*\ln(8)^*F^-6^*C0^*e^2^*L5r^*pi^-2 - 92/3^*\ln(8)^*F^-6^*C0^*e^2^*L4r^*pi^-2 \\
& + 8^*\ln(8)^*F^-6^*C0^*e^2^*L3r^*pi^-2 + 16^*\ln(8)^*F^-6^*C0^*e^2^*L2r^*pi^-2 + 16^*\ln(8)^*F^-6^*C0^*e^2^*L1r^*pi^-2 - 32/243^*\ln(8)^*F^-2^*e^2^*K10r^*pi^-2 \\
& - 32/243^*\ln(8)^*F^-2^*e^2^*K9r^*pi^-2 - 32/81^*\ln(8)^*F^-2^*e^2^*K8r^*pi^-2 - 32/81^*\ln(8)^*F^-2^*e^2^*K7r^*pi^-2 + 8/27^*\ln(8)^*F^-2^*e^2^*K6r^*pi^-2 \\
& + 8/27^*\ln(8)^*F^-2^*e^2^*K5r^*pi^-2 + 4/27^*\ln(8)^*F^-2^*e^2^*K4r^*pi^-2 - 8/27^*\ln(8)^*F^-2^*e^2^*K3r^*pi^-2 + 16/27^*\ln(8)^*F^-2^*e^2^*K2r^*pi^-2 + 16/27^*\ln(8)^*F^-2^*e^2^*K1r^*pi^-2 + 409/5184^*\ln(8)^2^*F^-6^*C0^*e^2^*pi^-4 \\
& - 41/1536^*mL(4,2,7)^*F^-6^*C0^*e^2^*pi^-4 + 1/128^*mL(4,3,5)^*F^-6^*C0^*e^2^*pi^-4 + 1/6^*mL(4,5,8)^*F^-6^*C0^*e^2^*pi^-4 + 1/32^*mL(4,8,5)^*F^-6^*C0^*e^2^*pi^-4 \\
& - 49/6144^*mL(5,1,6)^*F^-6^*C0^*e^2^*pi^-4 + 1/18^*mL(5,4,8)^*F^-6^*C0^*e^2^*pi^-4 + 1/128^*mL(6,3,7)^*F^-6^*C0^*e^2^*pi^-4 + 1/32^*mL(6,8,7)^*F^-6^*C0^*e^2^*pi^-4 \\
& + 77/2304^*C^*F^-6^*C0^*e^2^*pi^-4 + 32/3^*C^*F^-6^*C0^*e^2^*L8r^*pi^-2 + 32/3^*C^*F^-6^*C0^*e^2^*L7r^*pi^-2 + 32/3^*C^*F^-6^*C0^*e^2^*L6r^*pi^-2 - 46/9^*C^*F^-6^*C0^*e^2^*L5r^*pi^-2 - 28/3^*C^*F^-6^*C0^*e^2^*L4r^*pi^-2 \\
& + 14/3^*C^*F^-6^*C0^*e^2^*L3r^*pi^-2 + 8/3^*C^*F^-6^*C0^*e^2^*L2r^*pi^-2 + 32/3^*C^*F^-6^*C0^*e^2^*L1r^*pi^-2 + 1/384^*C^*F^-2^*e^2^*pi^-4 + 1/3^*C^*F^-2^*e^2^*K11r^*pi^-2 \\
& + 131/243^*C^*F^-2^*e^2^*K10r^*pi^-2 + 50/243^*C^*F^-2^*e^2^*K9r^*pi^-2 + 77/81^*C^*F^-2^*e^2^*K8r^*pi^-2 + 50/81^*C^*F^-2^*e^2^*K7r^*pi^-2 - 125/162^*C^*F^-2^*e^2^*K6r^*pi^-2 - 35/162^*C^*F^-2^*e^2^*K5r^*pi^-2 -
\end{aligned}$$

$$\begin{aligned}
& 35/81 * C * F^{-2} * e^{2 * K4r * \pi^{-2}} + 70/81 * C * F^{-2} * e^{2 * K3r * \pi^{-2}} - 104/81 * C * F^{-2} * e^{2 * K2r * \pi^{-2}} - 50/81 * C * F^{-2} * e^{2 * K1r * \pi^{-2}} + 65/3456 * C^2 * F^{-6} * C0 * e^{2 * \pi^{-4}} + 1/128 * C^2 * F^{-2} * e^{2 * \pi^{-4}} \\
& + mkp2^3 * (- 1/256 * mL(4,3,5) * F^{-6} * C0 * e^{2 * \pi^{-4}} * mpo2^{-1} - 7/128 * mL(4,8,5) * F^{-6} * C0 * e^{2 * \pi^{-4}} * me2^{-1} * \pi^{-4} - 1/256 * mL(6,3,7) * F^{-6} * C0 * e^{2 * \pi^{-4}} * mpo2^{-1} - 7/128 * mL(6,8,7) * F^{-6} * C0 * e^{2 * \pi^{-4}} * me2^{-1} * \pi^{-4}) \\
& + mpp2 * (- 1/576 * \ln(1) * mm(1) * mm(2) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 17/3072 * \ln(1) * mm(1) * mm(5) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 17/3072 * \ln(1) * mm(1) * mm(6) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 1/576 * \ln(1) * mm(1) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 17/3072 * \ln(2) * mm(2) * mm(4) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 17/3072 * \ln(2) * mm(2) * mm(7) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 1/576 * \ln(2) * mm(2) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 7/3072 * \ln(3) * mm(3) * mm(4) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 7/3072 * \ln(3) * mm(3) * mm(5) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 7/3072 * \ln(3) * mm(3) * mm(6) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 7/3072 * \ln(3) * mm(3) * mm(7) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 1/576 * \ln(3) * mm(3) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 19/1536 * \ln(4) * mm(4) * mm(5) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 