Rings − 1 round

3v3

$$\left(e^{3i\gamma}\left(\cos^3(\beta)-i\sin^3(\beta)\right)\left(e^{3i\gamma}\left(\cos^3(\beta)-i\sin^3(\beta)\right)+e^{-i\gamma}\left(-3\sin^2(\beta)\cos(\beta)+3i\sin(\beta)\cos^2(\beta)\right)\right)\right.$$
$$+e^{-i\gamma}\left(-3\sin^2(\beta)\cos(\beta)+3i\sin(\beta)\cos^2(\beta)\right)\left(e^{3i\gamma}\left(-\sin^2(\beta)\cos(\beta)+i\sin(\beta)\cos^2(\beta)\right)\right.$$
$$+e^{-i\gamma}\left(-i\sin^3(\beta)+\cos^3(\beta)+2i\sin(\beta)\cos^2(\beta)-2\sin^2(\beta)\cos(\beta)\right)\bigg)\bigg)\left(e^{-3i\gamma}\left(\cos^3(\beta)\right.\right.$$
$$+i\sin^3(\beta)\Big)\left(e^{-3i\gamma}\left(\cos^3(\beta)+i\sin^3(\beta)\right)+e^{i\gamma}\left(-3\sin^2(\beta)\cos(\beta)-3i\sin(\beta)\cos^2(\beta)\right)\right)$$
$$+e^{i\gamma}\left(-3\sin^2(\beta)\cos(\beta)-3i\sin(\beta)\cos^2(\beta)\right)\left(e^{-3i\gamma}\left(-\sin^2(\beta)\cos(\beta)-i\sin(\beta)\cos^2(\beta)\right)\right.$$
$$+e^{i\gamma}\left(i\sin^3(\beta)+\cos^3(\beta)-2i\sin(\beta)\cos^2(\beta)-2\sin^2(\beta)\cos(\beta)\right)\bigg)\bigg)$$

p = 0.9999999999999957

3v1 2

$$\left(e^{3i\gamma}\left(-\sin^2(\beta)\cos(\beta)+i\sin(\beta)\cos^2(\beta)\right)\left(e^{3i\gamma}\left(\cos^3(\beta)-i\sin^3(\beta)\right)\right.\right.$$
$$+e^{-i\gamma}\left(-3\sin^2(\beta)\cos(\beta)+3i\sin(\beta)\cos^2(\beta)\right)\Big)+e^{-i\gamma}\left(-i\sin^3(\beta)+\cos^3(\beta)\right.$$
$$+2i\sin(\beta)\cos^2(\beta)-2\sin^2(\beta)\cos(\beta)\right)\left(e^{3i\gamma}\left(-\sin^2(\beta)\cos(\beta)+i\sin(\beta)\cos^2(\beta)\right)\right.$$
$$+e^{-i\gamma}\left(-i\sin^3(\beta)+\cos^3(\beta)+2i\sin(\beta)\cos^2(\beta)-2\sin^2(\beta)\cos(\beta)\right)\bigg)\bigg)\left(e^{-3i\gamma}\left(-\sin^2(\beta)\cos(\beta)\right.\right.$$
$$-i\sin(\beta)\cos^2(\beta)\right)\left(e^{-3i\gamma}\left(\cos^3(\beta)+i\sin^3(\beta)\right)+e^{i\gamma}\left(-3\sin^2(\beta)\cos(\beta)-3i\sin(\beta)\cos^2(\beta)\right)\right)$$
$$+e^{i\gamma}\left(i\sin^3(\beta)+\cos^3(\beta)-2i\sin(\beta)\cos^2(\beta)\right.$$
$$-2\sin^2(\beta)\cos(\beta)\right)\left(e^{-3i\gamma}\left(-\sin^2(\beta)\cos(\beta)-i\sin(\beta)\cos^2(\beta)\right)\right.$$
$$+e^{i\gamma}\left(i\sin^3(\beta)+\cos^3(\beta)-2i\sin(\beta)\cos^2(\beta)-2\sin^2(\beta)\cos(\beta)\right)\bigg)\bigg)$$

p = 0.9999999999999936

4v4

$$\left(-4\sin^2(\beta)\cos^2(\beta)\left(-2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta)-2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta)+\sin^4(\beta)+\cos^4(\beta)+4i\sin(\beta)\cos^3(\beta)\right.\right.$$
$$-2\sin^2(\beta)\cos^2(\beta)-4i\sin^3(\beta)\cos(\beta)\right)-2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta)\left(e^{-4i\gamma}\left(\sin^4(\beta)+\cos^4(\beta)\right)\right.$$
$$-2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta)+4i\sin(\beta)\cos^3(\beta)-4\sin^2(\beta)\cos^2(\beta)-4i\sin^3(\beta)\cos(\beta)\right)$$
$$+\left(4i\sin(\beta)\cos^3(\beta)-4i\sin^3(\beta)\cos(\beta)\right)\left(e^{-4i\gamma}\left(i\sin(\beta)\cos^3(\beta)-i\sin^3(\beta)\cos(\beta)\right)\right.$$
$$+e^{4i\gamma}\left(i\sin(\beta)\cos^3(\beta)-i\sin^3(\beta)\cos(\beta)\right)+\sin^4(\beta)+\cos^4(\beta)+2i\sin(\beta)\cos^3(\beta)-6\sin^2(\beta)\cos^2(\beta)$$
$$-2i\sin^3(\beta)\cos(\beta)\right)+e^{4i\gamma}\left(\sin^4(\beta)+\cos^4(\beta)\right)\left(e^{4i\gamma}\left(\sin^4(\beta)+\cos^4(\beta)\right)-2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta)\right.$$
$$+4i\sin(\beta)\cos^3(\beta)-4\sin^2(\beta)\cos^2(\beta)-4i\sin^3(\beta)\cos(\beta)\bigg)\bigg)\left(-4\sin^2(\beta)\cos^2(\beta)\left(-2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta)\right.\right.$$
$$-2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta)+\sin^4(\beta)+\cos^4(\beta)-4i\sin(\beta)\cos^3(\beta)-2\sin^2(\beta)\cos^2(\beta)+4i\sin^3(\beta)\cos(\beta)\right)$$
$$-2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta)\left(e^{4i\gamma}\left(\sin^4(\beta)+\cos^4(\beta)\right)-2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta)-4i\sin(\beta)\cos^3(\beta)-4\sin^2(\beta)\cos^2(\beta)\right.$$
$$+4i\sin^3(\beta)\cos(\beta)\right)+\left(4i\sin^3(\beta)\cos(\beta)-4i\sin(\beta)\cos^3(\beta)\right)\left(e^{-4i\gamma}\left(i\sin^3(\beta)\cos(\beta)-i\sin(\beta)\cos^3(\beta)\right)\right.$$
$$+e^{4i\gamma}\left(i\sin^3(\beta)\cos(\beta)-i\sin(\beta)\cos^3(\beta)\right)+\sin^4(\beta)+\cos^4(\beta)-2i\sin(\beta)\cos^3(\beta)$$
$$-6\sin^2(\beta)\cos^2(\beta)+2i\sin^3(\beta)\cos(\beta)\right)+e^{-4i\gamma}\left(\sin^4(\beta)+\cos^4(\beta)\right)\left(e^{-4i\gamma}\left(\sin^4(\beta)+\cos^4(\beta)\right)\right.$$
$$-2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta)-4i\sin(\beta)\cos^3(\beta)-4\sin^2(\beta)\cos^2(\beta)+4i\sin^3(\beta)\cos(\beta)\bigg)\bigg)$$

p = 0.9844057710087093

4v1 3

$$\left(\left(2i\cos^3(\beta)\sin(\beta) - 2i\cos(\beta)\sin^3(\beta)\right)\left(\cos^4(\beta) + 4i\sin(\beta)\cos^3(\beta) - 2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta)\right.\right.$$
$$- 2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta) - 2\sin^2(\beta)\cos^2(\beta) - 4i\sin^3(\beta)\cos(\beta) + \sin^4(\beta)\Big)$$
$$+ \left(\cos^4(\beta) - 6\sin^2(\beta)\cos^2(\beta) + \sin^4(\beta)\right)\left(\cos^4(\beta) + 2i\sin(\beta)\cos^3(\beta) - 6\sin^2(\beta)\cos^2(\beta) - 2i\sin^3(\beta)\cos(\beta)\right.$$
$$+ \sin^4(\beta) + e^{-4i\gamma}\left(i\cos^3(\beta)\sin(\beta) - i\cos(\beta)\sin^3(\beta)\right) + e^{4i\gamma}\left(i\cos^3(\beta)\sin(\beta) - i\cos(\beta)\sin^3(\beta)\right)\Big)$$
$$+ e^{-4i\gamma}\left(i\cos^3(\beta)\sin(\beta) - i\cos(\beta)\sin^3(\beta)\right)\left(4i\sin(\beta)\cos^3(\beta) - 2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta)\right.$$
$$- 4\sin^2(\beta)\cos^2(\beta) - 4i\sin^3(\beta)\cos(\beta) + e^{-4i\gamma}\left(\cos^4(\beta) + \sin^4(\beta)\right)\Big) + e^{4i\gamma}\left(i\cos^3(\beta)\sin(\beta)\right.$$
$$- i\cos(\beta)\sin^3(\beta)\Big)\left(4i\sin(\beta)\cos^3(\beta) - 2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta) - 4\sin^2(\beta)\cos^2(\beta) - 4i\sin^3(\beta)\cos(\beta)\right.$$
$$+ e^{4i\gamma}\left(\cos^4(\beta) + \sin^4(\beta)\right)\Big)\Big)\left(\left(2i\cos(\beta)\sin^3(\beta) - 2i\cos^3(\beta)\sin(\beta)\right)\left(\cos^4(\beta) - 4i\sin(\beta)\cos^3(\beta)\right.\right.$$
$$- 2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta) - 2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta) - 2\sin^2(\beta)\cos^2(\beta) + 4i\sin^3(\beta)\cos(\beta) + \sin^4(\beta)\Big)$$
$$+ \left(\cos^4(\beta) - 6\sin^2(\beta)\cos^2(\beta) + \sin^4(\beta)\right)\left(\cos^4(\beta) - 2i\sin(\beta)\cos^3(\beta) - 6\sin^2(\beta)\cos^2(\beta) + 2i\sin^3(\beta)\cos(\beta)\right.$$
$$+ \sin^4(\beta) + e^{-4i\gamma}\left(i\cos(\beta)\sin^3(\beta) - i\cos^3(\beta)\sin(\beta)\right) + e^{4i\gamma}\left(i\cos(\beta)\sin^3(\beta) - i\cos^3(\beta)\sin(\beta)\right)\Big)$$
$$+ e^{-4i\gamma}\left(i\cos(\beta)\sin^3(\beta) - i\cos^3(\beta)\sin(\beta)\right)\left(-4i\sin(\beta)\cos^3(\beta) - 2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta) - 4\sin^2(\beta)\cos^2(\beta)\right.$$
$$+ 4i\sin^3(\beta)\cos(\beta) + e^{-4i\gamma}\left(\cos^4(\beta) + \sin^4(\beta)\right)\Big) + e^{4i\gamma}\left(i\cos(\beta)\sin^3(\beta) - i\cos^3(\beta)\sin(\beta)\right)\left(-4i\sin(\beta)\cos^3(\beta)\right.$$
$$- 2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta) - 4\sin^2(\beta)\cos^2(\beta) + 4i\sin^3(\beta)\cos(\beta) + e^{4i\gamma}\left(\cos^4(\beta) + \sin^4(\beta)\right)\Big)\Big)$$

p = 0.5000000000000001

4v2 2

$$\left(-2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta)\left(e^{-4i\gamma}\left(\sin^4(\beta) + \cos^4(\beta)\right) - 2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta) + 4i\sin(\beta)\cos^3(\beta)\right.\right.$$
$$- 4\sin^2(\beta)\cos^2(\beta) - 4i\sin^3(\beta)\cos(\beta)\Big) - 2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta)\left(e^{4i\gamma}\left(\sin^4(\beta) + \cos^4(\beta)\right)\right.$$
$$- 2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta) + 4i\sin(\beta)\cos^3(\beta) - 4\sin^2(\beta)\cos^2(\beta) - 4i\sin^3(\beta)\cos(\beta)\Big)$$
$$+ \left(\sin^4(\beta) + \cos^4(\beta) - 2\sin^2(\beta)\cos^2(\beta)\right)\left(-2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta) - 2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta)\right.$$
$$+ \sin^4(\beta) + \cos^4(\beta) + 4i\sin(\beta)\cos^3(\beta) - 2\sin^2(\beta)\cos^2(\beta) - 4i\sin^3(\beta)\cos(\beta)\Big)$$
$$+ \left(4i\sin(\beta)\cos^3(\beta) - 4i\sin^3(\beta)\cos(\beta)\right)\left(e^{-4i\gamma}\left(i\sin(\beta)\cos^3(\beta) - i\sin^3(\beta)\cos(\beta)\right)\right.$$
$$+ e^{4i\gamma}\left(i\sin(\beta)\cos^3(\beta) - i\sin^3(\beta)\cos(\beta)\right) + \sin^4(\beta) + \cos^4(\beta) + 2i\sin(\beta)\cos^3(\beta) - 6\sin^2(\beta)\cos^2(\beta)$$
$$- 2i\sin^3(\beta)\cos(\beta)\Big)\Big)\left(-2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta)\left(e^{-4i\gamma}\left(\sin^4(\beta) + \cos^4(\beta)\right) - 2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta)\right.\right.$$
$$- 4i\sin(\beta)\cos^3(\beta) - 4\sin^2(\beta)\cos^2(\beta) + 4i\sin^3(\beta)\cos(\beta)\Big) - 2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta)\left(e^{4i\gamma}\left(\sin^4(\beta) + \cos^4(\beta)\right)\right.$$
$$- 2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta) - 4i\sin(\beta)\cos^3(\beta) - 4\sin^2(\beta)\cos^2(\beta) + 4i\sin^3(\beta)\cos(\beta)\Big)$$
$$+ \left(\sin^4(\beta) + \cos^4(\beta) - 2\sin^2(\beta)\cos^2(\beta)\right)\left(-2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta) - 2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta)\right.$$
$$+ \sin^4(\beta) + \cos^4(\beta) - 4i\sin(\beta)\cos^3(\beta) - 2\sin^2(\beta)\cos^2(\beta) + 4i\sin^3(\beta)\cos(\beta)\Big) + \left(4i\sin^3(\beta)\cos(\beta)\right.$$
$$- 4i\sin(\beta)\cos^3(\beta)\Big)\left(e^{-4i\gamma}\left(i\sin^3(\beta)\cos(\beta) - i\sin(\beta)\cos^3(\beta)\right) + e^{4i\gamma}\left(i\sin^3(\beta)\cos(\beta) - i\sin(\beta)\cos^3(\beta)\right)\right.$$
$$+ \sin^4(\beta) + \cos^4(\beta) - 2i\sin(\beta)\cos^3(\beta) - 6\sin^2(\beta)\cos^2(\beta) + 2i\sin^3(\beta)\cos(\beta)\Big)\Big)$$

p = 0.4999999999999988

4v1 1 1 1

$$\left(-4\sin^2(\beta)\cos^2(\beta)\left(-2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta) - 2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta) + \sin^4(\beta) + \cos^4(\beta)\right.\right.$$
$$+ 4i\sin(\beta)\cos^3(\beta) - 2\sin^2(\beta)\cos^2(\beta) - 4i\sin^3(\beta)\cos(\beta)\Big) - 2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta)\left(e^{4i\gamma}\left(\sin^4(\beta) + \cos^4(\beta)\right)\right.$$
$$- 2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta) + 4i\sin(\beta)\cos^3(\beta) - 4\sin^2(\beta)\cos^2(\beta) - 4i\sin^3(\beta)\cos(\beta)\Big)$$
$$+ \left(4i\sin(\beta)\cos^3(\beta) - 4i\sin^3(\beta)\cos(\beta)\right)\left(e^{-4i\gamma}\left(i\sin(\beta)\cos^3(\beta) - i\sin^3(\beta)\cos(\beta)\right)\right.$$
$$+ e^{4i\gamma}\left(i\sin(\beta)\cos^3(\beta) - i\sin^3(\beta)\cos(\beta)\right) + \sin^4(\beta) + \cos^4(\beta) + 2i\sin(\beta)\cos^3(\beta) - 6\sin^2(\beta)\cos^2(\beta)$$
$$- 2i\sin^3(\beta)\cos(\beta)\Big) + e^{-4i\gamma}\left(\sin^4(\beta) + \cos^4(\beta)\right)\left(e^{-4i\gamma}\left(\sin^4(\beta) + \cos^4(\beta)\right) - 2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta)\right.$$
$$+ 4i\sin(\beta)\cos^3(\beta) - 4\sin^2(\beta)\cos^2(\beta) - 4i\sin^3(\beta)\cos(\beta)\Big)\Big)\left(-4\sin^2(\beta)\cos^2(\beta)\left(-2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta)\right.\right.$$
$$- 2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta) + \sin^4(\beta) + \cos^4(\beta) - 4i\sin(\beta)\cos^3(\beta) - 2\sin^2(\beta)\cos^2(\beta) + 4i\sin^3(\beta)\cos(\beta)\Big)$$
$$- 2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta)\left(e^{-4i\gamma}\left(\sin^4(\beta) + \cos^4(\beta)\right) - 2e^{4i\gamma}\sin^2(\beta)\cos^2(\beta) - 4i\sin(\beta)\cos^3(\beta) - 4\sin^2(\beta)\cos^2(\beta)\right.$$
$$+ 4i\sin^3(\beta)\cos(\beta)\Big) + \left(4i\sin^3(\beta)\cos(\beta) - 4i\sin(\beta)\cos^3(\beta)\right)\left(e^{-4i\gamma}\left(i\sin^3(\beta)\cos(\beta) - i\sin(\beta)\cos^3(\beta)\right)\right.$$
$$+ e^{4i\gamma}\left(i\sin^3(\beta)\cos(\beta) - i\sin(\beta)\cos^3(\beta)\right) + \sin^4(\beta) + \cos^4(\beta) - 2i\sin(\beta)\cos^3(\beta)$$
$$- 6\sin^2(\beta)\cos^2(\beta) + 2i\sin^3(\beta)\cos(\beta)\Big) + e^{4i\gamma}\left(\sin^4(\beta) + \cos^4(\beta)\right)\left(e^{4i\gamma}\left(\sin^4(\beta) + \cos^4(\beta)\right)\right.$$
$$- 2e^{-4i\gamma}\sin^2(\beta)\cos^2(\beta) - 4i\sin(\beta)\cos^3(\beta) - 4\sin^2(\beta)\cos^2(\beta) + 4i\sin^3(\beta)\cos(\beta)\Big)\Big)$$