17/3072 * \ln(4) * mm(4) * mm(7) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 3/256 * \ln(4) * mm(4) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 17/3072 * \ln(5) * mm(5) * mm(6) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 3/256 * \ln(5) * mm(5) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 19/1536 * \ln(6) * mm(6) * mm(7) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 3/256 * \ln(6) * mm(6) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 3/1024 * \ln(8) * mm(4) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 3/1024 * \ln(8) * mm(5) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 3/1024 * \ln(8) * mm(6) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 3/1024 * \ln(8) * mm(7) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 1/16 * mL(4,5,8) * mm(4) * mm(5) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 13/2304 * mm(1) * mm(2) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 221/12288 * mm(1) * mm(5) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 221/12288 * mm(1) * mm(6) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 13/2304 * mm(1) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 221/12288 * mm(2) * mm(4) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 221/12288 * mm(2) * mm(7) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 13/2304 * mm(2) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 91/12288 * mm(3) * mm(4) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 91/12288 * mm(3) * mm(5) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 91/12288 * mm(3) * mm(6) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 91/12288 * mm(3) * mm(7) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 13/2304 * mm(3) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 247/6144 * mm(4) * mm(5) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 221/12288 * mm(4) * mm(7) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 195/4096 * mm(4) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 221/12288 * mm(5) * mm(6) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 117/4096 * mm(5) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 247/6144 * mm(6) * mm(7) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 195/4096 * mm(6) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} - 117/4096 * mm(7) * mm(8) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 4/3 * HH1b(1,5,6,plext.plext) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 4/3 * HH1b(2,4,7,plext.plext) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 2/3 * HH1b(3,4,5,plext.plext) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 2/3 * HH1b(3,6,7,plext.plext) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 14/3 * HH1b(4,5,8,plext.plext) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 14/3 * HH1b(5,4,8,plext.plext) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 14/3 * HH1b(6,7,8,plext.plext) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 14/3 * HH1b(7,6,8,plext.plext) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 3/2 * H21b(1,5,6,plext.plext) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 3/2 * H21b(2,4,7,plext.plext) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 3/4 * H21b(3,4,5,plext.plext) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 3/4 * H21b(3,6,7,plext.plext) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 9/4 * H21b(8,4,5,plext.plext) * F^{-6} * C0 * e^{2 * \pi^{-4}} + 9/4 * H21b(8,6,7,plext.plext) * F^{-6} * C0 * e^{2 * \pi^{-4}}) \\