p = 0.9844057710087125

5v5

$$\left(e^{-5i\gamma}\left(\cos^5(\beta)-i\sin^5(\beta)\right)\left(e^{3i\gamma}\left(5i\cos^2(\beta)\sin^3(\beta)-5\cos^3(\beta)\sin^2(\beta)\right)\right.\right.$$
$$+ e^{-i\gamma}\left(-5i\sin(\beta)\cos^4(\beta)-5\sin^2(\beta)\cos^3(\beta)+5i\sin^3(\beta)\cos^2(\beta)+5\sin^4(\beta)\cos(\beta)\right)$$
$$+ e^{-5i\gamma}\left(\cos^5(\beta)-i\sin^5(\beta)\right)\right)$$
$$+ e^{3i\gamma}\left(5i\cos^2(\beta)\sin^3(\beta)-5\cos^3(\beta)\sin^2(\beta)\right)\left(e^{-5i\gamma}\left(i\cos^2(\beta)\sin^3(\beta)-\cos^3(\beta)\sin^2(\beta)\right)\right.$$
$$+ e^{-i\gamma}\left(-3i\sin(\beta)\cos^4(\beta)-7\sin^2(\beta)\cos^3(\beta)+7i\sin^3(\beta)\cos^2(\beta)+3\sin^4(\beta)\cos(\beta)\right)$$
$$+ e^{3i\gamma}\left(\cos^5(\beta)-2i\sin(\beta)\cos^4(\beta)-2\sin^2(\beta)\cos^3(\beta)+2i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)-i\sin^5(\beta)\right)\right)$$
$$+ e^{-i\gamma}\left(5\cos(\beta)\sin^4(\beta)-5i\cos^4(\beta)\sin(\beta)\right)\left(e^{-5i\gamma}\left(\cos(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin(\beta)\right)\right.$$
$$+ e^{3i\gamma}\left(-2i\sin(\beta)\cos^4(\beta)-3\sin^2(\beta)\cos^3(\beta)+3i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)\right)$$
$$+ e^{-i\gamma}\left(\cos^5(\beta)-2i\sin(\beta)\cos^4(\beta)-7\sin^2(\beta)\cos^3(\beta)+7i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)-i\sin^5(\beta)\right)\right)$$
$$+ e^{-i\gamma}\left(5i\cos^2(\beta)\sin^3(\beta)-5\cos^3(\beta)\sin^2(\beta)\right)\left(e^{-5i\gamma}\left(i\cos^2(\beta)\sin^3(\beta)-\cos^3(\beta)\sin^2(\beta)\right)\right.$$
$$+ e^{3i\gamma}\left(-i\sin(\beta)\cos^4(\beta)-4\sin^2(\beta)\cos^3(\beta)+4i\sin^3(\beta)\cos^2(\beta)+\sin^4(\beta)\cos(\beta)\right)$$
$$+ e^{-i\gamma}\left(\cos^5(\beta)-4i\sin(\beta)\cos^4(\beta)-5\sin^2(\beta)\cos^3(\beta)+5i\sin^3(\beta)\cos^2(\beta)+4\sin^4(\beta)\cos(\beta)-i\sin^5(\beta)\right)\right)\right)\left(e^{5i\gamma}\left(\cos^5(\beta)\right.\right.$$
$$+ i\sin^5(\beta)\right)\left(e^{-3i\gamma}\left(-5\sin^2(\beta)\cos^3(\beta)-5i\sin^3(\beta)\cos^2(\beta)\right)\right.$$
$$+ e^{i\gamma}\left(5i\sin(\beta)\cos^4(\beta)-5\sin^2(\beta)\cos^3(\beta)-5i\sin^3(\beta)\cos^2(\beta)+5\sin^4(\beta)\cos(\beta)\right)+e^{5i\gamma}\left(\cos^5(\beta)+i\sin^5(\beta)\right)\right)$$
$$+ e^{-3i\gamma}\left(-5\sin^2(\beta)\cos^3(\beta)-5i\sin^3(\beta)\cos^2(\beta)\right)\left(e^{5i\gamma}\left(-\sin^2(\beta)\cos^3(\beta)-i\sin^3(\beta)\cos^2(\beta)\right)\right.$$
$$+ e^{i\gamma}\left(3i\sin(\beta)\cos^4(\beta)-7\sin^2(\beta)\cos^3(\beta)-7i\sin^3(\beta)\cos^2(\beta)+3\sin^4(\beta)\cos(\beta)\right)+e^{-3i\gamma}\left(\cos^5(\beta)+2i\sin(\beta)\cos^4(\beta)-2\sin^2(\beta)\right.$$
$$+ e^{i\gamma}\left(5i\sin(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos(\beta)\right)\left(e^{5i\gamma}\left(i\sin(\beta)\cos^4(\beta)+\sin^4(\beta)\cos(\beta)\right)+e^{-3i\gamma}\left(2i\sin(\beta)\cos^4(\beta)-3\sin^2(\beta)\cos^3(\beta)\right.\right.$$
$$+ e^{i\gamma}\left(\cos^5(\beta)+2i\sin(\beta)\cos^4(\beta)-7\sin^2(\beta)\cos^3(\beta)-7i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)+i\sin^5(\beta)\right)\right)+e^{i\gamma}\left(-5\sin^2(\beta)\cos^3(\beta)\right.$$
$$- 5i\sin^3(\beta)\cos^2(\beta)\right)\left(e^{5i\gamma}\left(-\sin^2(\beta)\cos^3(\beta)-i\sin^3(\beta)\cos^2(\beta)\right)+e^{-3i\gamma}\left(i\sin(\beta)\cos^4(\beta)-4\sin^2(\beta)\cos^3(\beta)-4i\sin^3(\beta)\cos^2(\beta)\right.$$
$$+ e^{i\gamma}\left(\cos^5(\beta)+4i\sin(\beta)\cos^4(\beta)-5\sin^2(\beta)\cos^3(\beta)-5i\sin^3(\beta)\cos^2(\beta)+4\sin^4(\beta)\cos(\beta)+i\sin^5(\beta)\right)\right)\right)$$

p = 0.9999999999999285

5v1 4

$$\left(e^{-5i\gamma}\left(\cos(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin(\beta)\right)\left(e^{3i\gamma}\left(5i\cos^2(\beta)\sin^3(\beta)-5\cos^3(\beta)\sin^2(\beta)\right)\right.\right.$$
$$+ e^{-i\gamma}\left(-5i\sin(\beta)\cos^4(\beta)-5\sin^2(\beta)\cos^3(\beta)+5i\sin^3(\beta)\cos^2(\beta)+5\sin^4(\beta)\cos(\beta)\right)$$
$$+ e^{-5i\gamma}\left(\cos^5(\beta)-i\sin^5(\beta)\right)\right)+e^{3i\gamma}\left(-2i\sin(\beta)\cos^4(\beta)-3\sin^2(\beta)\cos^3(\beta)\right.$$
$$+ 3i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)\right)\left(e^{-5i\gamma}\left(i\cos^2(\beta)\sin^3(\beta)-\cos^3(\beta)\sin^2(\beta)\right)\right.$$
$$+ e^{-i\gamma}\left(-3i\sin(\beta)\cos^4(\beta)-7\sin^2(\beta)\cos^3(\beta)+7i\sin^3(\beta)\cos^2(\beta)+3\sin^4(\beta)\cos(\beta)\right)$$
$$+ e^{3i\gamma}\left(\cos^5(\beta)-2i\sin(\beta)\cos^4(\beta)-2\sin^2(\beta)\cos^3(\beta)+2i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)-i\sin^5(\beta)\right)\right)$$
$$+ e^{-i\gamma}\left(\cos^5(\beta)-4\sin^2(\beta)\cos^3(\beta)+4i\sin^3(\beta)\cos^2(\beta)-i\sin^5(\beta)\right)\left(e^{-5i\gamma}\left(\cos(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin(\beta)\right)\right.$$
$$+ e^{3i\gamma}\left(-2i\sin(\beta)\cos^4(\beta)-3\sin^2(\beta)\cos^3(\beta)+3i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)\right)$$
$$+ e^{-i\gamma}\left(\cos^5(\beta)-2i\sin(\beta)\cos^4(\beta)-7\sin^2(\beta)\cos^3(\beta)+7i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)-i\sin^5(\beta)\right)\right)$$
$$+ e^{-i\gamma}\left(-2i\sin(\beta)\cos^4(\beta)-3\sin^2(\beta)\cos^3(\beta)+3i\sin^3(\beta)\cos^2(\beta)\right.$$
$$+ 2\sin^4(\beta)\cos(\beta)\right)\left(e^{-5i\gamma}\left(i\cos^2(\beta)\sin^3(\beta)-\cos^3(\beta)\sin^2(\beta)\right)\right.$$
$$+ e^{3i\gamma}\left(-i\sin(\beta)\cos^4(\beta)-4\sin^2(\beta)\cos^3(\beta)+4i\sin^3(\beta)\cos^2(\beta)+\sin^4(\beta)\cos(\beta)\right)$$
$$+ e^{-i\gamma}\left(\cos^5(\beta)-4i\sin(\beta)\cos^4(\beta)-5\sin^2(\beta)\cos^3(\beta)+5i\sin^3(\beta)\cos^2(\beta)+4\sin^4(\beta)\cos(\beta)-i\sin^5(\beta)\right)\right)\right)\left(e^{5i\gamma}\left(i\sin(\beta)\cos^4(\beta)\right.\right.$$
$$+ \sin^4(\beta)\cos(\beta)\right)\left(e^{-3i\gamma}\left(-5\sin^2(\beta)\cos^3(\beta)-5i\sin^3(\beta)\cos^2(\beta)\right)+e^{i\gamma}\left(5i\sin(\beta)\cos^4(\beta)-5\sin^2(\beta)\cos^3(\beta)-5i\sin^3(\beta)\cos^2(\beta)\right.$$
$$+ e^{5i\gamma}\left(\cos^5(\beta)+i\sin^5(\beta)\right)\right)$$
$$+ e^{-3i\gamma}\left(2i\sin(\beta)\cos^4(\beta)-3\sin^2(\beta)\cos^3(\beta)-3i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)\right)\left(e^{5i\gamma}\left(-\sin^2(\beta)\cos^3(\beta)-i\sin^3(\beta)\cos^2(\beta)\right.\right.$$
$$+ e^{i\gamma}\left(3i\sin(\beta)\cos^4(\beta)-7\sin^2(\beta)\cos^3(\beta)-7i\sin^3(\beta)\cos^2(\beta)+3\sin^4(\beta)\cos(\beta)\right)+e^{-3i\gamma}\left(\cos^5(\beta)+2i\sin(\beta)\cos^4(\beta)-2\sin^2(\beta)\right.$$
$$+ e^{i\gamma}\left(\cos^5(\beta)-4\sin^2(\beta)\cos^3(\beta)-4i\sin^3(\beta)\cos^2(\beta)+i\sin^5(\beta)\right)\left(e^{5i\gamma}\left(i\sin(\beta)\cos^4(\beta)+\sin^4(\beta)\cos(\beta)\right)+e^{-3i\gamma}\left(2i\sin(\beta)\cos\right.\right.$$
$$+ e^{i\gamma}\left(\cos^5(\beta)+2i\sin(\beta)\cos^4(\beta)-7\sin^2(\beta)\cos^3(\beta)-7i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)+i\sin^5(\beta)\right)\right)$$
$$+ e^{i\gamma}\left(2i\sin(\beta)\cos^4(\beta)-3\sin^2(\beta)\cos^3(\beta)-3i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)\right)\left(e^{5i\gamma}\left(-\sin^2(\beta)\cos^3(\beta)-i\sin^3(\beta)\cos^2(\beta)\right)\right.$$
$$+ e^{-3i\gamma}\left(i\sin(\beta)\cos^4(\beta)-4\sin^2(\beta)\cos^3(\beta)-4i\sin^3(\beta)\cos^2(\beta)+\sin^4(\beta)\cos(\beta)\right)+e^{i\gamma}\left(\cos^5(\beta)+4i\sin(\beta)\cos^4(\beta)-5\sin^2(\beta)\right.$$

p = 0.5120991086296732

5v2 3

$$\left(e^{-5i\gamma}\left(i\cos^2(\beta)\sin^3(\beta)-\cos^3(\beta)\sin^2(\beta)\right)\left(e^{3i\gamma}\left(5i\cos^2(\beta)\sin^3(\beta)-5\cos^3(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{-i\gamma}\left(-5i\sin(\beta)\cos^4(\beta)-5\sin^2(\beta)\cos^3(\beta)+5i\sin^3(\beta)\cos^2(\beta)+5\sin^4(\beta)\cos(\beta)\right)$$
$$+e^{-5i\gamma}\left(\cos^5(\beta)-i\sin^5(\beta)\right)\right)+e^{3i\gamma}\left(-i\sin(\beta)\cos^4(\beta)-4\sin^2(\beta)\cos^3(\beta)\right.$$
$$+4i\sin^3(\beta)\cos^2(\beta)+\sin^4(\beta)\cos(\beta)\right)\left(e^{-5i\gamma}\left(i\cos^2(\beta)\sin^3(\beta)-\cos^3(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{-i\gamma}\left(-3i\sin(\beta)\cos^4(\beta)-7\sin^2(\beta)\cos^3(\beta)+7i\sin^3(\beta)\cos^2(\beta)+3\sin^4(\beta)\cos(\beta)\right)$$
$$+e^{3i\gamma}\left(\cos^5(\beta)-2i\sin(\beta)\cos^4(\beta)-2\sin^2(\beta)\cos^3(\beta)+2i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)-i\sin^5(\beta)\right)\right)$$
$$+e^{-i\gamma}\left(-2i\sin(\beta)\cos^4(\beta)-3\sin^2(\beta)\cos^3(\beta)+3i\sin^3(\beta)\cos^2(\beta)\right.$$
$$+2\sin^4(\beta)\cos(\beta)\right)\left(e^{-5i\gamma}\left(\cos(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin(\beta)\right)\right.$$
$$+e^{3i\gamma}\left(-2i\sin(\beta)\cos^4(\beta)-3\sin^2(\beta)\cos^3(\beta)+3i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)\right)$$
$$+e^{-i\gamma}\left(\cos^5(\beta)-2i\sin(\beta)\cos^4(\beta)-7\sin^2(\beta)\cos^3(\beta)+7i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)-i\sin^5(\beta)\right)\right)$$
$$+e^{-i\gamma}\left(\cos^5(\beta)-2i\sin(\beta)\cos^4(\beta)-2\sin^2(\beta)\cos^3(\beta)+2i\sin^3(\beta)\cos^2(\beta)\right.$$
$$+2\sin^4(\beta)\cos(\beta)-i\sin^5(\beta)\right)\left(e^{-5i\gamma}\left(i\cos^2(\beta)\sin^3(\beta)-\cos^3(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{3i\gamma}\left(-i\sin(\beta)\cos^4(\beta)-4\sin^2(\beta)\cos^3(\beta)+4i\sin^3(\beta)\cos^2(\beta)+\sin^4(\beta)\cos(\beta)\right)+e^{-i\gamma}\left(\cos^5(\beta)-4i\sin(\beta)\cos^4(\beta)-5\sin^2(\beta)\right.$$
$$\left.-i\sin^3(\beta)\cos^2(\beta)\right)\left(e^{-3i\gamma}\left(-5\sin^2(\beta)\cos^3(\beta)-5i\sin^3(\beta)\cos^2(\beta)\right)+e^{i\gamma}\left(5i\sin(\beta)\cos^4(\beta)-5\sin^2(\beta)\cos^3(\beta)-5i\sin^3(\beta)\cos\right.$$
$$+e^{5i\gamma}\left(\cos^5(\beta)+i\sin^5(\beta)\right)\right)$$
$$+e^{-3i\gamma}\left(i\sin(\beta)\cos^4(\beta)-4\sin^2(\beta)\cos^3(\beta)-4i\sin^3(\beta)\cos^2(\beta)+\sin^4(\beta)\cos(\beta)\right)\left(e^{5i\gamma}\left(-\sin^2(\beta)\cos^3(\beta)-i\sin^3(\beta)\cos^2(\beta)\right)\right.$$
$$+e^{i\gamma}\left(3i\sin(\beta)\cos^4(\beta)-7\sin^2(\beta)\cos^3(\beta)-7i\sin^3(\beta)\cos^2(\beta)+3\sin^4(\beta)\cos(\beta)\right)+e^{-3i\gamma}\left(\cos^5(\beta)+2i\sin(\beta)\cos^4(\beta)-2\sin^2(\beta)\right.$$
$$+e^{i\gamma}\left(2i\sin(\beta)\cos^4(\beta)-3\sin^2(\beta)\cos^3(\beta)-3i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)\right)\left(e^{5i\gamma}\left(i\sin(\beta)\cos^4(\beta)+\sin^4(\beta)\cos(\beta)\right)\right.$$
$$+e^{-3i\gamma}\left(2i\sin(\beta)\cos^4(\beta)-3\sin^2(\beta)\cos^3(\beta)-3i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)\right)+e^{i\gamma}\left(\cos^5(\beta)+2i\sin(\beta)\cos^4(\beta)-7\sin^2(\beta)\right.$$
$$+e^{i\gamma}\left(\cos^5(\beta)+2i\sin(\beta)\cos^4(\beta)-2\sin^2(\beta)\cos^3(\beta)-2i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)+i\sin^5(\beta)\right)\left(e^{5i\gamma}\left(-\sin^2(\beta)\cos^3(\beta)\right.\right.$$
$$+e^{-3i\gamma}\left(i\sin(\beta)\cos^4(\beta)-4\sin^2(\beta)\cos^3(\beta)-4i\sin^3(\beta)\cos^2(\beta)+\sin^4(\beta)\cos(\beta)\right)+e^{i\gamma}\left(\cos^5(\beta)+4i\sin(\beta)\cos^4(\beta)-5\sin^2(\beta)\right.$$

p = 0.650641715574195

5v1 1 1 2

$$\left(e^{-5i\gamma}\left(i\cos^2(\beta)\sin^3(\beta)-\cos^3(\beta)\sin^2(\beta)\right)\left(e^{3i\gamma}\left(5i\cos^2(\beta)\sin^3(\beta)-5\cos^3(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{-i\gamma}\left(-5i\sin(\beta)\cos^4(\beta)-5\sin^2(\beta)\cos^3(\beta)+5i\sin^3(\beta)\cos^2(\beta)+5\sin^4(\beta)\cos(\beta)\right)$$
$$+e^{-5i\gamma}\left(\cos^5(\beta)-i\sin^5(\beta)\right)\right)+e^{3i\gamma}\left(\cos^5(\beta)-2i\sin(\beta)\cos^4(\beta)-2\sin^2(\beta)\cos^3(\beta)\right.$$
$$+2i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)-i\sin^5(\beta)\right)\left(e^{-5i\gamma}\left(i\cos^2(\beta)\sin^3(\beta)-\cos^3(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{-i\gamma}\left(-3i\sin(\beta)\cos^4(\beta)-7\sin^2(\beta)\cos^3(\beta)+7i\sin^3(\beta)\cos^2(\beta)+3\sin^4(\beta)\cos(\beta)\right)$$
$$+e^{3i\gamma}\left(\cos^5(\beta)-2i\sin(\beta)\cos^4(\beta)-2\sin^2(\beta)\cos^3(\beta)+2i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)-i\sin^5(\beta)\right)\right)$$
$$+e^{-i\gamma}\left(-2i\sin(\beta)\cos^4(\beta)-3\sin^2(\beta)\cos^3(\beta)+3i\sin^3(\beta)\cos^2(\beta)\right.$$
$$+2\sin^4(\beta)\cos(\beta)\right)\left(e^{-5i\gamma}\left(\cos(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin(\beta)\right)\right.$$
$$+e^{3i\gamma}\left(-2i\sin(\beta)\cos^4(\beta)-3\sin^2(\beta)\cos^3(\beta)+3i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)\right)$$
$$+e^{-i\gamma}\left(\cos^5(\beta)-2i\sin(\beta)\cos^4(\beta)-7\sin^2(\beta)\cos^3(\beta)+7i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)-i\sin^5(\beta)\right)\right)$$
$$+e^{-i\gamma}\left(-i\sin(\beta)\cos^4(\beta)-4\sin^2(\beta)\cos^3(\beta)\right.$$
$$+4i\sin^3(\beta)\cos^2(\beta)+\sin^4(\beta)\cos(\beta)\right)\left(e^{-5i\gamma}\left(i\cos^2(\beta)\sin^3(\beta)-\cos^3(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{3i\gamma}\left(-i\sin(\beta)\cos^4(\beta)-4\sin^2(\beta)\cos^3(\beta)+4i\sin^3(\beta)\cos^2(\beta)+\sin^4(\beta)\cos(\beta)\right)+e^{-i\gamma}\left(\cos^5(\beta)-4i\sin(\beta)\cos^4(\beta)-5\sin^2(\beta)\right.$$
$$\left.-i\sin^3(\beta)\cos^2(\beta)\right)\left(e^{-3i\gamma}\left(-5\sin^2(\beta)\cos^3(\beta)-5i\sin^3(\beta)\cos^2(\beta)\right)+e^{i\gamma}\left(5i\sin(\beta)\cos^4(\beta)-5\sin^2(\beta)\cos^3(\beta)-5i\sin^3(\beta)\cos\right.$$
$$+e^{5i\gamma}\left(\cos^5(\beta)+i\sin^5(\beta)\right)\right)$$
$$+e^{-3i\gamma}\left(\cos^5(\beta)+2i\sin(\beta)\cos^4(\beta)-2\sin^2(\beta)\cos^3(\beta)-2i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)+i\sin^5(\beta)\right)\left(e^{5i\gamma}\left(-\sin^2(\beta)\cos^3\right.\right.$$
$$+e^{i\gamma}\left(3i\sin(\beta)\cos^4(\beta)-7\sin^2(\beta)\cos^3(\beta)-7i\sin^3(\beta)\cos^2(\beta)+3\sin^4(\beta)\cos(\beta)\right)+e^{-3i\gamma}\left(\cos^5(\beta)+2i\sin(\beta)\cos^4(\beta)-2\sin^2(\beta)\right.$$
$$+e^{i\gamma}\left(2i\sin(\beta)\cos^4(\beta)-3\sin^2(\beta)\cos^3(\beta)-3i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)\right)\left(e^{5i\gamma}\left(i\sin(\beta)\cos^4(\beta)+\sin^4(\beta)\cos(\beta)\right)\right.$$
$$+e^{-3i\gamma}\left(2i\sin(\beta)\cos^4(\beta)-3\sin^2(\beta)\cos^3(\beta)-3i\sin^3(\beta)\cos^2(\beta)+2\sin^4(\beta)\cos(\beta)\right)+e^{i\gamma}\left(\cos^5(\beta)+2i\sin(\beta)\cos^4(\beta)-7\sin^2(\beta)\right.$$
$$+e^{i\gamma}\left(i\sin(\beta)\cos^4(\beta)-4\sin^2(\beta)\cos^3(\beta)-4i\sin^3(\beta)\cos^2(\beta)+\sin^4(\beta)\cos(\beta)\right)\left(e^{5i\gamma}\left(-\sin^2(\beta)\cos^3(\beta)-i\sin^3(\beta)\cos^2(\beta)\right)\right.$$
$$+e^{-3i\gamma}\left(i\sin(\beta)\cos^4(\beta)-4\sin^2(\beta)\cos^3(\beta)-4i\sin^3(\beta)\cos^2(\beta)+\sin^4(\beta)\cos(\beta)\right)+e^{i\gamma}\left(\cos^5(\beta)+4i\sin(\beta)\cos^4(\beta)-5\sin^2(\beta)\right.$$

p = 0.925451915878105

6v6

$\left(2ie^{6i\gamma}\cos^3(\beta)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)\right.\right.$