& + mpp2 * mkp2 * (+ 18985/331776 * F^{-6} * C0 * e^{2 * \pi^{-4}} - 1351/55296 * F^{-6} * C0 * e^{2 * \pi^{-2}} - 160/27 * F^{-6} * C0 * e^{2 * L8r * \pi^{-2}} - 16/3 * F^{-6} * C0 * e^{2 * L7r * \pi^{-2}} - 16/3 * F^{-6} * C0 * e^{2 * L6r * \pi^{-2}} + 56/27 * F^{-6} * C0 * e^{2 * L5r * \pi^{-2}} - 10240/9 * F^{-6} * C0 * e^{2 * L5r * L8r} - 4096/3 * F^{-6} * C0 * e^{2 * L5r * L7r} - 1024/3 * F^{-6} * C0 * e^{2 * \pi^{-2}})
\end{aligned}$$

$$\begin{aligned}
& 6^*C0^*e^2^*L5r^*L6r + 1024/3^*F^-6^*C0^*e^2^*L5r^2 + 8/3^*F^-6^*C0^*e^2^*L4r^*pi^-2 \\
& - 5120/3^*F^-6^*C0^*e^2^*L4r^*L8r - 4096^*F^-6^*C0^*e^2^*L4r^*L7r + 2048^*F^-6^*C0^*e^2^*L4r^*L6r \\
& + 1024/3^*F^-6^*C0^*e^2^*L4r^*L5r - 1024^*F^-6^*C0^*e^2^*L4r^2 \\
& + 17/36^*F^-6^*C0^*e^2^*L3r^*pi^-2 + F^-6^*C0^*e^2^*L2r^*pi^-2 + 4/3^*F^-6^*C0^*e^2^*L1r^*pi^-2 \\
& + 2048/3^*F^-6^*C0^*CC33^*e^2 + 1280/3^*F^-6^*C0^*CC32^*e^2 \\
& + 512^*F^-6^*C0^*CC31^*e^2 - 768^*F^-6^*C0^*CC21^*e^2 + 512^*F^-6^*C0^*CC20^*e^2 \\
& + 768^*F^-6^*C0^*CC19^*e^2 - 512/3^*F^-6^*C0^*CC18^*e^2 - 1280/9^*F^-6^*C0^*CC17^*e^2 \\
& - 256/3^*F^-6^*C0^*CC16^*e^2 - 128/3^*F^-6^*C0^*CC15^*e^2 - 1280/9^*F^-6^*C0^*CC14^*e^2 \\
& - 256/3^*F^-6^*C0^*CC13^*e^2 - 512/3^*F^-6^*C0^*CC12^*e^2 + 37/486^*F^-2^*e^2^*K10r^*pi^-2 + 37/486^*F^-2^*e^2^*K9r^*pi^-2 \\
& + 11/81^*F^-2^*e^2^*K8r^*pi^-2 + 11/81^*F^-2^*e^2^*K7r^*pi^-2 - 11/162^*F^-2^*e^2^*K6r^*pi^-2 \\
& - 11/162^*F^-2^*e^2^*K5r^*pi^-2 - 11/324^*F^-2^*e^2^*K4r^*pi^-2 + 11/162^*F^-2^*e^2^*K3r^*pi^-2 \\
& - 11/81^*F^-2^*e^2^*K2r^*pi^-2 - 11/81^*F^-2^*e^2^*K1r^*pi^-2 + 512/9^*F^-2^*e^2^*L8r^*K6r \\
& + 512/9^*F^-2^*e^2^*L8r^*K5r + 256/9^*F^-2^*e^2^*L8r^*K4r - 512/9^*F^-2^*e^2^*L8r^*K3r + 1024/9^*F^-2^*e^2^*L8r^*K2r \\
& + 1024/9^*F^-2^*e^2^*L8r^*K1r + 1024/9^*F^-2^*e^2^*L7r^*K6r + 1024/9^*F^-2^*e^2^*L7r^*K5r \\
& + 512/9^*F^-2^*e^2^*L7r^*K4r - 1024/9^*F^-2^*e^2^*L7r^*K3r + 2048/9^*F^-2^*e^2^*L7r^*K2r \\
& + 2048/9^*F^-2^*e^2^*L7r^*K1r - 128/9^*F^-2^*e^2^*L6r^*K6r - 128/9^*F^-2^*e^2^*L6r^*K5r - 64/9^*F^-2^*e^2^*L6r^*K4r \\
& + 128/9^*F^-2^*e^2^*L6r^*K3r - 256/9^*F^-2^*e^2^*L6r^*K2r - 256/9^*F^-2^*e^2^*L6r^*K1r \\
& + 128/81^*F^-2^*e^2^*L5r^*K10r + 128/81^*F^-2^*e^2^*L5r^*K9r + 512/27^*F^-2^*e^2^*L5r^*K8r \\
& + 512/27^*F^-2^*e^2^*L5r^*K7r - 512/27^*F^-2^*e^2^*L5r^*K6r - 512/27^*F^-2^*e^2^*L5r^*K5r \\
& - 256/27^*F^-2^*e^2^*L5r^*K4r + 512/27^*F^-2^*e^2^*L5r^*K3r - 1024/27^*F^-2^*e^2^*L5r^*K2r - 1024/27^*F^-2^*e^2^*L5r^*K1r \\
& - 320/27^*F^-2^*e^2^*L4r^*K10r - 320/27^*F^-2^*e^2^*L4r^*K9r - 128/9^*F^-2^*e^2^*L4r^*K8r \\
& - 128/9^*F^-2^*e^2^*L4r^*K7r + 128/9^*F^-2^*e^2^*L4r^*K6r + 128/9^*F^-2^*e^2^*L4r^*K5r \\
& + 64/9^*F^-2^*e^2^*L4r^*K4r - 128/9^*F^-2^*e^2^*L4r^*K3r + 256/9^*F^-2^*e^2^*L4r^*K2r + 256/9^*F^-2^*e^2^*L4r^*K1r \\
& - 307/27648^*ln(1)^*F^-6^*C0^*e^2^*pi^-4 - 16/3^*ln(1)^*F^-6^*C0^*e^2^*L7r^*pi^-2 \\
& + 28/3^*ln(1)^*F^-6^*C0^*e^2^*L6r^*pi^-2 - 8/9^*ln(1)^*F^-6^*C0^*e^2^*L5r^*pi^-2 \\
& - 14/3^*ln(1)^*F^-6^*C0^*e^2^*L4r^*pi^-2 - 5/6^*ln(1)^*F^-2^*e^2^*K8r^*pi^-2 \\
& + 2/9^*ln(1)^*F^-2^*e^2^*K6r^*pi^-2 + 2/3^*ln(1)^*F^-2^*e^2^*K2r^*pi^-2 - 1/512^*ln(1)^2^*F^-6^*C0^*e^2^*pi^-4 \\
& + 1/768^*ln(1)^*ln(4)^*F^-6^*C0^*e^2^*pi^-4 - 1/512^*ln(1)^*ln(5)^*F^-6^*C0^*e^2^*pi^-4 \\
& + 1/512^*ln(1)^*ln(6)^*F^-6^*C0^*e^2^*pi^-4 - 7/1728^*ln(1)^*ln(8)^*F^-6^*C0^*e^2^*pi^-4 \\
& - 29/3072^*ln(2)^*F^-6^*C0^*e^2^*pi^-4 - 1/864^*ln(2)^*ln(8)^*F^-6^*C0^*e^2^*pi^-4 \\
& - 95/13824^*ln(3)^*F^-6^*C0^*e^2^*pi^-4 - 16/3^*ln(3)^*F^-6^*C0^*e^2^*L7r^*pi^-2 \\
& + 8^*ln(3)^*F^-6^*C0^*e^2^*L6r^*pi^-2 - 8/9^*ln(3)^*F^-6^*C0^*e^2^*L5r^*pi^-2 \\
& - 22/3^*ln(3)^*F^-6^*C0^*e^2^*L4r^*pi^-2 + 4/3^*ln(3)^*F^-6^*C0^*e^2^*L3r^*pi^-2 \\
& + 4/3^*ln(3)^*F^-6^*C0^*e^2^*L2r^*pi^-2 + 16/3^*ln(3)^*F^-6^*C0^*e^2^*L1r^*pi^-2 \\
& + 1/512^*ln(3)^*ln(4)^*F^-6^*C0^*e^2^*pi^-4 - 1/512^*ln(3)^*ln(5)^*F^-6^*C0^*e^2^*pi^-4 \\
& + 1/512^*ln(3)^*ln(6)^*F^-6^*C0^*e^2^*pi^-4 - 1/512^*ln(3)^*ln(7)^*F^-6^*C0^*e^2^*pi^-4 \\
& - 7/1728^*ln(3)^*ln(8)^*F^-6^*C0^*e^2^*pi^-4 + 1679/55296^*ln(4)^*F^-6^*C0^*e^2^*pi^-4 \\
& - 2^*ln(4)^*F^-6^*C0^*e^2^*L8r^*pi^-2 - 8/3^*ln(4)^*F^-6^*C0^*e^2^*L7r^*pi^-2 \\
& - 16/3^*ln(4)^*F^-6^*C0^*e^2^*L6r^*pi^-2 + 1/18^*ln(4)^*F^-6^*C0^*e^2^*L5r^*pi^-2 \\
& + 8/3^*ln(4)^*F^-6^*C0^*e^2^*L4r^*pi^-2 + 1/4^*ln(4)^*F^-2^*e^2^*K11r^*pi^-2 \\
& + 25/72^*ln(4)^*F^-2^*e^2^*K10r^*pi^-
\end{aligned}$$

$$\begin{aligned}
& 2 + 7/72*\ln(4)*F^{-2}*e^{2*K9r*\pi^{-2}} + 1/3*\ln(4)*F^{-2}*e^{2*K8r*\pi^{-2}} \\
& - 7/54*\ln(4)*F^{-2}*e^{2*K6r*\pi^{-2}} + 1/108*\ln(4)*F^{-2}*e^{2*K5r*\pi^{-2}} \\
& - 7/144*\ln(4)*F^{-2}*e^{2*K4r*\pi^{-2}} + 7/72*\ln(4)*F^{-2}*e^{2*K3r*\pi^{-2}} - \\
& 1/6*\ln(4)*F^{-2}*e^{2*K2r*\pi^{-2}} - 365/18432*\ln(4)^2*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 49/3072*\ln(4)*\ln(5)*F^{-6}*C0*e^{2*\pi^{-4}} - 25/4608*\ln(4)*\ln(6)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 29/3072*\ln(4)*\ln(7)*F^{-6}*C0*e^{2*\pi^{-4}} - 119/6912*\ln(4)*\ln(8)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 1/1152*\ln(4)*C*F^{-6}*C0*e^{2*\pi^{-4}} + 157/6144*\ln(5)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 17/2048*\ln(5)^2*F^{-6}*C0*e^{2*\pi^{-4}} - 17/3072*\ln(5)*\ln(6)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 119/13824*\ln(5)*\ln(8)*F^{-6}*C0*e^{2*\pi^{-4}} - 683/55296*\ln(6)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 4*\ln(6)*F^{-6}*C0*e^{2*L8r*\pi^{-2}} - 16/3*\ln(6)*F^{-6}*C0*e^{2*L7r*\pi^{-2}} \\
& - 2 - 8*\ln(6)*F^{-6}*C0*e^{2*L6r*\pi^{-2}} + 10/9*\ln(6)*F^{-6}*C0*e^{2*L5r*\pi^{-2}} + \\
& 20/3*\ln(6)*F^{-6}*C0*e^{2*L4r*\pi^{-2}} - 7/6*\ln(6)*F^{-6}*C0*e^{2*L3r*\pi^{-2}} \\
& - 2/3*\ln(6)*F^{-6}*C0*e^{2*L2r*\pi^{-2}} - 8/3*\ln(6)*F^{-6}*C0*e^{2*L1r*\pi^{-2}} \\
& + 1/72*\ln(6)*F^{-2}*e^{2*K10r*\pi^{-2}} + 1/72*\ln(6)*F^{-2}*e^{2*K9r*\pi^{-2}} \\
& + 1/216*\ln(6)*F^{-2}*e^{2*K6r*\pi^{-2}} + 1/216*\ln(6)*F^{-2}*e^{2*K5r*\pi^{-2}} \\
& + 1/144*\ln(6)*F^{-2}*e^{2*K4r*\pi^{-2}} - 1/72*\ln(6)*F^{-2}*e^{2*K3r*\pi^{-2}} - \\
& 187/6144*\ln(6)^2*F^{-6}*C0*e^{2*\pi^{-4}} - 23/1536*\ln(6)*\ln(7)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 73/2304*\ln(6)*\ln(8)*F^{-6}*C0*e^{2*\pi^{-4}} - 1/1152*\ln(6)*C*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 91/22048*\ln(7)*F^{-6}*C0*e^{2*\pi^{-4}} - 35/2048*\ln(7)^2*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 227/13824*\ln(7)*\ln(8)*F^{-6}*C0*e^{2*\pi^{-4}} + 3155/124416*\ln(8)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 896/27*\ln(8)*F^{-6}*C0*e^{2*L8r*\pi^{-2}} - 112/3*\ln(8)*F^{-6}*C0*e^{2*L7r*\pi^{-2}} \\