$+e^{2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-6i\sin^5(\beta)\cos(\beta)\right)$

$+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\big)\sin^3(\beta)$

$+12ie^{2i\gamma}\cos^3(\beta)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$

$+e^{-2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)$

$+e^{2i\gamma}\left(\cos^6(\beta)-4i\sin(\beta)\cos^5(\beta)-5\sin^2(\beta)\cos^4(\beta)+10i\sin^3(\beta)\cos^3(\beta)+5\sin^4(\beta)\cos^2(\beta)-4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\big)\sin$

$+6ie^{-2i\gamma}\cos^3(\beta)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$

$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)$

$+e^{-2i\gamma}\left(\cos^6(\beta)-4i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+4i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\big)\sin$

$+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)\right.$

$+e^{2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)$

$+e^{-2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-6i\sin^5(\beta)\cos(\beta)\right)$

$+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\big)$

$+e^{-2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6i\sin^5(\beta)\cos(\beta)\right)\left(e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$

$+e^{-6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(-3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos$

$+e^{-2i\gamma}\left(\cos^6(\beta)-2i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\big)$

$+e^{2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos\right.\right.$

$+e^{-2i\gamma}\left(-3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-3i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)-2i\right.$

$+e^{-2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$

$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)-4i\,\right.$

$+e^{2i\gamma}\left(3\cos^2(\beta)\sin^4(\beta)-3\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-2i\gamma}\left(-2i\sin\right.\right.$

$+e^{2i\gamma}\left(\cos^6(\beta)-4i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+4i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\big)\big)\left(-\right.$

$+e^{2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)+e^{-2i\gamma}\left(6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-6i\sin^3(\beta)\,c\right.$

$+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\big)\sin^3(\beta)$

$-12ie^{-2i\gamma}\cos^3(\beta)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos\right.\right.$

$+e^{-2i\gamma}\left(\cos^6(\beta)+4i\sin(\beta)\cos^5(\beta)-5\sin^2(\beta)\cos^4(\beta)-10i\sin^3(\beta)\cos^3(\beta)+5\sin^4(\beta)\cos^2(\beta)+4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\big)\sin$

$-6ie^{2i\gamma}\cos^3(\beta)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4\right.\right.$

$+e^{2i\gamma}\left(\cos^6(\beta)+4i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)-4i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)+4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\big)\sin$

$+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)\right.$

$+e^{2i\gamma}\left(6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+6i\sin^5(\beta)\cos(\beta)\right)+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right.$

$+e^{-2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-6i\gamma}\left(i\sin(\beta)\cos^5(\beta)+i\sin^5(\beta)\cos\right.\right.$

$+e^{2i\gamma}\left(3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+3i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+2i\sin\right.$

$+e^{2i\gamma}\left(6i\sin(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos(\beta)\right)\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{6i\gamma}\left(i\sin(\beta)\cos^5(\beta)+i\sin^5(\beta)\cos(\beta\right.\right.$

$+e^{-2i\gamma}\left(3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+3i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+2i\sin\right.$

$+e^{2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$

$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)-8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$

$+e^{-2i\gamma}\left(3\cos^2(\beta)\sin^4(\beta)-3\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$

$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$

p $=$ 0.37645357223799053

$\left(e^{-6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)\right.\right.$

$+e^{2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)$

$+e^{-2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-6i\sin^5(\beta)\cos(\beta)\right)$

$+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right))+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)\right.$

$+e^{-2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)$

$+e^{2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-6i\sin^5(\beta)\cos(\beta)\right)$

$+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right))+e^{-2i\gamma}\left(\cos^6(\beta)-5\sin^2(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^2(\beta)\right.$

$\left.-\sin^6(\beta)\right)\left(e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos(\beta)\right)\right.$

$+e^{2i\gamma}\left(-3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-3i\sin^5(\beta)\cos(\beta)\right)$

$+e^{-2i\gamma}\left(\cos^6(\beta)-2i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right))$

$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^3(\beta)\right.$

$\left.-2i\sin^5(\beta)\cos(\beta)\right)\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos(\beta)\right)\right.$

$+e^{-2i\gamma}\left(-3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-3i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)-2i\right.$

$+e^{-2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\,\mathrm{s}\right.\right.$

$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)-4i\,\mathrm{s}\right.$

$+e^{2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-2i\gamma}\left(-2i\,\mathrm{si}\right.\right.$

$+e^{2i\gamma}\left(\cos^6(\beta)-4i\sin(\beta)\cos^5(\beta)-5\sin^2(\beta)\cos^4(\beta)+10i\sin^3(\beta)\cos^3(\beta)+5\sin^4(\beta)\cos^2(\beta)-4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right))$

$+e^{-2i\gamma}\left(3\cos^2(\beta)\sin^4(\beta)-3\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$

$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)-4i\right.$

$+e^{2i\gamma}\left(-i\sin(\beta)\cos^5(\beta)+4i\sin^3(\beta)\cos^3(\beta)-i\sin^5(\beta)\cos(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\right.\right.$

$+e^{-2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)-4i\right.$

$\left.-\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)+e^{-2i\gamma}\left(6i\sin\right.\right.$

$+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right))+e^{6i\gamma}\left(i\sin(\beta)\cos^5(\beta)+i\sin^5(\beta)\cos(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)-\right.\right.$

$+e^{2i\gamma}\left(6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+6i\sin^5(\beta)\cos(\beta)\right)+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right.$

$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos(\beta)\right)\left(e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-6i\gamma}\left(i\sin(\beta)\cos\right.\right.$

$+e^{2i\gamma}\left(3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+3i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+2i\,\mathrm{si}\right.$

$+e^{2i\gamma}\left(\cos^6(\beta)-5\sin^2(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^2(\beta)-\sin^6(\beta)\right)\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{6i\gamma}\left(i\sin(\beta)\cos^5\right.\right.$

$+e^{-2i\gamma}\left(3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+3i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+2i\,\mathrm{si}\right.$

$+e^{-2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$

$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)-8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$

$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin\right.\right.$

$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)-8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$

$+e^{2i\gamma}\left(i\sin(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^3(\beta)+i\sin^5(\beta)\cos(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2\right.\right.$

$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+4i\,\mathrm{si}\right.$

$+e^{2i\gamma}\left(3\cos^2(\beta)\sin^4(\beta)-3\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$

$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+4i\,\mathrm{si}\right.$

p = 0.5079547494593795

$$\left(2ie^{6i\gamma}\cos^3(\beta)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)\right.$$
$$+e^{2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-6i\sin^5(\beta)\cos(\beta)\right)$$
$$+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\right)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)\right.$$
$$+e^{2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)$$
$$+e^{-2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-6i\sin^5(\beta)\cos(\beta)\right)$$
$$+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\right)+e^{-2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^3(\beta)\right.$$
$$-2i\sin^5(\beta)\cos(\beta)\right)\left(e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos(\beta)\right)\right.$$
$$+e^{2i\gamma}\left(-3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-3i\sin^5(\beta)\cos(\beta)\right)$$
$$+e^{-2i\gamma}\left(\cos^6(\beta)-2i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)$$
$$+e^{2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos(\beta)\right)$$
$$+e^{-2i\gamma}\left(-3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-3i\sin^5(\beta)\cos(\beta)\right)$$
$$+e^{2i\gamma}\left(\cos^6(\beta)-2i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)$$
$$+e^{-2i\gamma}\left(\cos^6(\beta)-5\sin^2(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^2(\beta)-\sin^6(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin\right.\right.$$
$$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)-4i\,s\right.$$
$$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin\right.\right.$$
$$+e^{-2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)-4i\,s\right.$$
$$+e^{-2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)+2i\sin^3(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin\right.\right.$$
$$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)-4i\,s\right.$$
$$+e^{2i\gamma}\left(3\cos^2(\beta)\sin^4(\beta)-3\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-2i\gamma}\left(-2i\,s\right.\right.$$
$$+e^{2i\gamma}\left(\cos^6(\beta)-4i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+4i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)\right)\left(-\right.$$
$$+e^{2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)+e^{-2i\gamma}\left(6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-6i\sin^3(\beta)\,c\right.$$
$$+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\right)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-2i\gamma}\left(-9\sin^2(\beta)\,\cos\right.\right.$$
$$+e^{2i\gamma}\left(6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+6i\sin^5(\beta)\cos(\beta)\right)+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta\right.$$
$$+e^{-2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-6i\gamma}\left(i\sin(\beta)\cos^5(\beta)+i\sin^5(\beta)\cos\right.\right.$$
$$+e^{2i\gamma}\left(3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+3i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+2i\,\text{si}\right.$$
$$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos(\beta)\right)\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{6i\gamma}\left(i\sin(\beta)\cos^5\right.\right.$$
$$+e^{-2i\gamma}\left(3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+3i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+2i\,\text{si}\right.$$
$$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\,\text{s}\right.\right.$$
$$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)-8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+4i\,\text{si}\right.$$
$$+e^{2i\gamma}\left(\cos^6(\beta)-5\sin^2(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^2(\beta)-\sin^6(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin\right.\right.$$
$$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)-8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+4i\,\text{si}\right.$$
$$+e^{-2i\gamma}\left(3\cos^2(\beta)\sin^4(\beta)-3\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+4i\,\text{si}\right.$$
$$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\,\text{sin}\right.\right.$$
$$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+4i\,\text{si}\right.$$

p = 0.4018796761566774

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$\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)\right.\right.$

$+e^{2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)$

$+e^{-2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-6i\sin^5(\beta)\cos(\beta)\right)$

$+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)+e^{6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)\right.$

$+e^{-2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)$

$+e^{2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-6i\sin^5(\beta)\cos(\beta)\right)$

$+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)+e^{-2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^3(\beta)\right.$

$-2i\sin^5(\beta)\cos(\beta)\right)\left(e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos(\beta)\right)\right.$

$+e^{2i\gamma}\left(-3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-3i\sin^5(\beta)\cos(\beta)\right)$

$+e^{-2i\gamma}\left(\cos^6(\beta)-2i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)$

$+e^{2i\gamma}\left(\cos^6(\beta)-5\sin^2(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^2(\beta)\right.$

$-\sin^6(\beta)\right)\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos(\beta)\right)\right.$

$+e^{-2i\gamma}\left(-3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-3i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)-2i\right.$

$+e^{-2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$

$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)-4i\right.$

$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin\right.\right.$

$+e^{-2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)-4i\right.$

$+e^{-2i\gamma}\left(-i\sin(\beta)\cos^5(\beta)+4i\sin^3(\beta)\cos^3(\beta)-i\sin^5(\beta)\cos(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin\right.\right.$

$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)-4i\right.$

$+e^{2i\gamma}\left(3\cos^2(\beta)\sin^4(\beta)-3\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-2i\gamma}\left(-2i\sin\right.\right.$

$+e^{2i\gamma}\left(\cos^6(\beta)-4i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+4i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)\left(e\right.$

$+i\sin^5(\beta)\cos(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)+e^{-2i\gamma}\left(6i\sin\right.\right.$

$+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)-\right.\right.$

$+e^{2i\gamma}\left(6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+6i\sin^5(\beta)\cos(\beta)\right)+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta\right.$

$+e^{-2i\gamma}\left(\cos^6(\beta)-5\sin^2(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^2(\beta)-\sin^6(\beta)\right)\left(e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-6i\gamma}\left(i\sin(\beta)\cos\right.\right.$

$+e^{2i\gamma}\left(3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+3i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+2i\sin\right.$

$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos(\beta)\right)\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{6i\gamma}\left(i\sin(\beta)\cos^5\right.\right.$

$+e^{-2i\gamma}\left(3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+3i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+2i\sin\right.$

$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin\right.\right.$

$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)-8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$

$+e^{2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$

$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)-8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$

$+e^{2i\gamma}\left(3\cos^2(\beta)\sin^4(\beta)-3\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$

$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$

$+e^{2i\gamma}\left(i\sin(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^3(\beta)+i\sin^5(\beta)\cos(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\right.\right.$

$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$

p = 0.5079547494593796

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$$\left(2ie^{-6i\gamma}\cos^3(\beta)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)\right.\right.$$
$$+e^{-2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-6i\sin^5(\beta)\cos(\beta)\right)$$
$$+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\right)\sin^3(\beta)$$
$$+6ie^{2i\gamma}\cos^3(\beta)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{-2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)$$
$$+e^{2i\gamma}\left(\cos^6(\beta)-4i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+4i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)\sin$$
$$+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)\right.$$
$$+e^{-2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)$$
$$+e^{2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-6i\sin^5(\beta)\cos(\beta)\right)$$
$$+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\right)+e^{-2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)\right.$$
$$-6\cos^4(\beta)\sin^2(\beta)\right)\left(e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos(\beta)\right)\right.$$
$$+e^{2i\gamma}\left(-3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-3i\sin^5(\beta)\cos(\beta)\right)$$
$$+e^{-2i\gamma}\left(\cos^6(\beta)-2i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)$$
$$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos(\beta)\right)\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{6i\gamma}\left(-i\sin(\beta)\right.\right.$$
$$+e^{-2i\gamma}\left(-3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-3i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)-2i\right.$$
$$+e^{-2i\gamma}\left(-4i\sin(\beta)\cos^5(\beta)+4i\sin^3(\beta)\cos^3(\beta)-4i\sin^5(\beta)\cos(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)s\right.\right.$$
$$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)-4i s\right.$$
$$+e^{2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-2i\gamma}\left(-2i\sin\right.\right.$$
$$+e^{2i\gamma}\left(\cos^6(\beta)-4i\sin(\beta)\cos^5(\beta)-5\sin^2(\beta)\cos^4(\beta)+10i\sin^3(\beta)\cos^3(\beta)+5\sin^4(\beta)\cos^2(\beta)-4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)$$
$$+e^{-2i\gamma}\left(\cos^6(\beta)-2\sin^2(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^2(\beta)-\sin^6(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin\right.\right.$$
$$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)-4i\right.$$
$$+e^{-2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)+e^{2i\gamma}\left(6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-6i\sin^3(\beta)c\right.$$
$$+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\right)\sin^3(\beta)$$
$$-6ie^{-2i\gamma}\cos^3(\beta)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4\right.\right.$$
$$+e^{-2i\gamma}\left(\cos^6(\beta)+4i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)-4i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)+4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)\sin$$
$$+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta\right.\right.$$
$$+e^{-2i\gamma}\left(6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+6i\sin^5(\beta)\cos(\beta)\right)+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6\right.$$
$$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos(\beta)\right)\left(e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-6i\gamma}\left(i\sin(\beta)\cos\right.\right.$$
$$+e^{2i\gamma}\left(3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+3i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+2i\sin\right.$$
$$+e^{2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{6i\gamma}\left(i\sin(\beta)\cos^5(\beta)+i\sin^5(\beta)\cos(\beta\right.\right.$$
$$+e^{-2i\gamma}\left(3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+3i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+2i\sin\right.$$
$$+e^{-2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)-8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$$
$$+e^{2i\gamma}\left(4i\sin(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^3(\beta)+4i\sin^5(\beta)\cos(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin\right.\right.$$
$$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)-8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$$
$$+e^{2i\gamma}\left(\cos^6(\beta)-2\sin^2(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^2(\beta)-\sin^6(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin\right.\right.$$
$$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$$

p = 0.33060580899735925

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$$\left(2ie^{6i\gamma}\cos^3(\beta)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)\right.\right.$$
$$+e^{2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-6i\sin^5(\beta)\cos(\beta)\right)$$
$$+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\right)\sin^3(\beta)$$
$$+6ie^{-2i\gamma}\cos^3(\beta)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)$$
$$+e^{-2i\gamma}\left(\cos^6(\beta)-4i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+4i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)\sin$$
$$+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)\right.$$
$$+e^{2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)$$
$$+e^{-2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-6i\sin^5(\beta)\cos(\beta)\right)$$
$$+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\right)+e^{-2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^3(\beta)\right.$$
$$\left.-2i\sin^5(\beta)\cos(\beta)\right)\left(e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos\right.\right.$$
$$+e^{2i\gamma}\left(-3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-3i\sin^5(\beta)\cos(\beta)\right)$$
$$+e^{-2i\gamma}\left(\cos^6(\beta)-2i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)$$
$$+e^{2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos\right.\right.$$
$$+e^{-2i\gamma}\left(-3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-3i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)-2i\right.$$
$$+e^{-2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)-4i\sin\right.$$
$$+e^{2i\gamma}\left(-4i\sin(\beta)\cos^5(\beta)+4i\sin^3(\beta)\cos^3(\beta)-4i\sin^5(\beta)\cos(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin\right.\right.$$
$$+e^{-2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)-4i\sin\right.$$
$$+e^{2i\gamma}\left(\cos^6(\beta)-2\sin^2(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^2(\beta)-\sin^6(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\right.\right.$$
$$+e^{-2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)-4i\right.$$
$$+e^{2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)+e^{-2i\gamma}\left(6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-6i\sin^3(\beta)\cos\right.$$
$$+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\right)\sin^3(\beta)$$
$$-6ie^{2i\gamma}\cos^3(\beta)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4\right.\right.$$
$$+e^{2i\gamma}\left(\cos^6(\beta)+4i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)-4i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)+4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)\sin$$
$$+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta\right.\right.$$
$$+e^{2i\gamma}\left(6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+6i\sin^5(\beta)\cos(\beta)\right)+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta\right.$$
$$+e^{-2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-6i\gamma}\left(i\sin(\beta)\cos^5(\beta)+i\sin^5(\beta)\cos\right.\right.$$
$$+e^{2i\gamma}\left(3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+3i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+2i\sin\right.$$
$$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos(\beta)\right)\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{6i\gamma}\left(i\sin(\beta)\cos^5\right.\right.$$
$$+e^{-2i\gamma}\left(3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+3i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+2i\sin\right.$$
$$+e^{-2i\gamma}\left(4i\sin(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^3(\beta)+4i\sin^5(\beta)\cos(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)s\right.\right.$$
$$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)-8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$$
$$+e^{2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)-8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$$
$$+e^{-2i\gamma}\left(\cos^6(\beta)-2\sin^2(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^2(\beta)-\sin^6(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)s\right.\right.$$
$$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$$

p = 0.3306058089973606

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$\left(2ie^{-6i\gamma}\cos^3(\beta)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)\right.\right.$

$+e^{-2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-6i\sin^5(\beta)\cos(\beta)\right)$

$+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\left.\right)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)\right.$

$+e^{-2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)$

$+e^{2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-6i\sin^5(\beta)\cos(\beta)\right)$

$+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\left.\right)+e^{-2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)\right.$

$-6\cos^4(\beta)\sin^2(\beta)\left.\right)\left(e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos(\beta)\right)\right.$

$+e^{2i\gamma}\left(-3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-3i\sin^5(\beta)\cos(\beta)\right)$

$+e^{-2i\gamma}\left(\cos^6(\beta)-2i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\left.\right)$

$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^3(\beta)\right.$

$-2i\sin^5(\beta)\cos(\beta)\left.\right)\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos(\beta)\right)\right.$

$+e^{-2i\gamma}\left(-3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-3i\sin^5(\beta)\cos(\beta)\right)$

$+e^{2i\gamma}\left(\cos^6(\beta)-2i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\left.\right)$

$+e^{-2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\right.\right.$

$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)-4i\right.$

$+e^{2i\gamma}\left(\cos^6(\beta)-5\sin^2(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^2(\beta)-\sin^6(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2\right.\right.$

$+e^{-2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)-4i\right.$

$+e^{-2i\gamma}\left(3\cos^2(\beta)\sin^4(\beta)-3\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$

$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)-4i\right.$

$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)+2i\sin^3(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos(\beta)\right)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin\right.\right.$

$+e^{-2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)-4i\right.$

$+e^{-2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)+e^{2i\gamma}\left(6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-6i\sin^3(\beta)\cos\right.$

$+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\left.\right)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{2i\gamma}\left(-9\sin^2(\beta)\cos^4\right.\right.$

$+e^{-2i\gamma}\left(6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+6i\sin^5(\beta)\cos(\beta)\right)+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6\right.$

$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos(\beta)\right)\left(e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-6i\gamma}\left(i\sin(\beta)\cos\right.\right.$

$+e^{2i\gamma}\left(3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+3i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+2i\sin\right.$

$+e^{2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{6i\gamma}\left(i\sin(\beta)\cos^5(\beta)+i\sin^5(\beta)\cos(\right.\right.$

$+e^{-2i\gamma}\left(3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+3i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+2i\sin\right.$

$+e^{-2i\gamma}\left(\cos^6(\beta)-5\sin^2(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^2(\beta)-\sin^6(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin\right.\right.$

$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)-8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$

$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin\right.\right.$

$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)-8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$

$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos(\beta)\right)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin\right.\right.$

$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$

$+e^{2i\gamma}\left(3\cos^2(\beta)\sin^4(\beta)-3\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$