& - 24*\ln(8)*F^{-6}*C0*e^{2*L6r*\pi^{-2}} + 280/27*\ln(8)*F^{-6}*C0*e^{2*L5r*\pi^{-2}} \\
& + 34/3*\ln(8)*F^{-6}*C0*e^{2*L4r*\pi^{-2}} - 4*\ln(8)*F^{-6}*C0*e^{2*L3r*\pi^{-2}} \\
& - 8*\ln(8)*F^{-6}*C0*e^{2*L2r*\pi^{-2}} - 8*\ln(8)*F^{-6}*C0*e^{2*L1r*\pi^{-2}} \\
& + 29/486*\ln(8)*F^{-2}*e^{2*K10r*\pi^{-2}} + 29/486*\ln(8)*F^{-2}*e^{2*K9r*\pi^{-2}} \\
& + 22/81*\ln(8)*F^{-2}*e^{2*K8r*\pi^{-2}} + 22/81*\ln(8)*F^{-2}*e^{2*K7r*\pi^{-2}} \\
& - 11/54*\ln(8)*F^{-2}*e^{2*K6r*\pi^{-2}} - 11/54*\ln(8)*F^{-2}*e^{2*K5r*\pi^{-2}} \\
& - 11/108*\ln(8)*F^{-2}*e^{2*K4r*\pi^{-2}} + 11/54*\ln(8)*F^{-2}*e^{2*K3r*\pi^{-2}} \\
& - 11/27*\ln(8)*F^{-2}*e^{2*K2r*\pi^{-2}} - 11/27*\ln(8)*F^{-2}*e^{2*K1r*\pi^{-2}} \\
& - 209/5184*\ln(8)^2*F^{-6}*C0*e^{2*\pi^{-4}} + 7/192*mL(4,2,7)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 7/768*mL(4,3,5)*F^{-6}*C0*e^{2*\pi^{-4}} - 3/32*mL(4,5,8)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 1/256*mL(4,8,5)*F^{-6}*C0*e^{2*\pi^{-4}} + 11/768*mL(5,1,6)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 1/32*mL(5,4,8)*F^{-6}*C0*e^{2*\pi^{-4}} + 7/768*mL(6,3,7)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 1/256*mL(6,8,7)*F^{-6}*C0*e^{2*\pi^{-4}} - 35/3072*C*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 10*C*F^{-6}*C0*e^{2*L8r*\pi^{-2}} - 24*C*F^{-6}*C0*e^{2*L7r*\pi^{-2}} \\
& + 6*C*F^{-6}*C0*e^{2*L6r*\pi^{-2}} + 13/6*C*F^{-6}*C0*e^{2*L5r*\pi^{-2}} - \\
& 7*C*F^{-6}*C0*e^{2*L4r*\pi^{-2}} + 3/2*C*F^{-6}*C0*e^{2*L3r*\pi^{-2}} + 2*C*F^{-6}*C0*e^{2*L2r*\pi^{-2}} \\
& + 8*C*F^{-6}*C0*e^{2*L1r*\pi^{-2}} - 1/4*C*F^{-2}*e^{2*K11r*\pi^{-2}} \\
& - 191/486*C*F^{-2}*e^{2*K10r*\pi^{-2}} - 139/972*C*F^{-2}*e^{2*K9r*\pi^{-2}} \\
& + 5/81*C*F^{-2}*e^{2*K8r*\pi^{-2}} - 71/162*C*F^{-2}*e^{2*K7r*\pi^{-2}} + \\
& 79/648*C*F^{-2}*e^{2*K6r*\pi^{-2}} + 133/648*C*F^{-2}*e^{2*K5r*\pi^{-2}} + \\
& 49/324*C*F^{-2}*e^{2*K4r*\pi^{-2}} - 49/162*C*F^{-2}*e^{2*K3r*\pi^{-2}} - 5/81*C*F^{-2}*e^{2*K2r*\pi^{-2}} \\
& + 71/162*C*F^{-2}*e^{2*K1r*\pi^{-2}} - 3/512*C^2*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + mpp2^*mkp2^2 * (- 19/1536*mL(4,3,5)*F^{-6}*C0*e^{2*\pi^{-4}}*mpo2^{-1}
\end{aligned}$$

$$\begin{aligned}
& + 11/512 * mL(4,8,5) * F^{-6} * C_0 * e^{2 * me_2^{-1} * \pi^{-4}} - 19/1536 * mL(6,3,7) * F^{-6} * C_0 * e^{2 * \pi^{-4} * mpo_2^{-1}} + 11/512 * mL(6,8,7) * F^{-6} * C_0 * e^{2 * me_2^{-1} * \pi^{-4}} \\
&) \\
& + mpp_2^2 * mkp_2^{-1} * (+ 1/128 * mL(4,5,8) * mm(4) * mm(5) * F^{-6} * C_0 * e^{2 * \pi^{-4}} \\
&) \\
& + mpp_2^2 * (+ 14171/663552 * F^{-6} * C_0 * e^{2 * \pi^{-4}} + 17/6912 * F^{-6} * C_0 * e^{2 * \pi^{-2}} \\
& + 122/27 * F^{-6} * C_0 * e^{2 * L_8 * \pi^{-2}} + 8/3 * F^{-6} * C_0 * e^{2 * L_7 * \pi^{-2}} + 14/3 * F^{-6} * C_0 * e^{2 * L_6 * \pi^{-2}} - 40/27 * F^{-6} * C_0 * e^{2 * L_5 * \pi^{-2}} + 2816/9 * F^{-6} * C_0 * e^{2 * L_5 * L_8} + 2048/3 * F^{-6} * C_0 * e^{2 * L_5 * L_7} - 256/3 * F^{-6} * C_0 * e^{2 * L_5 * L_6} \\
& - 128/3 * F^{-6} * C_0 * e^{2 * L_5 * \pi^{-2}} - 2 * F^{-6} * C_0 * e^{2 * L_4 * \pi^{-2}} + 1792/3 * F^{-6} * C_0 * e^{2 * L_4 * L_8} + 2048 * F^{-6} * C_0 * e^{2 * L_4 * L_7} - 256 * F^{-6} * C_0 * e^{2 * L_4 * L_6} \\
& + 256/3 * F^{-6} * C_0 * e^{2 * L_4 * L_5} + 128 * F^{-6} * C_0 * e^{2 * L_4 * \pi^{-2}} - 5/18 * F^{-6} * C_0 * e^{2 * L_3 * \pi^{-2}} - 3/4 * F^{-6} * C_0 * e^{2 * L_2 * \pi^{-2}} - 1/6 * F^{-6} * C_0 * e^{2 * L_1 * \pi^{-2}} \\
& - 1024/3 * F^{-6} * C_0 * CC_{33} * e^2 - 448/3 * F^{-6} * C_0 * CC_{32} * e^2 - 192 * F^{-6} * C_0 * CC_{31} * e^2 + 96 * F^{-6} * C_0 * CC_{21} * e^2 - 224 * F^{-6} * C_0 * CC_{20} * e^2 \\
& - 288 * F^{-6} * C_0 * CC_{19} * e^2 + 256/3 * F^{-6} * C_0 * CC_{18} * e^2 + 352/9 * F^{-6} * C_0 * CC_{17} * e^2 + 224/3 * F^{-6} * C_0 * CC_{16} * e^2 - 32/3 * F^{-6} * C_0 * CC_{15} * e^2 \\
& + 352/9 * F^{-6} * C_0 * CC_{14} * e^2 - 64/3 * F^{-6} * C_0 * CC_{13} * e^2 + 64/3 * F^{-6} * C_0 * CC_{12} * e^2 + 1/384 * F^{-2} * e^{2 * \pi^{-4}} - 1/6 * F^{-2} * e^{2 * K_{11} * \pi^{-2}} - 113/486 * F^{-2} * e^{2 * K_{10} * \pi^{-2}} - 16/243 * F^{-2} * e^{2 * K_9 * \pi^{-2}} - 61/324 * F^{-2} * e^{2 * K_8 * \pi^{-2}} - 17/162 * F^{-2} * e^{2 * K_7 * \pi^{-2}} + 13/162 * F^{-2} * e^{2 * K_6 * \pi^{-2}} + 13/162 * F^{-2} * e^{2 * K_5 * \pi^{-2}} + 17/648 * F^{-2} * e^{2 * K_4 * \pi^{-2}} - 17/324 * F^{-2} * e^{2 * K_3 * \pi^{-2}} + 17/162 * F^{-2} * e^{2 * K_2 * \pi^{-2}} + 17/162 * F^{-2} * e^{2 * K_1 * \pi^{-2}} - 64/3 * F^{-2} * e^{2 * L_8 * K_6} - 64/3 * F^{-2} * e^{2 * L_8 * K_5} - 32/3 * F^{-2} * e^{2 * L_8 * K_4} + 64/3 * F^{-2} * e^{2 * L_8 * K_3} - 128/3 * F^{-2} * e^{2 * L_8 * K_2} - 128/3 * F^{-2} * e^{2 * L_8 * K_1} - 512/9 * F^{-2} * e^{2 * L_7 * K_6} - 512/9 * F^{-2} * e^{2 * L_7 * K_5} - 256/9 * F^{-2} * e^{2 * L_7 * K_4} + 512/9 * F^{-2} * e^{2 * L_7 * K_3} - 1024/9 * F^{-2} * e^{2 * L_7 * K_2} - 1024/9 * F^{-2} * e^{2 * L_7 * K_1} + 64/9 * F^{-2} * e^{2 * L_6 * K_6} + 64/9 * F^{-2} * e^{2 * L_6 * K_5} + 32/9 * F^{-2} * e^{2 * L_6 * K_4} - 64/9 * F^{-2} * e^{2 * L_6 * K_3} + 128/9 * F^{-2} * e^{2 * L_6 * K_2} + 128/9 * F^{-2} * e^{2 * L_6 * K_1} + 32/81 * F^{-2} * e^{2 * L_5 * K_{10}} + 32/81 * F^{-2} * e^{2 * L_5 * K_9} - 64/27 * F^{-2} * e^{2 * L_5 * K_8} - 64/27 * F^{-2} * e^{2 * L_5 * K_7} + 64/27 * F^{-2} * e^{2 * L_5 * K_6} + 64/27 * F^{-2} * e^{2 * L_5 * K_5} + 32/27 * F^{-2} * e^{2 * L_5 * K_4} - 64/27 * F^{-2} * e^{2 * L_5 * K_3} + 128/27 * F^{-2} * e^{2 * L_5 * K_2} + 128/27 * F^{-2} * e^{2 * L_5 * K_1} - 32/27 * F^{-2} * e^{2 * L_4 * K_{10}} - 32/27 * F^{-2} * e^{2 * L_4 * K_9} + 64/9 * F^{-2} * e^{2 * L_4 * K_8} + 64/9 * F^{-2} * e^{2 * L_4 * K_7} - 64/9 * F^{-2} * e^{2 * L_4 * K_6} - 64/9 * F^{-2} * e^{2 * L_4 * K_5} - 32/9 * F^{-2} * e^{2 * L_4 * K_4} + 64/9 * F^{-2} * e^{2 * L_4 * K_3} - 128/9 * F^{-2} * e^{2 * L_4 * K_2} - 128/9 * F^{-2} * e^{2 * L_4 * K_1} + 277/27648 * \ln(1) * F^{-6} * C_0 * e^{2 * \pi^{-4}} + 22/3 * \ln(1) * F^{-6} * C_0 * e^{2 * L_8 * \pi^{-2}} + 16/3 * \ln(1) * F^{-6} * C_0 * e^{2 * L_7 * \pi^{-2}} + 26/3 * \ln(1) * F^{-6} * C_0 * e^{2 * L_6 * \pi^{-2}} - 19/9 * \ln(1) * F^{-6} * C_0 * e^{2 * L_5 * \pi^{-2}} - 22/3 * \ln(1) * F^{-6} * C_0 * e^{2 * L_4 * \pi^{-2}} + \ln(1) * F^{-6} * C_0 * e^{2 * L_3 * \pi^{-2}} + \ln(1) * F^{-6} * C_0 * e^{2 * L_2 * \pi^{-2}} + 4 * \ln(1) * F^{-6} * C_0 * e^{2 * L_1 * \pi^{-2}} + 7/768 * \ln(1) * F^{-2} * e^{2 * \pi^{-4}} - 1/3 * \ln(1) * F^{-2} * e^{2 * K_{11} * \pi^{-2}} - 23/54 * \ln(1) * F^{-2} * e^{2 * K_{10} * \pi^{-2}} - 5/54 * \ln(1) * F^{-2} * e^{2 * K_9 * \pi^{-2}} - 1/36 * \ln(1) * F^{-2} * e^{2 * K_8 * \pi^{-2}} - 1/9 * \ln(1) * F^{-2} * e^{2 * K_7 * \pi^{-2}} - 2 + 7/108 * \ln(1) * F^{-2} * e^{2 * K_6 * \pi^{-2}} + 13/108 * \ln(1) * F^{-2} * e^{2 * K_5 * \pi^{-2}}