$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$

p = 0.4018796761566783

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$$\left(2ie^{-6i\gamma}\cos^3(\beta)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)\right.$$
$$+e^{-2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-6i\sin^5(\beta)\cos(\beta)\right)$$
$$\left.+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\right)\sin^3(\beta)$$
$$+12ie^{-2i\gamma}\cos^3(\beta)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)$$
$$+e^{-2i\gamma}\left(\cos^6(\beta)-4i\sin(\beta)\cos^5(\beta)-5\sin^2(\beta)\cos^4(\beta)+10i\sin^3(\beta)\cos^3(\beta)+5\sin^4(\beta)\cos^2(\beta)-4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)\text{s}$$
$$+6ie^{2i\gamma}\cos^3(\beta)\left(2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{-2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)$$
$$+e^{2i\gamma}\left(\cos^6(\beta)-4i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+4i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)\sin$$
$$+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)\right.$$
$$+e^{-2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)$$
$$+e^{2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-6i\sin^5(\beta)\cos(\beta)\right)$$
$$\left.+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\right)$$
$$+e^{-2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{-6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(-3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos$$
$$+e^{-2i\gamma}\left(\cos^6(\beta)-2i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)+8i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)$$
$$+e^{2i\gamma}\left(-6i\sin(\beta)\cos^5(\beta)-6i\sin^5(\beta)\cos(\beta)\right)\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{6i\gamma}\left(-i\sin(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos\right.\right.$$
$$+e^{-2i\gamma}\left(-3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-3i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)-2i\right.$$
$$+e^{2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-2i\gamma}\left(-2i\sin\right.\right.$$
$$+e^{2i\gamma}\left(\cos^6(\beta)-4i\sin(\beta)\cos^5(\beta)-5\sin^2(\beta)\cos^4(\beta)+10i\sin^3(\beta)\cos^3(\beta)+5\sin^4(\beta)\cos^2(\beta)-4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)$$
$$+e^{-2i\gamma}\left(3\cos^2(\beta)\sin^4(\beta)-3\cos^4(\beta)\sin^2(\beta)\right)\left(2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{2i\gamma}\left(-2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)+14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)-2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)-4i\right.$$
$$+e^{-2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)+e^{2i\gamma}\left(6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-6i\sin^3(\beta)\cos\right.$$
$$\left.+e^{6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\right)\sin^3(\beta)$$
$$-12ie^{2i\gamma}\cos^3(\beta)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos\right.\right.$$
$$+e^{2i\gamma}\left(\cos^6(\beta)+4i\sin(\beta)\cos^5(\beta)-5\sin^2(\beta)\cos^4(\beta)-10i\sin^3(\beta)\cos^3(\beta)+5\sin^4(\beta)\cos^2(\beta)+4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)\sin$$
$$-6ie^{-2i\gamma}\cos^3(\beta)\left(-2ie^{-6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4\right.\right.$$
$$+e^{-2i\gamma}\left(\cos^6(\beta)+4i\sin(\beta)\cos^5(\beta)-8\sin^2(\beta)\cos^4(\beta)-4i\sin^3(\beta)\cos^3(\beta)+8\sin^4(\beta)\cos^2(\beta)+4i\sin^5(\beta)\cos(\beta)-\sin^6(\beta)\right)\right)\sin$$
$$+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{2i\gamma}\left(-9\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)\right)\right.$$
$$+e^{-2i\gamma}\left(6i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-6i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+6i\sin^5(\beta)\cos(\beta)\right)+e^{-6i\gamma}\left(\cos^6(\beta)-\sin^6\right.$$
$$+e^{-2i\gamma}\left(6i\sin(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos(\beta)\right)\left(e^{6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{-6i\gamma}\left(i\sin(\beta)\cos^5(\beta)+i\sin^5(\beta)\cos(\right.\right.$$
$$+e^{2i\gamma}\left(3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+3i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+2i\sin\right.$$
$$+e^{2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)+e^{6i\gamma}\left(i\sin(\beta)\cos^5(\beta)+i\sin^5(\beta)\cos(\beta\right.\right.$$
$$+e^{-2i\gamma}\left(3i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-12i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+3i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+2i\sin\right.$$
$$+e^{-2i\gamma}\left(6\cos^2(\beta)\sin^4(\beta)-6\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-9\sin^2(\beta)\cos^4(\beta)-8i\sin^3(\beta)\cos^3(\beta)+9\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{-2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$$
$$+e^{2i\gamma}\left(3\cos^2(\beta)\sin^4(\beta)-3\cos^4(\beta)\sin^2(\beta)\right)\left(-2ie^{6i\gamma}\cos^3(\beta)\sin^3(\beta)+e^{-6i\gamma}\left(\cos^2(\beta)\sin^4(\beta)-\cos^4(\beta)\sin^2(\beta)\right)\right.$$
$$+e^{-2i\gamma}\left(2i\sin(\beta)\cos^5(\beta)-6\sin^2(\beta)\cos^4(\beta)-14i\sin^3(\beta)\cos^3(\beta)+6\sin^4(\beta)\cos^2(\beta)+2i\sin^5(\beta)\cos(\beta)\right)+e^{2i\gamma}\left(\cos^6(\beta)+4i\sin\right.$$

p = 0.37645357223799014

7v7

$$\left(e^{7i\gamma}\left(\cos^7(\beta)-i\sin^7(\beta)\right)\left(e^{-5i\gamma}\left(7\cos^3(\beta)\sin^4(\beta)-7i\cos^4(\beta)\sin^3(\beta)\right)\right.\right.$$

$$+e^{-i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+14i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{3i\gamma}\left(7i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)-7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)+7i\sin^5(\beta)\cos^2(\beta)-7\sin^6(\beta)\cos(\beta)\right)$$

$$\left.+e^{7i\gamma}\left(\cos^7(\beta)-i\sin^7(\beta)\right)\right)$$

$$+e^{-i\gamma}\left(7\cos^3(\beta)\sin^4(\beta)-7i\cos^4(\beta)\sin^3(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{3i\gamma}\left(i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)-13i\sin^3(\beta)\cos^4(\beta)+13\sin^4(\beta)\cos^3(\beta)+7i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+6i\sin(\beta)\cos^6(\beta)-12\sin^2(\beta)\cos^5(\beta)-16i\sin^3(\beta)\cos^4(\beta)+16\sin^4(\beta)\cos^3(\beta)+12i\sin^5(\beta)\cos^2(\beta)-6\sin^6$$

$$+e^{3i\gamma}\left(7i\cos^2(\beta)\sin^5(\beta)-7\cos^5(\beta)\sin^2(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)+i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-14\sin^2(\beta)\cos^5(\beta)-18i\sin^3(\beta)\cos^4(\beta)+18\sin^4(\beta)\cos^3(\beta)+14i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{3i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)-11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)+5i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\right.$$

$$+e^{3i\gamma}\left(7\cos^3(\beta)\sin^4(\beta)-7i\cos^4(\beta)\sin^3(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+11i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{3i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)+8i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos$$

$$+e^{-i\gamma}\left(14\cos^3(\beta)\sin^4(\beta)-14i\cos^4(\beta)\sin^3(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)-11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)+8i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-10\sin^2(\beta)\cos^5(\beta)-20i\sin^3(\beta)\cos^4(\beta)+20\sin^4(\beta)\cos^3(\beta)+10i\sin^5(\beta)\cos^2(\beta)-4\sin^6($$

$$+e^{-i\gamma}\left(7i\cos^2(\beta)\sin^5(\beta)-7\cos^5(\beta)\sin^2(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta)\right)\right.$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)-14i\sin^3(\beta)\cos^4(\beta)+14\sin^4(\beta)\cos^3(\beta)+5i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-13\sin^2(\beta)\cos^5(\beta)-17i\sin^3(\beta)\cos^4(\beta)+17\sin^4(\beta)\cos^3(\beta)+13i\sin^5(\beta)\cos^2(\beta)-4\sin^6($$

$$+e^{-5i\gamma}\left(7\cos^3(\beta)\sin^4(\beta)-7i\cos^4(\beta)\sin^3(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)+e^{3i\gamma}\left(-6\sin^2(\beta)\cos^5(\beta)-15i\sin^3(\right.$$

$$+e^{-i\gamma}\left(5i\sin(\beta)\cos^6(\beta)-13\sin^2(\beta)\cos^5(\beta)-17i\sin^3(\beta)\cos^4(\beta)+17\sin^4(\beta)\cos^3(\beta)+13i\sin^5(\beta)\cos^2(\beta)-5\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\,c$$

$$+e^{3i\gamma}\left(7i\cos^6(\beta)\sin(\beta)-7\cos(\beta)\sin^6(\beta)\right)\left(e^{-5i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2\right.$$

$$+e^{-i\gamma}\left(4i\sin(\beta)\cos^6(\beta)-9\sin^2(\beta)\cos^5(\beta)-22i\sin^3(\beta)\cos^4(\beta)+22\sin^4(\beta)\cos^3(\beta)+9i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{7i\gamma}\left(i\cos^6(\beta)\sin(\beta)-\cos(\beta)\sin^6(\beta)\right)+e^{3i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-9\sin^2(\beta)\cos^5(\beta)-9i\sin^3(\beta)\cos^4(\beta)+9\sin^4(\beta)\,c\right.$$

$$+e^{-i\gamma}\left(7i\cos^2(\beta)\sin^5(\beta)-7\cos^5(\beta)\sin^2(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta)\right)+e^{3i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-6\sin^2(\beta)\,\cos\right.$$

$$+e^{-5i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+11i\sin^5(\beta)\cos^2(\beta)-2\sin^6($$

$$\left(e^{-7i\gamma}\left(\cos^7(\beta)+i\sin^7(\beta)\right)\left(e^{5i\gamma}\left(7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)\right)+e^{i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta)+21i\sin^3(\beta)\cos^4(\beta)+21\,s\right.\right.$$

$$+e^{-3i\gamma}\left(-7i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)+7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)-7i\sin^5(\beta)\cos^2(\beta)-7\sin^6(\beta)\cos(\beta)\right)$$

$$\left.+e^{-7i\gamma}\left(\cos^7(\beta)+i\sin^7(\beta)\right)\right)$$

$$+e^{i\gamma}\left(7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)\right)\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta)+\sin^4(\beta)\cos^3(\beta)\right)+e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\right.$$

$$+e^{-3i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)+13i\sin^3(\beta)\cos^4(\beta)+13\sin^4(\beta)\cos^3(\beta)-7i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{i\gamma}\left(\cos^7(\beta)-6i\sin(\beta)\cos^6(\beta)-12\sin^2(\beta)\cos^5(\beta)+16i\sin^3(\beta)\cos^4(\beta)+16\sin^4(\beta)\cos^3(\beta)-12i\sin^5(\beta)\cos^2(\beta)-6\sin^6(\beta)\right.$$

$$+e^{-3i\gamma}\left(-7\sin^2(\beta)\cos^5(\beta)-7i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos^2(\beta)\right)+e^{5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)+6i\sin\right.$$

$$+e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta)-14\sin^2(\beta)\cos^5(\beta)+18i\sin^3(\beta)\cos^4(\beta)+18\sin^4(\beta)\cos^3(\beta)-14i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right.$$

$$+e^{-3i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)+11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)-5i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\right.$$

$$+e^{-3i\gamma}\left(7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)\right)\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta)+\sin^4(\beta)\cos^3(\beta)\right)+e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\right.$$

$$+e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)+21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)-11i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right.$$

$$+e^{-3i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)-8i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\,c\right.$$

$$+e^{i\gamma}\left(14i\sin^3(\beta)\cos^4(\beta)+14\sin^4(\beta)\cos^3(\beta)\right)\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta)+\sin^4(\beta)\cos^3(\beta)\right)+e^{-3i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-8\sin^2\right.$$

$$+e^{5i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)+3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)-3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-10\sin^2(\beta)\cos^5(\beta)+20i\sin^3(\beta)\cos^4(\beta)+20\sin^4(\beta)\cos^3(\beta)-10i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\right.$$

$$+e^{i\gamma}\left(-7\sin^2(\beta)\cos^5(\beta)-7i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos^2(\beta)\right)+e^{-3i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-5\sin\right.$$

$$+e^{5i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)+4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-13\sin^2(\beta)\cos^5(\beta)+17i\sin^3(\beta)\cos^4(\beta)+17\sin^4(\beta)\cos^3(\beta)-13i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\right.$$

$$+e^{5i\gamma}\left(7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)\right)\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta)+\sin^4(\beta)\cos^3(\beta)\right)+e^{-3i\gamma}\left(-6\sin^2(\beta)\cos^5(\beta)+15i\sin\right.$$

$$+e^{i\gamma}\left(-5i\sin(\beta)\cos^6(\beta)-13\sin^2(\beta)\cos^5(\beta)+17i\sin^3(\beta)\cos^4(\beta)+17\sin^4(\beta)\cos^3(\beta)-13i\sin^5(\beta)\cos^2(\beta)-5\sin^6(\beta)\cos(\beta)\right.$$

p = 0.2845242037151404

$$\left(e^{7i\gamma}\left(i\cos^6(\beta)\sin(\beta)-\cos(\beta)\sin^6(\beta)\right)\left(e^{-5i\gamma}\left(7\cos^3(\beta)\sin^4(\beta)-7i\cos^4(\beta)\sin^3(\beta)\right)\right.\right.$$

$$+e^{-i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+14i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{3i\gamma}\left(7i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)-7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)+7i\sin^5(\beta)\cos^2(\beta)-7\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{7i\gamma}\left(\cos^7(\beta)-i\sin^7(\beta)\right)\big)+e^{-i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)\right.$$

$$+4\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)\big)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{3i\gamma}\left(i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)-13i\sin^3(\beta)\cos^4(\beta)+13\sin^4(\beta)\cos^3(\beta)+7i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+6i\sin(\beta)\cos^6(\beta)-12\sin^2(\beta)\cos^5(\beta)-16i\sin^3(\beta)\cos^4(\beta)+16\sin^4(\beta)\cos^3(\beta)+12i\sin^5(\beta)\cos^2(\beta)-6\sin^6(\beta)\right.$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)\right.$$

$$-2\sin^6(\beta)\cos(\beta)\big)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)+i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-14\sin^2(\beta)\cos^5(\beta)-18i\sin^3(\beta)\cos^4(\beta)+18\sin^4(\beta)\cos^3(\beta)+14i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{3i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)-11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)+5i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\right.$$

$$+e^{3i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)\right.$$

$$+3i\sin^5(\beta)\cos^2(\beta)\big)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+11i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{3i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)+8i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos\right.$$

$$+e^{-i\gamma}\left(-6\sin^2(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)+6i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)-11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)+8i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-10\sin^2(\beta)\cos^5(\beta)-20i\sin^3(\beta)\cos^4(\beta)+20\sin^4(\beta)\cos^3(\beta)+10i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\right.$$

$$+e^{-i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta)\right)\right.$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)-14i\sin^3(\beta)\cos^4(\beta)+14\sin^4(\beta)\cos^3(\beta)+5i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-13\sin^2(\beta)\cos^5(\beta)-17i\sin^3(\beta)\cos^4(\beta)+17\sin^4(\beta)\cos^3(\beta)+13i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\right.$$

$$+e^{-5i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\right.\right.$$

$$+e^{3i\gamma}\left(-6\sin^2(\beta)\cos^5(\beta)-15i\sin^3(\beta)\cos^4(\beta)+15\sin^4(\beta)\cos^3(\beta)+6i\sin^5(\beta)\cos^2(\beta)\right)+e^{-i\gamma}\left(5i\sin(\beta)\cos^6(\beta)-13\sin^2(\right.$$

$$+e^{-5i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)c\right.$$

$$+e^{3i\gamma}\left(\cos^7(\beta)-6\sin^2(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^2(\beta)-i\sin^7(\beta)\right)\left(e^{-5i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos\right.\right.$$

$$+e^{-i\gamma}\left(4i\sin(\beta)\cos^6(\beta)-9\sin^2(\beta)\cos^5(\beta)-22i\sin^3(\beta)\cos^4(\beta)+22\sin^4(\beta)\cos^3(\beta)+9i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{7i\gamma}\left(i\cos^6(\beta)\sin(\beta)-\cos(\beta)\sin^6(\beta)\right)+e^{3i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-9\sin^2(\beta)\cos^5(\beta)-9i\sin^3(\beta)\cos^4(\beta)+9\sin^4(\beta)c\right.$$

$$+e^{-i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta)\right)\right.$$

$$+e^{3i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-6\sin^2(\beta)\cos^5(\beta)-12i\sin^3(\beta)\cos^4(\beta)+12\sin^4(\beta)\cos^3(\beta)+6i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+11i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\right.$$

$$\left(e^{-7i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{5i\gamma}\left(7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)\right)+e^{i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta)+21i\sin^3(\right.\right.\right.$$

$$+e^{-3i\gamma}\left(-7i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)+7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)-7i\sin^5(\beta)\cos^2(\beta)-7\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-7i\gamma}\left(\cos^7(\beta)+i\sin^7(\beta)\right)\big)+e^{i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta)+4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)-3i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(i\sin\right.\right.$$

$$+e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)\right)+e^{-3i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos\right.$$

$$+e^{i\gamma}\left(\cos^7(\beta)-6i\sin(\beta)\cos^6(\beta)-12\sin^2(\beta)\cos^5(\beta)+16i\sin^3(\beta)\cos^4(\beta)+16\sin^4(\beta)\cos^3(\beta)-12i\sin^5(\beta)\cos^2(\beta)-6\sin^6(\beta\right.$$

$$+e^{-3i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{-7i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos\right.\right.$$

$$+e^{5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)+6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)-i\sin^5(\beta)\cos^2(\beta)\right)+e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta)-14\sin^2(\beta)\cos^5\right.$$

$$+e^{-3i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)+11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)-5i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta\right.$$

$$+e^{-3i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta)+4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)-3i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta)+\sin^4(\beta)\cos\right.\right.$$

$$+e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)\right)+e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\text{co}\right.$$

$$+e^{-3i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)-8i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\text{c}\right.$$

$$+e^{i\gamma}\left(-6\sin^2(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)-6i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta)+\sin^4(\beta)\cos^3(\right.\right.$$

$$+e^{-3i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)+11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)-8i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right.$$

$$+e^{5i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)+3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)-3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-10\sin^2(\beta)\cos^5(\beta)+20i\sin^3(\beta)\cos^4(\beta)+20\sin^4(\beta)\cos^3(\beta)-10i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta\right.$$

$$+e^{i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{-7i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos^2(\right.\right.$$

$$+e^{-3i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)+14i\sin^3(\beta)\cos^4(\beta)+14\sin^4(\beta)\cos^3(\beta)-5i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right.$$

p = 0.3855649540684987

p = 0.3855649540684987

$$\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta)\right)\left(e^{-5i\gamma}\left(7\cos^3(\beta)\sin^4(\beta)-7i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+14i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{3i\gamma}\left(7i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)-7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)+7i\sin^5(\beta)\cos^2(\beta)-7\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{7i\gamma}\left(\cos^7(\beta)-i\sin^7(\beta)\right)\right)+e^{-i\gamma}\left(i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)\right.$$

$$+4\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{3i\gamma}\left(i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)-13i\sin^3(\beta)\cos^4(\beta)+13\sin^4(\beta)\cos^3(\beta)+7i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+6i\sin(\beta)\cos^6(\beta)-12\sin^2(\beta)\cos^5(\beta)-16i\sin^3(\beta)\cos^4(\beta)+16\sin^4(\beta)\cos^3(\beta)+12i\sin^5(\beta)\cos^2(\beta)-6\sin^6($$

$$+e^{3i\gamma}\left(\cos^7(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)\right.$$

$$+2i\sin^5(\beta)\cos^2(\beta)-i\sin^7(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)+i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-14\sin^2(\beta)\cos^5(\beta)-18i\sin^3(\beta)\cos^4(\beta)+18\sin^4(\beta)\cos^3(\beta)+14i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{3i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)-11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)+5i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)\right.$$

$$+3i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+11i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{3i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)+8i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos$$

$$+e^{-i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-4\sin^2(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)+4i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{7i}\right.$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)-11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)+8i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-10\sin^2(\beta)\cos^5(\beta)-20i\sin^3(\beta)\cos^4(\beta)+20\sin^4(\beta)\cos^3(\beta)+10i\sin^5(\beta)\cos^2(\beta)-4\sin^6($$

$$+e^{-i\gamma}\left(-4\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)+4i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\right.\right.$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)-14i\sin^3(\beta)\cos^4(\beta)+14\sin^4(\beta)\cos^3(\beta)+5i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-13\sin^2(\beta)\cos^5(\beta)-17i\sin^3(\beta)\cos^4(\beta)+17\sin^4(\beta)\cos^3(\beta)+13i\sin^5(\beta)\cos^2(\beta)-4\sin^6($$

$$+e^{-5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)+i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right.\right.$$

$$+e^{3i\gamma}\left(-6\sin^2(\beta)\cos^5(\beta)-15i\sin^3(\beta)\cos^4(\beta)+15\sin^4(\beta)\cos^3(\beta)+6i\sin^5(\beta)\cos^2(\beta)\right)+e^{-i\gamma}\left(5i\sin(\beta)\cos^6(\beta)-13\sin^2(\beta)\right.$$

$$+e^{-5i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)c$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{-5i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4\right.\right.$$

$$+e^{-i\gamma}\left(4i\sin(\beta)\cos^6(\beta)-9\sin^2(\beta)\cos^5(\beta)-22i\sin^3(\beta)\cos^4(\beta)+22\sin^4(\beta)\cos^3(\beta)+9i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{7i\gamma}\left(i\cos^6(\beta)\sin(\beta)-\cos(\beta)\sin^6(\beta)\right)+e^{3i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-9\sin^2(\beta)\cos^5(\beta)-9i\sin^3(\beta)\cos^4(\beta)+9\sin^4(\beta)c$$

$$+e^{-i\gamma}\left(-4\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)+4i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\right.\right.$$

$$+e^{3i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-6\sin^2(\beta)\cos^5(\beta)-12i\sin^3(\beta)\cos^4(\beta)+12\sin^4(\beta)\cos^3(\beta)+6i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+11i\sin^5(\beta)\cos^2(\beta)-2\sin^6($$

$$\left(e^{-7i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos^2(\beta)\right)\right)\left(e^{5i\gamma}\left(7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)\right)+e^{i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta)+21i\sin\right.\right.$$

$$+e^{-3i\gamma}\left(-7i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)+7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)-7i\sin^5(\beta)\cos^2(\beta)-7\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-7i\gamma}\left(\cos^7(\beta)+i\sin^7(\beta)\right)\right)+e^{i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)+4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos\right.$$

$$-\sin^6(\beta)\cos(\beta)\right)\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta)+\sin^4(\beta)\cos^3(\beta)\right)+e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)\right.\right.$$

$$+e^{-3i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)+13i\sin^3(\beta)\cos^4(\beta)+13\sin^4(\beta)\cos^3(\beta)-7i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{i\gamma}\left(\cos^7(\beta)-6i\sin(\beta)\cos^6(\beta)-12\sin^2(\beta)\cos^5(\beta)+16i\sin^3(\beta)\cos^4(\beta)+16\sin^4(\beta)\cos^3(\beta)-12i\sin^5(\beta)\cos^2(\beta)-6\sin^6(\beta)$$

$$+e^{-3i\gamma}\left(\cos^7(\beta)-2\sin^2(\beta)\cos^5(\beta)+4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)+i\sin^7(\beta)\right)\left(e^{-7i\gamma}\left(-\sin^2(\beta)c\right.\right.$$

$$+e^{5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)+6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)-i\sin^5(\beta)\cos^2(\beta)\right)+e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta)-14\sin^2(\beta)\cos^5$$

$$+e^{-3i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)+11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)-5i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta$$

$$+e^{-3i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)+2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)-3i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)($$

$$+e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)\right)+e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos$$

$$+e^{-3i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)-8i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)c$$

$$+e^{i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-4\sin^2(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)-4i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{-\right.$$

$$+e^{-3i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)+11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)-8i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)$$

$$+e^{5i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)+3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)-3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-10\sin^2(\beta)\cos^5(\beta)+20i\sin^3(\beta)\cos^4(\beta)+20\sin^4(\beta)\cos^3(\beta)-10i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)$$

$$+e^{i\gamma}\left(-4\sin^2(\beta)\cos^5(\beta)+3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)-4i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-i\sin^5(\right.\right.$$

p = 0.3517160987716251

$$\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta)\right)\left(e^{-5i\gamma}\left(7\cos^3(\beta)\sin^4(\beta)-7i\cos^4(\beta)\sin^3(\beta)\right)\right.\right.$$

$$+e^{-i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+14i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{3i\gamma}\left(7i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)-7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)+7i\sin^5(\beta)\cos^2(\beta)-7\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{7i\gamma}\left(\cos^7(\beta)-i\sin^7(\beta)\right)\right)+e^{-i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-6i\sin^3(\beta)\cos^4(\beta)\right.$$

$$+6\sin^4(\beta)\cos^3(\beta)+i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{3i\gamma}\left(i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)-13i\sin^3(\beta)\cos^4(\beta)+13\sin^4(\beta)\cos^3(\beta)+7i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+6i\sin(\beta)\cos^6(\beta)-12\sin^2(\beta)\cos^5(\beta)-16i\sin^3(\beta)\cos^4(\beta)+16\sin^4(\beta)\cos^3(\beta)+12i\sin^5(\beta)\cos^2(\beta)-6\sin^6(\right.$$

$$+e^{3i\gamma}\left(-4\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)\right.$$

$$+4i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)+i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-14\sin^2(\beta)\cos^5(\beta)-18i\sin^3(\beta)\cos^4(\beta)+18\sin^4(\beta)\cos^3(\beta)+14i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{3i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)-11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)+5i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)$$

$$+e^{3i\gamma}\left(i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)\right.$$

$$+2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+11i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{3i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)+8i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos$$

$$+e^{-i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-4\sin^2(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)+4i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{7i}\right.$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)-11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)+8i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-10\sin^2(\beta)\cos^5(\beta)-20i\sin^3(\beta)\cos^4(\beta)+20\sin^4(\beta)\cos^3(\beta)+10i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\right.$$

$$+e^{-i\gamma}\left(-4\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)+4i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta\right.\right.$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)-14i\sin^3(\beta)\cos^4(\beta)+14\sin^4(\beta)\cos^3(\beta)+5i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-13\sin^2(\beta)\cos^5(\beta)-17i\sin^3(\beta)\cos^4(\beta)+17\sin^4(\beta)\cos^3(\beta)+13i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\right.$$

$$+e^{-5i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{7}\right.$$

$$+e^{3i\gamma}\left(-6\sin^2(\beta)\cos^5(\beta)-15i\sin^3(\beta)\cos^4(\beta)+15\sin^4(\beta)\cos^3(\beta)+6i\sin^5(\beta)\cos^2(\beta)\right)+e^{-i\gamma}\left(5i\sin(\beta)\cos^6(\beta)-13\sin^2(\right.$$

$$+e^{-5i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)c\right.$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{-5i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4\right.\right.$$

$$+e^{-i\gamma}\left(4i\sin(\beta)\cos^6(\beta)-9\sin^2(\beta)\cos^5(\beta)-22i\sin^3(\beta)\cos^4(\beta)+22\sin^4(\beta)\cos^3(\beta)+9i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{7i\gamma}\left(i\cos^6(\beta)\sin(\beta)-\cos(\beta)\sin^6(\beta)\right)+e^{3i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-9\sin^2(\beta)\cos^5(\beta)-9i\sin^3(\beta)\cos^4(\beta)+9\sin^4(\beta)c\right.$$

$$+e^{-i\gamma}\left(\cos^7(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-i\sin^7(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5\right.\right.$$

$$+e^{3i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-6\sin^2(\beta)\cos^5(\beta)-12i\sin^3(\beta)\cos^4(\beta)+12\sin^4(\beta)\cos^3(\beta)+6i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+11i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\right.$$

$$\left(e^{-7i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{5i\gamma}\left(7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)\right)+e^{i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta)+21i\sin\right.\right.\right.$$

$$+e^{-3i\gamma}\left(-7i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)+7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)-7i\sin^5(\beta)\cos^2(\beta)-7\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-7i\gamma}\left(\cos^7(\beta)+i\sin^7(\beta)\right)\right)+e^{i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)+6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)-i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(i\sin^3\right.\right.$$

$$+e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)\right)+e^{-3i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos\right.$$

$$+e^{i\gamma}\left(\cos^7(\beta)-6i\sin(\beta)\cos^6(\beta)-12\sin^2(\beta)\cos^5(\beta)+16i\sin^3(\beta)\cos^4(\beta)+16\sin^4(\beta)\cos^3(\beta)-12i\sin^5(\beta)\cos^2(\beta)-6\sin^6(\beta\right.$$

$$+e^{-3i\gamma}\left(-4\sin^2(\beta)\cos^5(\beta)+3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)-4i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-i\sin^5(\beta)c\right.\right.$$

$$+e^{5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)+6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)-i\sin^5(\beta)\cos^2(\beta)\right)+e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta)-14\sin^2(\beta)\cos^5\right.$$

$$+e^{-3i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)+11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)-5i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta\right.$$

$$+e^{-3i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)+4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{-\right.$$

$$+e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)\right)+e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos\right.$$

$$+e^{-3i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)-8i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos\right.$$

$$+e^{i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-4\sin^2(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)-4i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{-\right.$$

$$+e^{-3i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)+11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)-8i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right.$$

$$+e^{5i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)+3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)-3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-10\sin^2(\beta)\cos^5(\beta)+20i\sin^3(\beta)\cos^4(\beta)+20\sin^4(\beta)\cos^3(\beta)-10i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta\right.$$

$$+e^{i\gamma}\left(-4\sin^2(\beta)\cos^5(\beta)+3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)-4i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos\right.\right.$$

$$+e^{-3i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)+14i\sin^3(\beta)\cos^4(\beta)+14\sin^4(\beta)\cos^3(\beta)-5i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right.$$

p = 0.3111102052919139

$$\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\left(e^{-5i\gamma}\left(7\cos^3(\beta)\sin^4(\beta)-7i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+14i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{3i\gamma}\left(7i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)-7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)+7i\sin^5(\beta)\cos^2(\beta)-7\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{7i\gamma}\left(\cos^7(\beta)-i\sin^7(\beta)\right))+e^{-i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)\right.$$

$$+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{3i\gamma}\left(i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)-13i\sin^3(\beta)\cos^4(\beta)+13\sin^4(\beta)\cos^3(\beta)+7i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+6i\sin(\beta)\cos^6(\beta)-12\sin^2(\beta)\cos^5(\beta)-16i\sin^3(\beta)\cos^4(\beta)+16\sin^4(\beta)\cos^3(\beta)+12i\sin^5(\beta)\cos^2(\beta)-6\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)\right.$$

$$+3i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)+i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-14\sin^2(\beta)\cos^5(\beta)-18i\sin^3(\beta)\cos^4(\beta)+18\sin^4(\beta)\cos^3(\beta)+14i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{3i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)-11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)+5i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\right)$$

$$+e^{3i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)\right.$$

$$+2i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)-i\sin^7(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+11i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{3i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)+8i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos$$

$$+e^{-i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-6\sin^2(\beta)\cos^5(\beta)-6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)+6i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{7i}\right.$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)-11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)+8i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-10\sin^2(\beta)\cos^5(\beta)-20i\sin^3(\beta)\cos^4(\beta)+20\sin^4(\beta)\cos^3(\beta)+10i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\right.$$

$$+e^{-i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)+i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta)\right)\right.$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)-14i\sin^3(\beta)\cos^4(\beta)+14\sin^4(\beta)\cos^3(\beta)+5i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-13\sin^2(\beta)\cos^5(\beta)-17i\sin^3(\beta)\cos^4(\beta)+17\sin^4(\beta)\cos^3(\beta)+13i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\right.$$

$$+e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\right.\right.$$

$$+e^{3i\gamma}\left(-6\sin^2(\beta)\cos^5(\beta)-15i\sin^3(\beta)\cos^4(\beta)+15\sin^4(\beta)\cos^3(\beta)+6i\sin^5(\beta)\cos^2(\beta)\right)+e^{-i\gamma}\left(5i\sin(\beta)\cos^6(\beta)-13\sin^2(\right.$$

$$+e^{-5i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\,c$$

$$+e^{3i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-5i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\right.\right.$$

$$+e^{-i\gamma}\left(4i\sin(\beta)\cos^6(\beta)-9\sin^2(\beta)\cos^5(\beta)-22i\sin^3(\beta)\cos^4(\beta)+22\sin^4(\beta)\cos^3(\beta)+9i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{7i\gamma}\left(i\cos^6(\beta)\sin(\beta)-\cos(\beta)\sin^6(\beta)\right)+e^{3i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-9\sin^2(\beta)\cos^5(\beta)-9i\sin^3(\beta)\cos^4(\beta)+9\sin^4(\beta)\,c\right.$$

$$+e^{-i\gamma}\left(i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\right.$$

$$+e^{3i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-6\sin^2(\beta)\cos^5(\beta)-12i\sin^3(\beta)\cos^4(\beta)+12\sin^4(\beta)\cos^3(\beta)+6i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+11i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\right.$$

$$\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta)+\sin^4(\beta)\cos^3(\beta)\right)\right)\left(e^{5i\gamma}\left(7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)\right)+e^{i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta)+21i\sin^3(\right.\right.$$

$$+e^{-3i\gamma}\left(-7i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)+7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)-7i\sin^5(\beta)\cos^2(\beta)-7\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-7i\gamma}\left(\cos^7(\beta)+i\sin^7(\beta)\right))+e^{i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(i\sin\right.\right.$$

$$+e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)\right)+e^{-3i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\,co\right.$$

$$+e^{i\gamma}\left(\cos^7(\beta)-6i\sin(\beta)\cos^6(\beta)-12\sin^2(\beta)\cos^5(\beta)+16i\sin^3(\beta)\cos^4(\beta)+16\sin^4(\beta)\cos^3(\beta)-12i\sin^5(\beta)\cos^2(\beta)-6\sin^6(\beta)\right.$$

$$+e^{-3i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)+2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)-3i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)($$

$$+e^{5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)+6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)-i\sin^5(\beta)\cos^2(\beta)\right)+e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta)-14\sin^2(\beta)\cos^5\right.$$

$$+e^{-3i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)+11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)-5i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\right.$$

$$+e^{-3i\gamma}\left(\cos^7(\beta)-2i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)+2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)\right.$$

$$-2\sin^6(\beta)\cos(\beta)+i\sin^7(\beta)\right)\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta)+\sin^4(\beta)\cos^3(\beta)\right)+e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin\right.\right.$$

$$+e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)+21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)-11i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right.$$

$$+e^{-3i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)-8i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\,c\right.$$

$$+e^{i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-6\sin^2(\beta)\cos^5(\beta)+6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)-6i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{-\right.$$

$$+e^{-3i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)+11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)-8i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right.$$

$$+e^{5i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)+3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)-3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-10\sin^2(\beta)\cos^5(\beta)+20i\sin^3(\beta)\cos^4(\beta)+20\sin^4(\beta)\cos^3(\beta)-10i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\right.$$

$$+e^{i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)+6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)-i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos^2(\right.\right.$$

p = 0.3987616770060151

$$\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta)\right)\left(e^{-5i\gamma}\left(7\cos^3(\beta)\sin^4(\beta)-7i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+14i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{3i\gamma}\left(7i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)-7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)+7i\sin^5(\beta)\cos^2(\beta)-7\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{7i\gamma}\left(\cos^7(\beta)-i\sin^7(\beta)\right)\right)+e^{-i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)\right.$$

$$+2\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{3i\gamma}\left(i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)-13i\sin^3(\beta)\cos^4(\beta)+13\sin^4(\beta)\cos^3(\beta)+7i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+6i\sin(\beta)\cos^6(\beta)-12\sin^2(\beta)\cos^5(\beta)-16i\sin^3(\beta)\cos^4(\beta)+16\sin^4(\beta)\cos^3(\beta)+12i\sin^5(\beta)\cos^2(\beta)-6\sin^6($$

$$+e^{3i\gamma}\left(-4\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)\right.$$

$$+4i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)+i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-14\sin^2(\beta)\cos^5(\beta)-18i\sin^3(\beta)\cos^4(\beta)+18\sin^4(\beta)\cos^3(\beta)+14i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{3i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)-11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)+5i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)($$

$$+e^{3i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)\right.$$

$$+i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+11i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{3i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)+8i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos$$

$$+e^{-i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-4\sin^2(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)+4i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{7i}\right.$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)-11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)+8i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-10\sin^2(\beta)\cos^5(\beta)-20i\sin^3(\beta)\cos^4(\beta)+20\sin^4(\beta)\cos^3(\beta)+10i\sin^5(\beta)\cos^2(\beta)-4\sin^6($$

$$+e^{-i\gamma}\left(\cos^7(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-i\sin^7(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5\right.\right.$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)-14i\sin^3(\beta)\cos^4(\beta)+14\sin^4(\beta)\cos^3(\beta)+5i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-13\sin^2(\beta)\cos^5(\beta)-17i\sin^3(\beta)\cos^4(\beta)+17\sin^4(\beta)\cos^3(\beta)+13i\sin^5(\beta)\cos^2(\beta)-4\sin^6($$

$$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\right.$$

$$+e^{3i\gamma}\left(-6\sin^2(\beta)\cos^5(\beta)-15i\sin^3(\beta)\cos^4(\beta)+15\sin^4(\beta)\cos^3(\beta)+6i\sin^5(\beta)\cos^2(\beta)\right)+e^{-i\gamma}\left(5i\sin(\beta)\cos^6(\beta)-13\sin^2(\beta)\right.$$

$$+e^{-5i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)c\right.$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{-5i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4\right.\right.$$

$$+e^{-i\gamma}\left(4i\sin(\beta)\cos^6(\beta)-9\sin^2(\beta)\cos^5(\beta)-22i\sin^3(\beta)\cos^4(\beta)+22\sin^4(\beta)\cos^3(\beta)+9i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{7i\gamma}\left(i\cos^6(\beta)\sin(\beta)-\cos(\beta)\sin^6(\beta)\right)+e^{3i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-9\sin^2(\beta)\cos^5(\beta)-9i\sin^3(\beta)\cos^4(\beta)+9\sin^4(\beta)c\right.$$

$$+e^{-i\gamma}\left(-4\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)+4i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\mu\right.\right.$$

$$+e^{3i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-6\sin^2(\beta)\cos^5(\beta)-12i\sin^3(\beta)\cos^4(\beta)+12\sin^4(\beta)\cos^3(\beta)+6i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+11i\sin^5(\beta)\cos^2(\beta)-2\sin^6($$

$$\left(e^{-7i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{5i\gamma}\left(7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)\right)+e^{i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta)+21i\sin\right.\right.\right.$$

$$+e^{-3i\gamma}\left(-7i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)+7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)-7i\sin^5(\beta)\cos^2(\beta)-7\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-7i\gamma}\left(\cos^7(\beta)+i\sin^7(\beta)\right)\right)+e^{i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)+2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)\right.$$

$$-3i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta)+\sin^4(\beta)\cos^3(\beta)\right)+e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\right.\right.$$

$$+e^{-3i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)+13i\sin^3(\beta)\cos^4(\beta)+13\sin^4(\beta)\cos^3(\beta)-7i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{i\gamma}\left(\cos^7(\beta)-6i\sin(\beta)\cos^6(\beta)-12\sin^2(\beta)\cos^5(\beta)+16i\sin^3(\beta)\cos^4(\beta)+16\sin^4(\beta)\cos^3(\beta)-12i\sin^5(\beta)\cos^2(\beta)-6\sin^6(\beta\right.$$

$$+e^{-3i\gamma}\left(-4\sin^2(\beta)\cos^5(\beta)+3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)-4i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-i\sin^5(\beta)c\right.\right.$$

$$+e^{5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)+6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)-i\sin^5(\beta)\cos^2(\beta)\right)+e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta)-14\sin^2(\beta)\cos^5\right.$$

$$+e^{-3i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)+11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)-5i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta\right.$$

$$+e^{-3i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)+6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)-i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta)+\sin^4(\beta)\cos^3(\right.\right.$$

$$+e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)\right)+e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos\right.$$

$$+e^{-3i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)-8i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)c\right.$$

$$+e^{i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-4\sin^2(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)-4i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{-}\right.$$

$$+e^{-3i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)+11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)-8i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right.$$

$$+e^{5i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)+3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)-3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-10\sin^2(\beta)\cos^5(\beta)+20i\sin^3(\beta)\cos^4(\beta)+20\sin^4(\beta)\cos^3(\beta)-10i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\right.$$

$$+e^{i\gamma}\left(\cos^7(\beta)-2\sin^2(\beta)\cos^5(\beta)+4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)+i\sin^7(\beta)\right)\left(e^{-7i\gamma}\left(-\sin^2(\beta)\cos^5\right.\right.$$