\end{aligned}$$

$$\begin{aligned}
& + 1/72*\ln(1)*F^{-2}*e^{2*K4r*\pi^{-2}} - 1/36*\ln(1)*F^{-2}*e^{2*K3r*\pi^{-2}} + \\
& 1/6*\ln(1)*F^{-2}*e^{2*K1r*\pi^{-2}} + 19/2304*\ln(1)^2*F^{-6}*C0*e^{2*\pi^{-4}} + \\
& 1/256*\ln(1)^2*F^{-2}*e^{2*\pi^{-4}} - 1/768*\ln(1)*\ln(2)*F^{-6}*C0*e^{2*\pi^{-4}} + \\
& 7/768*\ln(1)*\ln(3)*F^{-6}*C0*e^{2*\pi^{-4}} - 3/1024*\ln(1)*\ln(5)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 1/1024*\ln(1)*\ln(6)*F^{-6}*C0*e^{2*\pi^{-4}} - 7/3456*\ln(1)*\ln(8)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 31/6144*\ln(2)*F^{-6}*C0*e^{2*\pi^{-4}} - 67/18432*\ln(2)^2*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 17/6144*\ln(2)*\ln(4)*F^{-6}*C0*e^{2*\pi^{-4}} - 17/6144*\ln(2)*\ln(7)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 1/3456*\ln(2)*\ln(8)*F^{-6}*C0*e^{2*\pi^{-4}} + 245/55296*\ln(3)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 5*\ln(3)*F^{-6}*C0*e^{2*L8r*\pi^{-2}} + 16/3*\ln(3)*F^{-6}*C0*e^{2*L7r*\pi^{-2}} \\
& + 4*\ln(3)*F^{-6}*C0*e^{2*L6r*\pi^{-2}} - 29/18*\ln(3)*F^{-6}*C0*e^{2*L5r*\pi^{-2}} \\
& - 19/6*\ln(3)*F^{-6}*C0*e^{2*L4r*\pi^{-2}} + 1/6*\ln(3)*F^{-6}*C0*e^{2*L3r*\pi^{-2}} \\
& + 1/6*\ln(3)*F^{-6}*C0*e^{2*L2r*\pi^{-2}} + 2/3*\ln(3)*F^{-6}*C0*e^{2*L1r*\pi^{-2}} \\
& - 5/108*\ln(3)*F^{-2}*e^{2*K10r*\pi^{-2}} - 5/108*\ln(3)*F^{-2}*e^{2*K9r*\pi^{-2}} \\
& - 1/18*\ln(3)*F^{-2}*e^{2*K8r*\pi^{-2}} - 1/18*\ln(3)*F^{-2}*e^{2*K7r*\pi^{-2}} \\
& + 13/216*\ln(3)*F^{-2}*e^{2*K6r*\pi^{-2}} + 13/216*\ln(3)*F^{-2}*e^{2*K5r*\pi^{-2}} \\
& + 7/144*\ln(3)*F^{-2}*e^{2*K4r*\pi^{-2}} - 7/72*\ln(3)*F^{-2}*e^{2*K3r*\pi^{-2}} \\
& + 1/12*\ln(3)*F^{-2}*e^{2*K2r*\pi^{-2}} + 1/12*\ln(3)*F^{-2}*e^{2*K1r*\pi^{-2}} \\
& - 11/3072*\ln(3)^2*F^{-6}*C0*e^{2*\pi^{-4}} - 5/4096*\ln(3)*\ln(4)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 5/4096*\ln(3)*\ln(5)*F^{-6}*C0*e^{2*\pi^{-4}} + 3/4096*\ln(3)*\ln(6)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 5/4096*\ln(3)*\ln(7)*F^{-6}*C0*e^{2*\pi^{-4}} - 7/13824*\ln(3)*\ln(8)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 3/2048*\ln(4)*F^{-6}*C0*e^{2*\pi^{-4}} + 1/2048*\ln(4)^2*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 1/384*\ln(4)*\ln(5)*F^{-6}*C0*e^{2*\pi^{-4}} + 5/2048*\ln(4)*\ln(7)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 1/4096*\ln(4)*\ln(8)*F^{-6}*C0*e^{2*\pi^{-4}} + 17/6144*\ln(5)*\ln(6)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 5/4096*\ln(5)*\ln(8)*F^{-6}*C0*e^{2*\pi^{-4}} + 5/6144*\ln(6)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 9/2048*\ln(6)^2*F^{-6}*C0*e^{2*\pi^{-4}} + 7/3072*\ln(6)*\ln(7)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 9/4096*\ln(6)*\ln(8)*F^{-6}*C0*e^{2*\pi^{-4}} - 5/2048*\ln(7)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 1/2048*\ln(7)^2*F^{-6}*C0*e^{2*\pi^{-4}} + 9/4096*\ln(7)*\ln(8)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 973/497664*\ln(8)*F^{-6}*C0*e^{2*\pi^{-4}} + 205/27*\ln(8)*F^{-6}*C0*e^{2*L8r*\pi^{-2}} \\
& + 40/3*\ln(8)*F^{-6}*C0*e^{2*L7r*\pi^{-2}} + 4/3*\ln(8)*F^{-6}*C0*e^{2*L6r*\pi^{-2}} \\
& - 85/54*\ln(8)*F^{-6}*C0*e^{2*L5r*\pi^{-2}} - 1/6*\ln(8)*F^{-6}*C0*e^{2*L4r*\pi^{-2}} \\