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p = 0.22926040408494397

$$\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\left(e^{-5i\gamma}\left(7\cos^3(\beta)\sin^4(\beta)-7i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+14i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{3i\gamma}\left(7i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)-7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)+7i\sin^5(\beta)\cos^2(\beta)-7\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{7i\gamma}\left(\cos^7(\beta)-i\sin^7(\beta)\right)\right)+e^{-i\gamma}\left(i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)\right.$$

$$\left.+3\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{3i\gamma}\left(i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)-13i\sin^3(\beta)\cos^4(\beta)+13\sin^4(\beta)\cos^3(\beta)+7i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+6i\sin(\beta)\cos^6(\beta)-12\sin^2(\beta)\cos^5(\beta)-16i\sin^3(\beta)\cos^4(\beta)+16\sin^4(\beta)\cos^3(\beta)+12i\sin^5(\beta)\cos^2(\beta)-6\sin^6($$

$$+e^{3i\gamma}\left(i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)\right.$$

$$\left.+2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)+i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-14\sin^2(\beta)\cos^5(\beta)-18i\sin^3(\beta)\cos^4(\beta)+18\sin^4(\beta)\cos^3(\beta)+14i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{3i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)-11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)+5i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)($$

$$+e^{3i\gamma}\left(i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)\right.$$

$$\left.+3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$$

$$+e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)$$

$$+e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+11i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{3i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)+8i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-9i\sin^3(\beta)\cos^4(\beta)+9\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)$$

$$-i\sin^7(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)-11i\sin^3(\beta)\cos^4(\beta)+11\sin$$

$$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-10\sin^2(\beta)\cos^5(\beta)-20i\sin^3(\beta)\cos^4(\beta)+20\sin^4(\beta)\cos^3(\beta)+10i\sin^5(\beta)\cos^2(\beta)-4\sin^6($$

$$+e^{-i\gamma}\left(i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\right.$$

$$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)-14i\sin^3(\beta)\cos^4(\beta)+14\sin^4(\beta)\cos^3(\beta)+5i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-13\sin^2(\beta)\cos^5(\beta)-17i\sin^3(\beta)\cos^4(\beta)+17\sin^4(\beta)\cos^3(\beta)+13i\sin^5(\beta)\cos^2(\beta)-4\sin^6($$

$$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\right.$$

$$+e^{3i\gamma}\left(-6\sin^2(\beta)\cos^5(\beta)-15i\sin^3(\beta)\cos^4(\beta)+15\sin^4(\beta)\cos^3(\beta)+6i\sin^5(\beta)\cos^2(\beta)\right)+e^{-i\gamma}\left(5i\sin(\beta)\cos^6(\beta)-13\sin^2(\beta)\right.$$

$$+e^{-5i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)c$$

$$+e^{3i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-5i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\right.$$

$$+e^{-i\gamma}\left(4i\sin(\beta)\cos^6(\beta)-9\sin^2(\beta)\cos^5(\beta)-22i\sin^3(\beta)\cos^4(\beta)+22\sin^4(\beta)\cos^3(\beta)+9i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{7i\gamma}\left(i\cos^6(\beta)\sin(\beta)-\cos(\beta)\sin^6(\beta)\right)+e^{3i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-9\sin^2(\beta)\cos^5(\beta)-9i\sin^3(\beta)\cos^4(\beta)+9\sin^4(\beta)c$$

$$+e^{-i\gamma}\left(i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\right.$$

$$+e^{3i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-6\sin^2(\beta)\cos^5(\beta)-12i\sin^3(\beta)\cos^4(\beta)+12\sin^4(\beta)\cos^3(\beta)+6i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-5i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+11i\sin^5(\beta)\cos^2(\beta)-2\sin^6($$

$$\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta)+\sin^4(\beta)\cos^3(\beta)\right)\left(e^{5i\gamma}\left(7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)\right)+e^{i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta)+21i\sin^3(\right.\right.$$

$$+e^{-3i\gamma}\left(-7i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)+7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)-7i\sin^5(\beta)\cos^2(\beta)-7\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{-7i\gamma}\left(\cos^7(\beta)+i\sin^7(\beta)\right)\right)+e^{i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)+3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)-3i\sin^5(\beta)\cos\right.$$

$$\left.-\sin^6(\beta)\cos(\beta)\right)\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta)+\sin^4(\beta)\cos^3(\beta)\right)+e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)\right.\right.$$

$$+e^{-3i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)+13i\sin^3(\beta)\cos^4(\beta)+13\sin^4(\beta)\cos^3(\beta)-7i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{i\gamma}\left(\cos^7(\beta)-6i\sin(\beta)\cos^6(\beta)-12\sin^2(\beta)\cos^5(\beta)+16i\sin^3(\beta)\cos^4(\beta)+16\sin^4(\beta)\cos^3(\beta)-12i\sin^5(\beta)\cos^2(\beta)-6\sin^6(\beta$$

$$+e^{-3i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)+4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{-}\right.$$

$$+e^{5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)+6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)-i\sin^5(\beta)\cos^2(\beta)\right)+e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta)-14\sin^2(\beta)\cos^5$$

$$+e^{-3i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)+11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)-5i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta$$

$$+e^{-3i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)+3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)-3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{-}\right.$$

$$+e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)\right)+e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos$$

$$+e^{-3i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)-8i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)c$$

$$+e^{i\gamma}\left(\cos^7(\beta)-i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)+9i\sin^3(\beta)\cos^4(\beta)+9\sin^4(\beta)\cos^3(\beta)-3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)$$

$$+i\sin^7(\beta)\right)\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta)+\sin^4(\beta)\cos^3(\beta)\right)+e^{-3i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)+11i\sin^3(\beta)\cos^4(\beta)+1$$

$$+e^{5i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)+3i\sin^3(\beta)\overset{25}{\cos^4}(\beta)+3\sin^4(\beta)\cos^3(\beta)-3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$$

$$+e^{i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-10\sin^2(\beta)\cos^5(\beta)+20i\sin^3(\beta)\cos^4(\beta)+20\sin^4(\beta)\cos^3(\beta)-10i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)$$

$$+e^{i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)+4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{-7i\gamma}\right.$$

p = 0.24572465311517278

$\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta) - i\cos^4(\beta)\sin^3(\beta)\right)\left(e^{-5i\gamma}\left(7\cos^3(\beta)\sin^4(\beta) - 7i\cos^4(\beta)\sin^3(\beta)\right)\right.$

$+ e^{-i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta) - 21i\sin^3(\beta)\cos^4(\beta) + 21\sin^4(\beta)\cos^3(\beta) + 14i\sin^5(\beta)\cos^2(\beta)\right)$

$+ e^{3i\gamma}\left(7i\sin(\beta)\cos^6(\beta) - 7\sin^2(\beta)\cos^5(\beta) - 7i\sin^3(\beta)\cos^4(\beta) + 7\sin^4(\beta)\cos^3(\beta) + 7i\sin^5(\beta)\cos^2(\beta) - 7\sin^6(\beta)\cos(\beta)\right)$

$+ e^{7i\gamma}\left(\cos^7(\beta) - i\sin^7(\beta)\right)\right) + e^{-i\gamma}\left(\cos^7(\beta) + 2i\sin(\beta)\cos^6(\beta) - 2\sin^2(\beta)\cos^5(\beta) - 2i\sin^3(\beta)\cos^4(\beta)\right.$

$+ 2\sin^4(\beta)\cos^3(\beta) + 2i\sin^5(\beta)\cos^2(\beta) - 2\sin^6(\beta)\cos(\beta) - i\sin^7(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta) - i\cos^4(\beta)\sin^3(\beta)\right)\right.$

$+ e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta) - 5i\sin^3(\beta)\cos^4(\beta) + 5\sin^4(\beta)\cos^3(\beta) + 2i\sin^5(\beta)\cos^2(\beta)\right)$

$+ e^{3i\gamma}\left(i\sin(\beta)\cos^6(\beta) - 7\sin^2(\beta)\cos^5(\beta) - 13i\sin^3(\beta)\cos^4(\beta) + 13\sin^4(\beta)\cos^3(\beta) + 7i\sin^5(\beta)\cos^2(\beta) - \sin^6(\beta)\cos(\beta)\right)$

$+ e^{-i\gamma}\left(\cos^7(\beta) + 6i\sin(\beta)\cos^6(\beta) - 12\sin^2(\beta)\cos^5(\beta) - 16i\sin^3(\beta)\cos^4(\beta) + 16\sin^4(\beta)\cos^3(\beta) + 12i\sin^5(\beta)\cos^2(\beta) - 6\sin^6(\beta)\right.$

$+ e^{3i\gamma}\left(i\sin(\beta)\cos^6(\beta) - 2\sin^2(\beta)\cos^5(\beta) - 4i\sin^3(\beta)\cos^4(\beta) + 4\sin^4(\beta)\cos^3(\beta)\right.$

$+ 2i\sin^5(\beta)\cos^2(\beta) - \sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta) - \cos^5(\beta)\sin^2(\beta)\right)\right.$

$+ e^{-5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta) - 6i\sin^3(\beta)\cos^4(\beta) + 6\sin^4(\beta)\cos^3(\beta) + i\sin^5(\beta)\cos^2(\beta)\right)$

$+ e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta) - 14\sin^2(\beta)\cos^5(\beta) - 18i\sin^3(\beta)\cos^4(\beta) + 18\sin^4(\beta)\cos^3(\beta) + 14i\sin^5(\beta)\cos^2(\beta) - 3\sin^6(\beta)\cos(\beta)\right)$

$+ e^{3i\gamma}\left(\cos^7(\beta) + 4i\sin(\beta)\cos^6(\beta) - 5\sin^2(\beta)\cos^5(\beta) - 11i\sin^3(\beta)\cos^4(\beta) + 11\sin^4(\beta)\cos^3(\beta) + 5i\sin^5(\beta)\cos^2(\beta) - 4\sin^6(\beta)\right.$

$+ e^{3i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta) - 5i\sin^3(\beta)\cos^4(\beta) + 5\sin^4(\beta)\cos^3(\beta)\right.$

$+ 2i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta) - i\cos^4(\beta)\sin^3(\beta)\right)\right.$

$+ e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta) - 5i\sin^3(\beta)\cos^4(\beta) + 5\sin^4(\beta)\cos^3(\beta) + 2i\sin^5(\beta)\cos^2(\beta)\right)$

$+ e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta) - 11\sin^2(\beta)\cos^5(\beta) - 21i\sin^3(\beta)\cos^4(\beta) + 21\sin^4(\beta)\cos^3(\beta) + 11i\sin^5(\beta)\cos^2(\beta) - 3\sin^6(\beta)\cos(\beta)\right)$

$+ e^{3i\gamma}\left(\cos^7(\beta) + 4i\sin(\beta)\cos^6(\beta) - 8\sin^2(\beta)\cos^5(\beta) - 8i\sin^3(\beta)\cos^4(\beta) + 8\sin^4(\beta)\cos^3(\beta) + 8i\sin^5(\beta)\cos^2(\beta) - 4\sin^6(\beta)\cos$

$+ e^{-i\gamma}\left(2i\sin(\beta)\cos^6(\beta) - 6\sin^2(\beta)\cos^5(\beta) - 6i\sin^3(\beta)\cos^4(\beta) + 6\sin^4(\beta)\cos^3(\beta) + 6i\sin^5(\beta)\cos^2(\beta) - 2\sin^6(\beta)\cos(\beta)\right)\left(e^{7i}\right.$

$+ e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta) - 8\sin^2(\beta)\cos^5(\beta) - 11i\sin^3(\beta)\cos^4(\beta) + 11\sin^4(\beta)\cos^3(\beta) + 8i\sin^5(\beta)\cos^2(\beta) - 2\sin^6(\beta)\cos(\beta)\right)$

$+ e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta) - 3\sin^2(\beta)\cos^5(\beta) - 3i\sin^3(\beta)\cos^4(\beta) + 3\sin^4(\beta)\cos^3(\beta) + 3i\sin^5(\beta)\cos^2(\beta) - \sin^6(\beta)\cos(\beta)\right)$

$+ e^{-i\gamma}\left(\cos^7(\beta) + 4i\sin(\beta)\cos^6(\beta) - 10\sin^2(\beta)\cos^5(\beta) - 20i\sin^3(\beta)\cos^4(\beta) + 20\sin^4(\beta)\cos^3(\beta) + 10i\sin^5(\beta)\cos^2(\beta) - 4\sin^6(\beta)\right.$

$+ e^{-i\gamma}\left(2i\sin(\beta)\cos^6(\beta) - 3\sin^2(\beta)\cos^5(\beta) - 2i\sin^3(\beta)\cos^4(\beta) + 2\sin^4(\beta)\cos^3(\beta) + 3i\sin^5(\beta)\cos^2(\beta) - 2\sin^6(\beta)\cos(\beta)\right)\left(e^{7i}\right.$

$+ e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta) - 5\sin^2(\beta)\cos^5(\beta) - 14i\sin^3(\beta)\cos^4(\beta) + 14\sin^4(\beta)\cos^3(\beta) + 5i\sin^5(\beta)\cos^2(\beta) - 2\sin^6(\beta)\cos(\beta)\right)$

$+ e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta) - 2\sin^2(\beta)\cos^5(\beta) - 4i\sin^3(\beta)\cos^4(\beta) + 4\sin^4(\beta)\cos^3(\beta) + 2i\sin^5(\beta)\cos^2(\beta) - \sin^6(\beta)\cos(\beta)\right)$

$+ e^{-i\gamma}\left(\cos^7(\beta) + 4i\sin(\beta)\cos^6(\beta) - 13\sin^2(\beta)\cos^5(\beta) - 17i\sin^3(\beta)\cos^4(\beta) + 17\sin^4(\beta)\cos^3(\beta) + 13i\sin^5(\beta)\cos^2(\beta) - 4\sin^6(\beta)\right.$

$+ e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta) - 5i\sin^3(\beta)\cos^4(\beta) + 5\sin^4(\beta)\cos^3(\beta) + 2i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta) - i\cos^4(\beta)\sin^3($

$+ e^{3i\gamma}\left(-6\sin^2(\beta)\cos^5(\beta) - 15i\sin^3(\beta)\cos^4(\beta) + 15\sin^4(\beta)\cos^3(\beta) + 6i\sin^5(\beta)\cos^2(\beta)\right) + e^{-i\gamma}\left(5i\sin(\beta)\cos^6(\beta) - 13\sin^2(\beta)\right.$

$+ e^{-5i\gamma}\left(\cos^7(\beta) + 2i\sin(\beta)\cos^6(\beta) - 2\sin^2(\beta)\cos^5(\beta) - 2i\sin^3(\beta)\cos^4(\beta) + 2\sin^4(\beta)\cos^3(\beta) + 2i\sin^5(\beta)\cos^2(\beta) - 2\sin^6(\beta)c\right.$

$+ e^{3i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta) - 4i\sin^3(\beta)\cos^4(\beta) + 4\sin^4(\beta)\cos^3(\beta) + 3i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-5i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta) - 4i\sin^3(\beta)\right.\right.$

$+ e^{-i\gamma}\left(4i\sin(\beta)\cos^6(\beta) - 9\sin^2(\beta)\cos^5(\beta) - 22i\sin^3(\beta)\cos^4(\beta) + 22\sin^4(\beta)\cos^3(\beta) + 9i\sin^5(\beta)\cos^2(\beta) - 4\sin^6(\beta)\cos(\beta)\right)$

$+ e^{7i\gamma}\left(i\cos^6(\beta)\sin(\beta) - \cos(\beta)\sin^6(\beta)\right) + e^{3i\gamma}\left(\cos^7(\beta) + 2i\sin(\beta)\cos^6(\beta) - 9\sin^2(\beta)\cos^5(\beta) - 9i\sin^3(\beta)\cos^4(\beta) + 9\sin^4(\beta)c\right.$

$+ e^{-i\gamma}\left(-\sin^2(\beta)\cos^5(\beta) - 6i\sin^3(\beta)\cos^4(\beta) + 6\sin^4(\beta)\cos^3(\beta) + i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta) - \cos^5(\beta)\sin^2(\beta)\right)\right.$

$+ e^{3i\gamma}\left(3i\sin(\beta)\cos^6(\beta) - 6\sin^2(\beta)\cos^5(\beta) - 12i\sin^3(\beta)\cos^4(\beta) + 12\sin^4(\beta)\cos^3(\beta) + 6i\sin^5(\beta)\cos^2(\beta) - 3\sin^6(\beta)\cos(\beta)\right)$

$+ e^{-5i\gamma}\left(2i\sin(\beta)\cos^6(\beta) - 3\sin^2(\beta)\cos^5(\beta) - 2i\sin^3(\beta)\cos^4(\beta) + 2\sin^4(\beta)\cos^3(\beta) + 3i\sin^5(\beta)\cos^2(\beta) - 2\sin^6(\beta)\cos(\beta)\right)$

$+ e^{-i\gamma}\left(\cos^7(\beta) + 2i\sin(\beta)\cos^6(\beta) - 11\sin^2(\beta)\cos^5(\beta) - 21i\sin^3(\beta)\cos^4(\beta) + 21\sin^4(\beta)\cos^3(\beta) + 11i\sin^5(\beta)\cos^2(\beta) - 2\sin^6(\beta)\right.$

$\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta) + \sin^4(\beta)\cos^3(\beta)\right)\right)\left(e^{5i\gamma}\left(7i\sin^3(\beta)\cos^4(\beta) + 7\sin^4(\beta)\cos^3(\beta)\right) + e^{i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta) + 21i\sin^3($

$+ e^{-3i\gamma}\left(-7i\sin(\beta)\cos^6(\beta) - 7\sin^2(\beta)\cos^5(\beta) + 7i\sin^3(\beta)\cos^4(\beta) + 7\sin^4(\beta)\cos^3(\beta) - 7i\sin^5(\beta)\cos^2(\beta) - 7\sin^6(\beta)\cos(\beta)\right)$

$+ e^{-7i\gamma}\left(\cos^7(\beta) + i\sin^7(\beta)\right)\right) + e^{i\gamma}\left(\cos^7(\beta) - 2i\sin(\beta)\cos^6(\beta) - 2\sin^2(\beta)\cos^5(\beta) + 2i\sin^3(\beta)\cos^4(\beta) + 2\sin^4(\beta)\cos^3(\beta)\right.$

$- 2i\sin^5(\beta)\cos^2(\beta) - 2\sin^6(\beta)\cos(\beta) + i\sin^7(\beta)\right)\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta) + \sin^4(\beta)\cos^3(\beta)\right)\right) + e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta) + 5i\sin\right.$

$+ e^{-3i\gamma}\left(-i\sin(\beta)\cos^6(\beta) - 7\sin^2(\beta)\cos^5(\beta) + 13i\sin^3(\beta)\cos^4(\beta) + 13\sin^4(\beta)\cos^3(\beta) - 7i\sin^5(\beta)\cos^2(\beta) - \sin^6(\beta)\cos(\beta)\right)$

$+ e^{i\gamma}\left(\cos^7(\beta) - 6i\sin(\beta)\cos^6(\beta) - 12\sin^2(\beta)\cos^5(\beta) + 16i\sin^3(\beta)\cos^4(\beta) + 16\sin^4(\beta)\cos^3(\beta) - 12i\sin^5(\beta)\cos^2(\beta) - 6\sin^6(\beta)\right.$

$+ e^{-3i\gamma}\left(-i\sin(\beta)\cos^6(\beta) - 2\sin^2(\beta)\cos^5(\beta) + 4i\sin^3(\beta)\cos^4(\beta) + 4\sin^4(\beta)\cos^3(\beta) - 2i\sin^5(\beta)\cos^2(\beta) - \sin^6(\beta)\cos(\beta)\right)\left(e^{-\right.}$

$+ e^{5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta) + 6i\sin^3(\beta)\cos^4(\beta) + 6\sin^4(\beta)\cos^3(\beta) - i\sin^5(\beta)\cos^2(\beta)\right) + e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta) - 14\sin^2(\beta)\cos^5\right.$

$+ e^{-3i\gamma}\left(\cos^7(\beta) - 4i\sin(\beta)\cos^6(\beta) - 5\sin^2(\beta)\cos^5(\beta) + 11i\sin^3(\beta)\cos^4(\beta) + 11\sin^4(\beta)\cos^3(\beta) - 5i\sin^5(\beta)\cos^2(\beta) - 4\sin^6(\beta)\right.$

$+ e^{-3i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta) + 5i\sin^3(\beta)\cos^4(\beta) + 5\sin^4(\beta)\cos^3(\beta) - 2i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta) + \sin^4(\beta)\cos\right.\right.$

$+ e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta) + 5i\sin^3(\beta)\cos^4(\beta) + 5\sin^4(\beta)\cos^3(\beta) - 2i\sin^5(\beta)\cos^2(\beta)\right) + e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta) - 11\sin^2(\beta)\cos\right.$

$+ e^{-3i\gamma}\left(\cos^7(\beta) - 4i\sin(\beta)\cos^6(\beta) - 8\sin^2(\beta)\cos^5(\beta) + 8i\sin^3(\beta)\cos^4(\beta) + 8\sin^4(\beta)\cos^3(\beta) - 8i\sin^5(\beta)\cos^2(\beta) - 4\sin^6(\beta)c\right.$

$+ e^{i\gamma}\left(-2i\sin(\beta)\cos^6(\beta) - 6\sin^2(\beta)\cos^5(\beta) + 6i\sin^3(\beta)\cos^4(\beta) + 6\sin^4(\beta)\cos^3(\beta) - 6i\sin^5(\beta)\cos^2(\beta) - 2\sin^6(\beta)\cos(\beta)\right)\left(e^{-\right.}$

$+ e^{-3i\gamma}\left(-2i\sin(\beta)\cos^6(\beta) - 8\sin^2(\beta)\cos^5(\beta) + 11i\sin^3(\beta)\cos^4(\beta) + 11\sin^4(\beta)\cos^3(\beta) - 8i\sin^5(\beta)\cos^2(\beta) - 2\sin^6(\beta)\cos(\beta)\right.$

$+ e^{5i\gamma}\left(-i\sin(\beta)\cos^6(\beta) - 3\sin^2(\beta)\cos^5(\beta) + 3i\sin^3(\beta)\cos^4(\beta) + 3\sin^4(\beta)\cos^3(\beta) - 3i\sin^5(\beta)\cos^2(\beta) - \sin^6(\beta)\cos(\beta)\right)$

$+ e^{i\gamma}\left(\cos^7(\beta) - 4i\sin(\beta)\cos^6(\beta) - 10\sin^2(\beta)\cos^5(\beta) + 20i\sin^3(\beta)\cos^4(\beta) + 20\sin^4(\beta)\cos^3(\beta) - 10i\sin^5(\beta)\cos^2(\beta) - 4\sin^6(\beta)\right.$

$+ e^{i\gamma}\left(-2i\sin(\beta)\cos^6(\beta) - 3\sin^2(\beta)\cos^5(\beta) + 2i\sin^3(\beta)\cos^4(\beta) + 2\sin^4(\beta)\cos^3(\beta) - 3i\sin^5(\beta)\cos^2(\beta) - 2\sin^6(\beta)\cos(\beta)\right)\left(e^{-\right.}$

p = 0.35546774787757035

$\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\left(e^{-5i\gamma}\left(7\cos^3(\beta)\sin^4(\beta)-7i\cos^4(\beta)\sin^3(\beta)\right)\right.$

$+\,e^{-i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+14i\sin^5(\beta)\cos^2(\beta)\right)$

$+e^{3i\gamma}\left(7i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)-7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)+7i\sin^5(\beta)\cos^2(\beta)-7\sin^6(\beta)\cos(\beta)\right)$

$+\,e^{7i\gamma}\left(\cos^7(\beta)-i\sin^7(\beta)\right)\big)+e^{-i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)\right.$

$+\,5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\big)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$

$+\,e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)$

$+e^{3i\gamma}\left(i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)-13i\sin^3(\beta)\cos^4(\beta)+13\sin^4(\beta)\cos^3(\beta)+7i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$

$+e^{-i\gamma}\left(\cos^7(\beta)+6i\sin(\beta)\cos^6(\beta)-12\sin^2(\beta)\cos^5(\beta)-16i\sin^3(\beta)\cos^4(\beta)+16\sin^4(\beta)\cos^3(\beta)+12i\sin^5(\beta)\cos^2(\beta)-6\sin^6(\beta)\right.$

$+\,e^{3i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)\right.$

$+\,i\sin^5(\beta)\cos^2(\beta)\big)\left(e^{7i\gamma}\left(i\cos^2(\beta)\sin^5(\beta)-\cos^5(\beta)\sin^2(\beta)\right)\right.$

$+\,e^{-5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)+i\sin^5(\beta)\cos^2(\beta)\right)$

$+e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-14\sin^2(\beta)\cos^5(\beta)-18i\sin^3(\beta)\cos^4(\beta)+18\sin^4(\beta)\cos^3(\beta)+14i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$

$+e^{3i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)-11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)+5i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)$

$+\,e^{3i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)\right.$

$+\,2i\sin^5(\beta)\cos^2(\beta)\big)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right.$

$+\,e^{-5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)-5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right)$

$+e^{-i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+11i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$

$+e^{3i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)-8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)+8i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos$

$+e^{-i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-6\sin^2(\beta)\cos^5(\beta)-6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)+6i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{7i}\right.$

$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)-11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)+8i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$

$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$

$+e^{-i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-10\sin^2(\beta)\cos^5(\beta)-20i\sin^3(\beta)\cos^4(\beta)+20\sin^4(\beta)\cos^3(\beta)+10i\sin^5(\beta)\cos^2(\beta)-4\sin^6($

$+e^{-i\gamma}\left(i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{7i\gamma}\right.$

$+e^{3i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)-14i\sin^3(\beta)\cos^4(\beta)+14\sin^4(\beta)\cos^3(\beta)+5i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$

$+e^{-5i\gamma}\left(i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$

$+e^{-i\gamma}\left(\cos^7(\beta)+4i\sin(\beta)\cos^6(\beta)-13\sin^2(\beta)\cos^5(\beta)-17i\sin^3(\beta)\cos^4(\beta)+17\sin^4(\beta)\cos^3(\beta)+13i\sin^5(\beta)\cos^2(\beta)-4\sin^6($

$+e^{-5i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)\right.$

$-\,2\sin^6(\beta)\cos(\beta)-i\sin^7(\beta)\big)\left(e^{7i\gamma}\left(\cos^3(\beta)\sin^4(\beta)-i\cos^4(\beta)\sin^3(\beta)\right)\right)+e^{3i\gamma}\left(-6\sin^2(\beta)\cos^5(\beta)-15i\sin^3(\beta)\cos^4(\beta)+15\sin\right.$

$+e^{-i\gamma}\left(5i\sin(\beta)\cos^6(\beta)-13\sin^2(\beta)\cos^5(\beta)-17i\sin^3(\beta)\cos^4(\beta)+17\sin^4(\beta)\cos^3(\beta)+13i\sin^5(\beta)\cos^2(\beta)-5\sin^6(\beta)\cos(\beta)\right)$

$+e^{-5i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+2i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)$ c

$+e^{3i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-5i\gamma}\left(-3\sin^2(\beta)\cos^5(\beta)-4i\sin^3(\beta)\right.\right.$

$+e^{-i\gamma}\left(4i\sin(\beta)\cos^6(\beta)-9\sin^2(\beta)\cos^5(\beta)-22i\sin^3(\beta)\cos^4(\beta)+22\sin^4(\beta)\cos^3(\beta)+9i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\cos(\beta)\right)$

$+e^{7i\gamma}\left(i\cos^6(\beta)\sin(\beta)-\cos(\beta)\sin^6(\beta)\right)+e^{3i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-9\sin^2(\beta)\cos^5(\beta)-9i\sin^3(\beta)\cos^4(\beta)+9\sin^4(\beta)\right.$ c

$+e^{-i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{7i}\right.$

$+e^{3i\gamma}\left(3i\sin(\beta)\cos^6(\beta)-6\sin^2(\beta)\cos^5(\beta)-12i\sin^3(\beta)\cos^4(\beta)+12\sin^4(\beta)\cos^3(\beta)+6i\sin^5(\beta)\cos^2(\beta)-3\sin^6(\beta)\cos(\beta)\right)$

$+e^{-5i\gamma}\left(2i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)-2i\sin^3(\beta)\cos^4(\beta)+2\sin^4(\beta)\cos^3(\beta)+3i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)$

$+e^{-i\gamma}\left(\cos^7(\beta)+2i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos^5(\beta)-21i\sin^3(\beta)\cos^4(\beta)+21\sin^4(\beta)\cos^3(\beta)+11i\sin^5(\beta)\cos^2(\beta)-2\sin^6($

$\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta)+\sin^4(\beta)\cos^3(\beta)\right)\left(e^{5i\gamma}\left(7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)\right)+e^{i\gamma}\left(-14\sin^2(\beta)\cos^5(\beta)+21i\sin^3(\right.\right.\right.$

$+e^{-3i\gamma}\left(-7i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos^5(\beta)+7i\sin^3(\beta)\cos^4(\beta)+7\sin^4(\beta)\cos^3(\beta)-7i\sin^5(\beta)\cos^2(\beta)-7\sin^6(\beta)\cos(\beta)\right)$

$+e^{-7i\gamma}\left(\cos^7(\beta)+i\sin^7(\beta)\right)\big)+e^{i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(i\sin\right.\right.$

$+e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)\right)+e^{-3i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-7\sin^2(\beta)\cos\right.$

$+e^{i\gamma}\left(\cos^7(\beta)-6i\sin(\beta)\cos^6(\beta)-12\sin^2(\beta)\cos^5(\beta)+16i\sin^3(\beta)\cos^4(\beta)+16\sin^4(\beta)\cos^3(\beta)-12i\sin^5(\beta)\cos^2(\beta)-6\sin^6(\beta)$

$+e^{-3i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)+6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)-i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)-i\sin^5(\beta)\cos\right.\right.$

$+e^{5i\gamma}\left(-\sin^2(\beta)\cos^5(\beta)+6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)-i\sin^5(\beta)\cos^2(\beta)\right)+e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta)-14\sin^2(\beta)\cos^5\right.$

$+e^{-3i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-5\sin^2(\beta)\cos^5(\beta)+11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)-5i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)$

$+e^{-3i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)\right)\left(e^{-7i\gamma}\left(i\sin^3(\beta)\cos^4(\beta)+\sin^4(\beta)\cos\right.\right.$

$+e^{5i\gamma}\left(-2\sin^2(\beta)\cos^5(\beta)+5i\sin^3(\beta)\cos^4(\beta)+5\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)\right)+e^{i\gamma}\left(-3i\sin(\beta)\cos^6(\beta)-11\sin^2(\beta)\cos\right.$

$+e^{-3i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)+8i\sin^3(\beta)\cos^4(\beta)+8\sin^4(\beta)\cos^3(\beta)-8i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)\ $c

$+e^{i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-6\sin^2(\beta)\cos^5(\beta)+6i\sin^3(\beta)\cos^4(\beta)+6\sin^4(\beta)\cos^3(\beta)-6i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right)\left(e^{-}\right.$

$+e^{-3i\gamma}\left(-2i\sin(\beta)\cos^6(\beta)-8\sin^2(\beta)\cos^5(\beta)+11i\sin^3(\beta)\cos^4(\beta)+11\sin^4(\beta)\cos^3(\beta)-8i\sin^5(\beta)\cos^2(\beta)-2\sin^6(\beta)\cos(\beta)\right.$

$+e^{5i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-3\sin^2(\beta)\cos^5(\beta)+3i\sin^3(\beta)\cos^4(\beta)+3\sin^4(\beta)\cos^3(\beta)-3i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)$

$+e^{i\gamma}\left(\cos^7(\beta)-4i\sin(\beta)\cos^6(\beta)-10\sin^2(\beta)\cos^5(\beta)+20i\sin^3(\beta)\cos^4(\beta)+20\sin^4(\beta)\cos^3(\beta)-10i\sin^5(\beta)\cos^2(\beta)-4\sin^6(\beta)$

$+e^{i\gamma}\left(-i\sin(\beta)\cos^6(\beta)-2\sin^2(\beta)\cos^5(\beta)+4i\sin^3(\beta)\cos^4(\beta)+4\sin^4(\beta)\cos^3(\beta)-2i\sin^5(\beta)\cos^2(\beta)-\sin^6(\beta)\cos(\beta)\right)\left(e^{-7i\gamma}\right.$

$p = 0.720129616089108$

$$\Big(4\cos^4(\beta)\left(\cos^8(\beta)+8i\sin(\beta)\cos^7(\beta)-20\sin^2(\beta)\cos^6(\beta)-24i\sin^3(\beta)\cos^5(\beta)\right.$$
$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+34\sin^4(\beta)\cos^4(\beta)$$
$$+24i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)-8i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$
$$+e^{-4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)$$
$$+e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\Big)\sin^4(\beta)$$
$$+16\cos^4(\beta)\left(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-26i\sin^3(\beta)\cos^5(\beta)\right.$$
$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+42\sin^4(\beta)\cos^4(\beta)$$
$$+26i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$
$$+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\cdots\right.$$
$$+e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\cdots\right.$$
$$+16\cos^4(\beta)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)\right.$$
$$+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)$$
$$-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-7\sin^6(\beta)\cos^2(\beta)-\cdots\right.$$
$$+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)-\cdots\right.$$
$$+2e^{-8i\gamma}\cos^4(\beta)\left(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos^4(\beta)\right.$$
$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)+e^{-4i\gamma}\left(8i\sin\cdots\right.$$
$$+e^{-8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right)\Big)\sin^4(\beta)+8e^{-4i\gamma}\cos^4(\beta)\left(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)\right.$$
$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)\cdots$$
$$+e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(\cos^8(\beta)\cdots\right.$$
$$+8e^{4i\gamma}\cos^4(\beta)\left(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)\right.$$
$$+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5\cdots\right.$$
$$+e^{4i\gamma}\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+6\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos\cdots\right.$$
$$+16e^{-4i\gamma}\cos^4(\beta)\left(4i\sin(\beta)\cos^7(\beta)-19\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+38\sin^4(\beta)\cos^4(\beta)\right.$$
$$+28i\sin^5(\beta)\cos^3(\beta)-19\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{4i\gamma}\left(-3\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+18\sin^4(\beta)\cos^4(\beta)\cdots\right.$$
$$+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+12\cdots\right.$$
$$+\left(16i\cos^3(\beta)\sin^5(\beta)-16i\cos^5(\beta)\sin^3(\beta)\right)\left(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)\right.$$
$$+30\sin^4(\beta)\cos^4(\beta)+32i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\cdots\right.$$
$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4\cdots\right.$$
$$+e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\cdots\right.$$
$$+\left(16i\cos^3(\beta)\sin^5(\beta)-16i\cos^5(\beta)\sin^3(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-34i\sin^3(\beta)\cos^5(\beta)\right.$$
$$+38\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\cdots\right.$$
$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos\cdots\right.$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-\cdots\right.$$
$$+\left(-8\sin^2(\beta)\cos^6(\beta)-8\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\cdots\right.$$
$$+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos\cdots\right.$$
$$+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-7\sin^6(\beta)\cos^2(\beta)\cdots\right.$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)-\cdots\right.$$
$$+\left(-4\sin^2(\beta)\cos^6(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-18\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos\cdots\right.$$
$$+28i\sin^5(\beta)\cos^3(\beta)-18\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)$$
$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos\cdots\right.$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)-\cdots\right.$$
$$+\left(-8\sin^2(\beta)\cos^6(\beta)-8\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-14\sin^2(\beta)\cos^6(\beta)-30i\sin^3(\beta)\cos^5(\beta)+46\sin^4(\beta)\cos\cdots\right.$$
$$+30i\sin^5(\beta)\cos^3(\beta)-14\sin^6(\beta)\cos^2(\beta)-2i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)$$
$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos\cdots\right.$$
$$+e^{4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+13i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\cdots\right.$$
$$+e^{8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right)\left(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos^4(\beta)\right.$$
$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{-4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)$$
$$+e^{4i\gamma}\left(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8i\cdots\right.$$
$$+e^{8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right)\Big)+e^{-4i\gamma}\left(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)\right.$$
$$-33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)\cdots\right.$$
$$+e^{4i\gamma}\left(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\right)+e^{-8i\gamma}\left(i\cos^7(\cdots\right.$$
$$+e^{-4i\gamma}\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10\sin\cdots\right.$$
$$+e^{4i\gamma}\left(8i\cos^7(\beta)\sin(\beta)-8i\cos(\beta)\sin^7(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta)\cdots\right.$$

p = 0.21388444773258236

p = 0.21388444773258236

$$\left(\left(2i\cos^3(\beta)\sin^5(\beta)-2i\cos^5(\beta)\sin^3(\beta)\right)\left(\cos^8(\beta)+8i\sin(\beta)\cos^7(\beta)-20\sin^2(\beta)\cos^6(\beta)\right.\right.$$
$$-24i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+34\sin^4(\beta)\cos^4(\beta)$$
$$+24i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)-8i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$
$$+e^{-4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)$$
$$+e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\right)$$
$$+\left(-6\sin^2(\beta)\cos^6(\beta)+20\sin^4(\beta)\cos^4(\beta)-6\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)\right.$$
$$-32i\sin^3(\beta)\cos^5(\beta)+30\sin^4(\beta)\cos^4(\beta)+32i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)$$
$$+\sin^8(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)$$
$$+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+\left(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\right)\left(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)\right.$$
$$-26i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+42\sin^4(\beta)\cos^4(\beta)$$
$$+26i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$
$$+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+\left(-6\sin^2(\beta)\cos^6(\beta)+20\sin^4(\beta)\cos^4(\beta)-6\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-34i\sin^3(\beta)\cos$$
$$+38\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\right.$$
$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-$$
$$+\left(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\right.$$
$$+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\right.$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-7\sin^6(\beta)\cos^2(\beta)-$$
$$+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)$$
$$+\left(2i\sin(\beta)\cos^7(\beta)-6i\sin^3(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta\right.$$
$$-28i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)$$
$$+\sin^8(\beta)+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)-$$
$$+\left(i\sin(\beta)\cos^7(\beta)-3i\sin^3(\beta)\cos^5(\beta)+3i\sin^5(\beta)\cos^3(\beta)-i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-18\sin^2(\beta)\cos^6(\beta)\right.$$
$$-28i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-18\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2\right.$$
$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)-$$
$$+\left(2i\sin(\beta)\cos^7(\beta)-6i\sin^3(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-14\sin^2(\beta)\cos^6(\beta\right.$$
$$-30i\sin^3(\beta)\cos^5(\beta)+46\sin^4(\beta)\cos^4(\beta)+30i\sin^5(\beta)\cos^3(\beta)-14\sin^6(\beta)\cos^2(\beta)-2i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2\right.$$
$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos$$
$$+e^{4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+13i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)\left(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos$$
$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)+e^{-4i\gamma}\left(8i\sin\right.$$
$$+e^{-8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right)\big)$$
$$+e^{8i\gamma}\left(i\cos^7(\beta)\sin(\beta)-i\cos(\beta)\sin^7(\beta)\right)\left(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos^4$$
$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{-4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)$$
$$+e^{4i\gamma}\left(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8i$$
$$+e^{8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right)\big)$$
$$+e^{-4i\gamma}\left(-3\sin^2(\beta)\cos^6(\beta)+10\sin^4(\beta)\cos^4(\beta)-3\sin^6(\beta)\cos^2(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta)\right.$$
$$+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)$$
$$+e^{4i\gamma}\left(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\right)+e^{-8i\gamma}\left(i\cos^7(\beta\right.$$
$$+e^{-4i\gamma}\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10\sin$$
$$+e^{4i\gamma}\left(\cos^8(\beta)-7\sin^2(\beta)\cos^6(\beta)-7\sin^6(\beta)\cos^2(\beta)+\sin^8(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta)\right.$$
$$+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)$$
$$+e^{-4i\gamma}\left(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\right)+e^{8i\gamma}\left(i\cos^7(\beta\right.$$
$$+e^{4i\gamma}\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10i\sin$$
$$+e^{-4i\gamma}\left(-3\sin^2(\beta)\cos^6(\beta)+10\sin^4(\beta)\cos^4(\beta)-3\sin^6_{3}(\beta)\cos^2(\beta)\right)\left(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-34i\sin^3(\beta)\cos^5(\beta\right.$$
$$+32\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)$$
$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos$$
$$+e^{-4i\gamma}\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)$$

p = 0.20110445623132936

$$\left(2e^{-8i\gamma}\cos^4(\beta)\left(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos^4(\beta)\right.\right.$$

$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right))$$

$$+e^{-4i\gamma}\left(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8\right.$$

$$+e^{-8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right))\sin^4(\beta)+\left(-\sin^2(\beta)\cos^6(\beta)+2\sin^4(\beta)\cos^4(\beta)-\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)\right.$$

$$+8i\sin(\beta)\cos^7(\beta)-20\sin^2(\beta)\cos^6(\beta)-24i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)$$

$$+34\sin^4(\beta)\cos^4(\beta)+24i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)-8i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$

$$+e^{-4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)$$

$$+e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right))$$

$$+\left(2i\sin(\beta)\cos^7(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta)\right.$$

$$+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+30\sin^4(\beta)\cos^4(\beta)$$

$$+32i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$

$$+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)$$

$$+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$

$$+e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$

$$+\left(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-26i\sin^3(\beta)\cos^5\right.$$

$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+42\sin^4(\beta)\cos^4(\beta)+26i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta$$

$$+\sin^8(\beta)+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\right.$$

$$+e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$

$$+\left(2i\sin(\beta)\cos^7(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^{7}\right.$$

$$-34i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(i\cos^3\right.$$

$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^{}\right.$$

$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-$$

$$+\left(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^{}\right.$$

$$+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$

$$+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^{}\right.$$

$$+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)\right.$$

$$+\left(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^{}\right.$$

$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$

$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^{}\right.$$

$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)-$$

$$+\left(-2\sin^2(\beta)\cos^6(\beta)+4\sin^4(\beta)\cos^4(\beta)-2\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-18\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^{}\right.$$

$$+38\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-18\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\right.$$

$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^{}\right.$$

$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)-$$

$$+\left(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-14\sin^2(\beta)\cos^6(\beta)-30i\sin^3(\beta)\cos^{}\right.$$

$$+46\sin^4(\beta)\cos^4(\beta)+30i\sin^5(\beta)\cos^3(\beta)-14\sin^6(\beta)\cos^2(\beta)-2i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\right.$$

$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^{}\right.$$

$$+e^{4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+13i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$

$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)\left(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos^{}\right.$$

$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{-4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)$$

$$+e^{4i\gamma}\left(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8i$$

$$+e^{8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right))$$

$$+e^{-4i\gamma}\left(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta)\right.$$

$$+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{4i\gamma}\left(-6\sin^2(\beta)\cos^{}\right.$$

$$+e^{-8i\gamma}\left(i\cos^7(\beta)\sin(\beta)-i\cos(\beta)\sin^7(\beta)\right)+e^{-4i\gamma}\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^{}\right.$$