& + 1/2*\ln(8)*F^{-6}*C0*e^{2*L3r*\pi^{-2}} + \ln(8)*F^{-6}*C0*e^{2*L2r*\pi^{-2}} \\
& + \ln(8)*F^{-6}*C0*e^{2*L1r*\pi^{-2}} - 1/486*\ln(8)*F^{-2}*e^{2*K10r*\pi^{-2}} \\
& - 1/486*\ln(8)*F^{-2}*e^{2*K9r*\pi^{-2}} - 7/162*\ln(8)*F^{-2}*e^{2*K8r*\pi^{-2}} \\
& - 7/162*\ln(8)*F^{-2}*e^{2*K7r*\pi^{-2}} + 7/216*\ln(8)*F^{-2}*e^{2*K6r*\pi^{-2}} \\
& + 7/216*\ln(8)*F^{-2}*e^{2*K5r*\pi^{-2}} + 7/432*\ln(8)*F^{-2}*e^{2*K4r*\pi^{-2}} \\
& - 7/216*\ln(8)*F^{-2}*e^{2*K3r*\pi^{-2}} + 7/108*\ln(8)*F^{-2}*e^{2*K2r*\pi^{-2}} \\
& + 7/108*\ln(8)*F^{-2}*e^{2*K1r*\pi^{-2}} + 391/82944*\ln(8)^2*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 5/512*mL(4,2,7)*F^{-6}*C0*e^{2*\pi^{-4}} - 13/3072*mL(4,3,5)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 3/256*mL(4,5,8)*F^{-6}*C0*e^{2*\pi^{-4}} - 1/1024*mL(4,8,5)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 3/256*mL(5,1,6)*F^{-6}*C0*e^{2*\pi^{-4}} + 1/256*mL(5,4,8)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& - 13/3072*mL(6,3,7)*F^{-6}*C0*e^{2*\pi^{-4}} - 1/1024*mL(6,8,7)*F^{-6}*C0*e^{2*\pi^{-4}} \\
& + 47/9216*C*F^{-6}*C0*e^{2*\pi^{-4}} + 17/3*C*F^{-6}*C0*e^{2*L8r*\pi^{-2}} \\
& + 40/3*C*F^{-6}*C0*e^{2*L7r*\pi^{-2}} - 5/3*C*F^{-6}*C0*e^{2*L6r*\pi^{-2}} \\
& - 25/18*C*F^{-6}*C0*e^{2*L5r*\pi^{-2}} + 11/6*C*F^{-6}*C0*e^{2*L4r*\pi^{-2}} - 2/3*C*F^{-6}*C0*e^{2*L3r*\pi^{-2}} \\
& - 2/3*C*F^{-6}*C0*e^{2*L2r*\pi^{-2}} - 8/3*C*F^{-6}*C0*e^{2*L1r*\pi^{-2}} - 1/384*C*F^{-2}*e^{2*\pi^{-4}} \\
& + 1/3*C*F^{-2}*e^{2*K11r*\pi^{-2}}
\end{aligned}$$

$$\begin{aligned}
& 2 + 461/972 * C * F^{-2} * e^{2 * K10r * \pi^{-2}} + 137/972 * C * F^{-2} * e^{2 * K9r * \pi^{-2}} \\
& 2 + 41/324 * C * F^{-2} * e^{2 * K8r * \pi^{-2}} + 17/81 * C * F^{-2} * e^{2 * K7r * \pi^{-2}} - \\
& 17/162 * C * F^{-2} * e^{2 * K6r * \pi^{-2}} - 13/81 * C * F^{-2} * e^{2 * K5r * \pi^{-2}} - 17/324 * C * F^{-2} \\
& 2 * e^{2 * K4r * \pi^{-2}} + 17/162 * C * F^{-2} * e^{2 * K3r * \pi^{-2}} - 7/162 * C * F^{-2} * e^{2 * K2r * \pi^{-2}} \\
& 2 - 17/81 * C * F^{-2} * e^{2 * K1r * \pi^{-2}} - 71/13824 * C^2 * F^{-6} * C0 * e^{2 * \pi^{-4}} - \\
& 1/256 * C^2 * F^{-2} * e^{2 * \pi^{-4}} \\
& + mpp2^2 * m_k2 * (- 1/1536 * mL(4,3,5) * F^{-6} * C0 * e^{2 * \pi^{-4}} * mpo2^{-1} \\
& - 1/512 * mL(4,8,5) * F^{-6} * C0 * e^{2 * me2^{-1} * \pi^{-4}} - 1/1536 * mL(6,3,7) * F^{-6} \\
& 6 * C0 * e^{2 * \pi^{-4}} * mpo2^{-1} - 1/512 * mL(6,8,7) * F^{-6} * C0 * e^{2 * me2^{-1} * \pi^{-4}} \\
&);
\end{aligned}$$

Symbols:

1. mpp2 and m_k2 referred to the bare mass of charged pion and kaon with quark mass corrections. Except for the one in two-loop EM correction, where mpp2 and m_k2 are bare mass in isospin symmetric limits.
2. mud referred to the difference between up and down quark, mud=(mu-md)/2.
3. x in sinx and cosx is the rotation angle of pion and eta, in the thesis we call it epsilon.
4. the numbers i,j,k,l in the functions, such as mass(i), ln(i), Hb(i,j,k,l) and etc. are the pNGB fields or their mass, of which 1 is charged pion, 3 is neutral pion, 4 is charged kaon, 6 is neutral kaon and 8 is eta.
5. mm(i) is the sqrt root of mass(i), mL(i,j,k) is L(i,j,k) defined in the Appendix C3.
6. F is F_0, C is C0 and C0 is C, compared to the definition in thesis.
7. m38 is the mass difference between neutral pion and eta.