$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-6i\sin^3(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)\right.$$

$$-33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)\right.$$

$$+e^{-4i\gamma}\left(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\right)+e^{8i\gamma}\left(i\cos^7(\beta)\right.$$

$$+e^{4i\gamma}\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10\sin^6\right.$$

$$+e^{-4i\gamma}\left(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\right)\left(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-34i\sin^3(\beta)\cos^5(\beta)+32\sin^4(\beta)\cos^4(\beta)\right.$$

$$+34i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5\right.$$

$$+e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(\cos^8(\beta)\right.$$

$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-6i\sin^3(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)\right.$$

$$-34i\sin^3(\beta)\cos^5(\beta)+32\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)\right.$$

p = 0.29405126138548393

$\big(4\cos^4(\beta)\,\big(\cos^8(\beta) + 8i\sin(\beta)\cos^7(\beta) - 20\sin^2(\beta)\cos^6(\beta) - 24i\sin^3(\beta)\cos^5(\beta)$

$+ 2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta) + 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta) + 34\sin^4(\beta)\cos^4(\beta)$

$+ 24i\sin^5(\beta)\cos^3(\beta) - 20\sin^6(\beta)\cos^2(\beta) - 8i\sin^7(\beta)\cos(\beta) + \sin^8(\beta)$

$+ e^{-4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta) - 16i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 16i\sin^5(\beta)\cos^3(\beta) - 4\sin^6(\beta)\cos^2(\beta)\big)$

$+ e^{4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta) - 16i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 16i\sin^5(\beta)\cos^3(\beta) - 4\sin^6(\beta)\cos^2(\beta)\big)\big)\sin^4(\beta)$

$+ \big(16i\cos^3(\beta)\sin^5(\beta) - 16i\cos^5(\beta)\sin^3(\beta)\big)\big(\cos^8(\beta) + 6i\sin(\beta)\cos^7(\beta) - 16\sin^2(\beta)\cos^6(\beta)$

$- 32i\sin^3(\beta)\cos^5(\beta) + 30\sin^4(\beta)\cos^4(\beta) + 32i\sin^5(\beta)\cos^3(\beta) - 16\sin^6(\beta)\cos^2(\beta) - 6i\sin^7(\beta)\cos(\beta)$

$+ \sin^8(\beta) + e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\big) + e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\big)$

$+ e^{-4i\gamma}\big(i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 11i\sin^3(\beta)\cos^5(\beta) + 20\sin^4(\beta)\cos^4(\beta) + 11i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta) - $

$+ e^{4i\gamma}\big(i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 11i\sin^3(\beta)\cos^5(\beta) + 20\sin^4(\beta)\cos^4(\beta) + 11i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta) - $

$+ \big(-2\sin^2(\beta)\cos^6(\beta) + 12\sin^4(\beta)\cos^4(\beta) - 2\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta) + 6i\sin(\beta)\cos^7(\beta)$

$- 16\sin^2(\beta)\cos^6(\beta) - 26i\sin^3(\beta)\cos^5(\beta) + 2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta) + 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)$

$+ 42\sin^4(\beta)\cos^4(\beta) + 26i\sin^5(\beta)\cos^3(\beta) - 16\sin^6(\beta)\cos^2(\beta) - 6i\sin^7(\beta)\cos(\beta) + \sin^8(\beta)$

$+ e^{-4i\gamma}\big(i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 15i\sin^3(\beta)\cos^5(\beta) + 12\sin^4(\beta)\cos^4(\beta) + 15i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta) - $

$+ e^{4i\gamma}\big(i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 15i\sin^3(\beta)\cos^5(\beta) + 12\sin^4(\beta)\cos^4(\beta) + 15i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta) - $

$+ \big(2i\sin(\beta)\cos^7(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 14i\sin^5(\beta)\cos^3(\beta) - 2i\sin^7(\beta)\cos(\beta)\big)\big(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta)$

$- 12\sin^2(\beta)\cos^6(\beta) - 34i\sin^3(\beta)\cos^5(\beta) + 38\sin^4(\beta)\cos^4(\beta) + 34i\sin^5(\beta)\cos^3(\beta) - 12\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta)$

$+ \sin^8(\beta) + e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\big) + e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\big) + e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - $

$+ e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 10i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 10i\sin^5(\beta)\cos^3(\beta) - 8\sin^6(\beta)\cos^2(\beta) - $

$+ \big(-4\sin^2(\beta)\cos^6(\beta) + 8\sin^4(\beta)\cos^4(\beta) - 4\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 15\sin^2(\beta)\cos^6(\beta) - 28i\sin^3(\beta)\cos$

$+ 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta) + 44\sin^4(\beta)\cos^4(\beta) + 28i\sin^5(\beta)\cos^3(\beta) - 15\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + \sin^8(\beta)$

$+ e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\big) + e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 7\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 10\sin^4(\beta)\cos^4$

$+ e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 5\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 14\sin^4(\beta)\cos^4(\beta) + 14i\sin^5(\beta)\cos^3(\beta) - 5\sin^6(\beta)\cos^2(\beta) - $

$+ \big(-4\sin^2(\beta)\cos^6(\beta) + 8\sin^4(\beta)\cos^4(\beta) - 4\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 15\sin^2(\beta)\cos^6(\beta) - 28i\sin^3(\beta)\cos$

$+ 2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta) + 44\sin^4(\beta)\cos^4(\beta) + 28i\sin^5(\beta)\cos^3(\beta) - 15\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + \sin^8(\beta)$

$+ e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\big) + e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 7\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 10\sin^4(\beta)\cos$

$+ e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 5\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 14\sin^4(\beta)\cos^4(\beta) + 14i\sin^5(\beta)\cos^3(\beta) - 5\sin^6(\beta)\cos^2(\beta) - $

$+ \big(-2\sin^2(\beta)\cos^6(\beta) + 4\sin^4(\beta)\cos^4(\beta) - 2\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 18\sin^2(\beta)\cos^6(\beta) - 28i\sin^3(\beta)\cos$

$+ 38\sin^4(\beta)\cos^4(\beta) + 28i\sin^5(\beta)\cos^3(\beta) - 18\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + \sin^8(\beta) + e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta$

$+ e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\big) + e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 4\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos$

$+ e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 4\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 14i\sin^5(\beta)\cos^3(\beta) - 4\sin^6(\beta)\cos^2(\beta) - $

$+ \big(\cos^8(\beta) - 2\sin^2(\beta)\cos^6(\beta) + 10\sin^4(\beta)\cos^4(\beta) - 2\sin^6(\beta)\cos^2(\beta) + \sin^8(\beta)\big)\big(\cos^8(\beta) + 2i\sin(\beta)\cos^7(\beta) - 14\sin^2(\beta)\cos^6(\beta)$

$- 30i\sin^3(\beta)\cos^5(\beta) + 46\sin^4(\beta)\cos^4(\beta) + 30i\sin^5(\beta)\cos^3(\beta) - 14\sin^6(\beta)\cos^2(\beta) - 2i\sin^7(\beta)\cos(\beta) + \sin^8(\beta) + e^{-8i\gamma}\big(-\sin^2$

$+ e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\big) + e^{-4i\gamma}\big(3i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 13i\sin^3(\beta)\cos^5(\beta) + 12\sin^4(\beta)\cos$

$+ e^{4i\gamma}\big(3i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 13i\sin^3(\beta)\cos^5(\beta) + 12\sin^4(\beta)\cos^4(\beta) + 13i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta) - $

$+ e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\big)\big(-20\sin^2(\beta)\cos^6(\beta) - 32i\sin^3(\beta)\cos^5(\beta) + 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta) + 36\sin^4(\beta)\cos$

$+ 32i\sin^5(\beta)\cos^3(\beta) - 20\sin^6(\beta)\cos^2(\beta) + e^{4i\gamma}\big(-16i\sin^3(\beta)\cos^5(\beta) + 24\sin^4(\beta)\cos^4(\beta) + 16i\sin^5(\beta)\cos^3(\beta)\big) + e^{-4i\gamma}\big(8i\sin$

$+ e^{-8i\gamma}\big(\cos^8(\beta) + \sin^8(\beta)\big)\big) + e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\big)\big(-20\sin^2(\beta)\cos^6(\beta) - 32i\sin^3(\beta)\cos^5(\beta)$

$+ 2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta) + 36\sin^4(\beta)\cos^4(\beta) + 32i\sin^5(\beta)\cos^3(\beta) - 20\sin^6(\beta)\cos^2(\beta) + e^{-4i\gamma}\big(-16i\sin^3(\beta)\cos^5(\beta) + 24\sin^4($

$+ e^{4i\gamma}\big(8i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 8i\sin^3(\beta)\cos^5(\beta) + 8\sin^4(\beta)\cos^4(\beta) + 8i\sin^5(\beta)\cos^3(\beta) - 8\sin^6(\beta)\cos^2(\beta) - 8i\sin$

$+ e^{8i\gamma}\big(\cos^8(\beta) + \sin^8(\beta)\big)\big) + e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 6i\sin^3(\beta)\cos^5(\beta) + 6i\sin^5(\beta)\cos^3(\beta) - 2i\sin^7(\beta)\cos(\beta)\big)\big(5i\sin(\beta)\cos$

$- 12\sin^2(\beta)\cos^6(\beta) - 33i\sin^3(\beta)\cos^5(\beta) + 40\sin^4(\beta)\cos^4(\beta) + 33i\sin^5(\beta)\cos^3(\beta) - 12\sin^6(\beta)\cos^2(\beta) - 5i\sin^7(\beta)\cos(\beta)$

$+ e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\big) + e^{4i\gamma}\big(-6\sin^2(\beta)\cos^6(\beta) - 12i\sin^3(\beta)\cos^5(\beta) + 20\sin^4(\beta)\cos^4(\beta) + 12i\sin^5(\beta)\cos$

$+ e^{-8i\gamma}\big(i\cos^7(\beta)\sin(\beta) - i\cos(\beta)\sin^7(\beta)\big) + e^{-4i\gamma}\big(\cos^8(\beta) + 2i\sin(\beta)\cos^7(\beta) - 10\sin^2(\beta)\cos^6(\beta) - 10i\sin^3(\beta)\cos^5(\beta) + 10\sin$

$+ e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 6i\sin^3(\beta)\cos^5(\beta) + 6i\sin^5(\beta)\cos^3(\beta) - 2i\sin^7(\beta)\cos(\beta)\big)\big(5i\sin(\beta)\cos^7(\beta) - 12\sin^2(\beta)\cos^6(\beta)$

$- 33i\sin^3(\beta)\cos^5(\beta) + 40\sin^4(\beta)\cos^4(\beta) + 33i\sin^5(\beta)\cos^3(\beta) - 12\sin^6(\beta)\cos^2(\beta) - 5i\sin^7(\beta)\cos(\beta) + e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta$

$+ e^{-4i\gamma}\big(-6\sin^2(\beta)\cos^6(\beta) - 12i\sin^3(\beta)\cos^5(\beta) + 20\sin^4(\beta)\cos^4(\beta) + 12i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta)\big) + e^{8i\gamma}\big(i\cos^7(\beta$

$+ e^{4i\gamma}\big(\cos^8(\beta) + 2i\sin(\beta)\cos^7(\beta) - 10\sin^2(\beta)\cos^6(\beta) - 10i\sin^3(\beta)\cos^5(\beta) + 10\sin^4(\beta)\cos^4(\beta) + 10i\sin^5(\beta)\cos^3(\beta) - 10\sin^6($

$+ e^{-4i\gamma}\big(i\sin(\beta)\cos^7(\beta) - 7i\sin^3(\beta)\cos^5(\beta) + 7i\sin^5(\beta)\cos^3(\beta) - i\sin^7(\beta)\cos(\beta)\big)\big(4i\sin(\beta)\cos^7(\beta) - 16\sin^2(\beta)\cos^6(\beta)$

$- 34i\sin^3(\beta)\cos^5(\beta) + 32\sin^4(\beta)\cos^4(\beta) + 34i\sin^5(\beta)\cos^3(\beta) - 16\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta$

$+ e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\big) + e^{4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta) - 12i\sin^3(\beta)\cos^5(\beta) + 24\sin^4(\beta)\cos^4(\beta) + 12i\sin^5(\beta)\cos$

$+ e^{-4i\gamma}\big(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 8i\sin^3(\beta)\cos^5(\beta) + 14\sin^4(\beta)\cos^4(\beta) + 8i\sin^5(\beta)\cos^3(\beta) - 8\sin^6(\beta)$

$+ e^{4i\gamma}\big(i\sin(\beta)\cos^7(\beta) - 7i\sin^3(\beta)\cos^5(\beta) + 7i\sin^5(\beta)\cos^3(\beta) - i\sin^7(\beta)\cos(\beta)\big)\big(4i\sin(\beta)\cos^7(\beta) - 16\sin^2(\beta)\cos^6(\beta)$

$- 34i\sin^3(\beta)\cos^5(\beta) + 32\sin^4(\beta)\cos^4(\beta) + 34i\sin^5(\beta)\cos^3(\beta) - 16\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta$

p = 0.10853161262190925

$$\Big(\big(2i\cos^3(\beta)\sin^5(\beta)-2i\cos^5(\beta)\sin^3(\beta)\big)\big(\cos^8(\beta)+8i\sin(\beta)\cos^7(\beta)-20\sin^2(\beta)\cos^6(\beta)$$
$$-24i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+34\sin^4(\beta)\cos^4(\beta)$$
$$+24i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)-8i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$
$$+e^{-4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)$$
$$+e^{4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)\big)$$
$$+\big(-6\sin^2(\beta)\cos^6(\beta)+20\sin^4(\beta)\cos^4(\beta)-6\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)$$
$$-32i\sin^3(\beta)\cos^5(\beta)+30\sin^4(\beta)\cos^4(\beta)+32i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)$$
$$+\sin^8(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)$$
$$+e^{-4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+e^{4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+\big(i\sin(\beta)\cos^7(\beta)-7i\sin^3(\beta)\cos^5(\beta)+7i\sin^5(\beta)\cos^3(\beta)-i\sin^7(\beta)\cos(\beta)\big)\big(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)$$
$$-16\sin^2(\beta)\cos^6(\beta)-26i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)$$
$$+42\sin^4(\beta)\cos^4(\beta)+26i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$
$$+e^{-4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+e^{4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+\big(-10\sin^2(\beta)\cos^6(\beta)+12\sin^4(\beta)\cos^4(\beta)-10\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)$$
$$-34i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(i\cos^3($$
$$+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos$$
$$+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-$$
$$+\big(2i\sin(\beta)\cos^7(\beta)-6i\sin^3(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)$$
$$-28i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)$$
$$+\sin^8(\beta)+e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin$$
$$+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)$$
$$+\big(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4($$
$$+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos$$
$$+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-7\sin^6(\beta)\cos^2(\beta)$$
$$+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)-$$
$$+\big(4i\cos^3(\beta)\sin^5(\beta)-4i\cos^5(\beta)\sin^3(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-18\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos$$
$$+28i\sin^5(\beta)\cos^3(\beta)-18\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)$$
$$+e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^2$$
$$+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)-$$
$$+\big(i\sin(\beta)\cos^7(\beta)-7i\sin^3(\beta)\cos^5(\beta)+7i\sin^5(\beta)\cos^3(\beta)-i\sin^7(\beta)\cos(\beta)\big)\big(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-14\sin^2(\beta)\cos^6(\beta)$$
$$-30i\sin^3(\beta)\cos^5(\beta)+46\sin^4(\beta)\cos^4(\beta)+30i\sin^5(\beta)\cos^3(\beta)-14\sin^6(\beta)\cos^2(\beta)-2i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(-\sin^2$$
$$+e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{-4i\gamma}\big(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^2$$
$$+e^{4i\gamma}\big(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+13i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)\big(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos$$
$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{4i\gamma}\big(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\big)+e^{-4i\gamma}\big(8i\sin$$
$$+e^{-8i\gamma}\big(\cos^8(\beta)+\sin^8(\beta)\big)\big)$$
$$+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)\big(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\co$$
$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{-4i\gamma}\big(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\big)$$
$$+e^{4i\gamma}\big(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8i\,$$
$$+e^{8i\gamma}\big(\cos^8(\beta)+\sin^8(\beta)\big)\big)$$
$$+e^{-4i\gamma}\big(-3\sin^2(\beta)\cos^6(\beta)+10\sin^4(\beta)\cos^4(\beta)-3\sin^6(\beta)\cos^2(\beta)\big)\big(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta$$
$$+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)$$
$$+e^{4i\gamma}\big(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\big)+e^{-8i\gamma}\big(i\cos^7(\beta$$
$$+e^{-4i\gamma}\big(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10\sin$$
$$+e^{4i\gamma}\big(-3\sin^2(\beta)\cos^6(\beta)+10\sin^4(\beta)\cos^4(\beta)-3\sin^6(\beta)\cos^2(\beta)\big)\big(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta)$$
$$+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)$$
$$+e^{-4i\gamma}\big(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\big)+e^{8i\gamma}\big(i\cos^7(\beta$$
$$+e^{4i\gamma}\big(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10\sin$$
$$+e^{-4i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)+14\sin^4(\beta)\cos^4(\beta)-\sin^6(\beta)\cos^2(\beta)\big)\big(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-34i\sin^3(\beta)\cos^5(\beta)$$
$$+32\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)$$
$$+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos$$
$$+e^{-4i\gamma}\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)$$

$p = 0.2707151609562636$

$$\left(2e^{-8i\gamma}\cos^4(\beta)\left(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos^4(\beta)\right.\right.$$

$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)$$

$$+e^{-4i\gamma}\left(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8\right.$$

$$+e^{-8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right)\right)\sin^4(\beta)+\left(-\sin^2(\beta)\cos^6(\beta)+2\sin^4(\beta)\cos^4(\beta)-\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)\right.$$

$$+8i\sin(\beta)\cos^7(\beta)-20\sin^2(\beta)\cos^6(\beta)-24i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)$$

$$+34\sin^4(\beta)\cos^4(\beta)+24i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)-8i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$

$$+e^{-4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)$$

$$+e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\right)$$

$$+\left(2i\sin(\beta)\cos^7(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta)\right.$$

$$+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+30\sin^4(\beta)\cos^4(\beta)$$

$$+32i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$

$$+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)$$

$$+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\right.$$

$$+e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\right.$$

$$+\left(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-26i\sin^3(\beta)\cos\right.$$

$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+42\sin^4(\beta)\cos^4(\beta)+26i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)$$

$$+\sin^8(\beta)+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\right.$$

$$+e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\right.$$

$$+\left(2i\sin(\beta)\cos^7(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos\right.$$

$$-34i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(i\cos^3\right.$$

$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos\right.$$

$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-\right.$$

$$+\left(-2\sin^2(\beta)\cos^6(\beta)+12\sin^4(\beta)\cos^4(\beta)-2\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos\right.$$

$$+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$

$$+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos\right.$$

$$+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)\right.$$

$$+\left(\cos^8(\beta)-2\sin^2(\beta)\cos^6(\beta)+10\sin^4(\beta)\cos^4(\beta)-2\sin^6(\beta)\cos^2(\beta)+\sin^8(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\right.$$

$$-28i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)$$

$$+\sin^8(\beta)+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin\right.$$

$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)-\right.$$

$$+\left(-2\sin^2(\beta)\cos^6(\beta)+4\sin^4(\beta)\cos^4(\beta)-2\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-18\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos\right.$$

$$+38\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-18\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\right.$$

$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos\right.$$

$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)-\right.$$

$$+\left(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-14\sin^2(\beta)\cos^6(\beta)-30i\sin^3(\beta)\cos\right.$$

$$+46\sin^4(\beta)\cos^4(\beta)+30i\sin^5(\beta)\cos^3(\beta)-14\sin^6(\beta)\cos^2(\beta)-2i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\right.$$

$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos\right.$$

$$+e^{4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+13i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\right.$$

$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)\left(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos\right.$$

$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{-4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)$$

$$+e^{4i\gamma}\left(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8i\right.$$

$$+e^{8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right)\right)$$

$$+e^{-4i\gamma}\left(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta)\right.$$

$$+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{4i\gamma}\left(-6\sin^2(\beta)\cos\right.$$

$$+e^{-8i\gamma}\left(i\cos^7(\beta)\sin(\beta)-i\cos(\beta)\sin^7(\beta)\right)+e^{-4i\gamma}\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin\right.$$

$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-6i\sin^3(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)\right.$$

$$-33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)\right.$$

$$+e^{-4i\gamma}\left(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\right)+e^{8i\gamma}\left(i\cos^7(\beta)\right.$$

$$+e^{4i\gamma}\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10\sin^6(\right.$$

$$+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-6i\sin^3(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)\right.$$

$$-34i\sin^3(\beta)\cos^5(\beta)+32\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)\right.$$

$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos\right.$$

$$+e^{-4i\gamma}\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\right.$$

$$+e^{4i\gamma}\left(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\right)\left(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-34i\sin^3(\beta)\cos^5(\beta)+32\sin^4(\beta)\cos^4(\beta)\right.$$

p = 0.0939027856900529

$$
\begin{aligned}
&\Big(\big(2i\cos^3(\beta)\sin^5(\beta)-2i\cos^5(\beta)\sin^3(\beta)\big)\big(\cos^8(\beta)+8i\sin(\beta)\cos^7(\beta)-20\sin^2(\beta)\cos^6(\beta)\\
&-24i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+34\sin^4(\beta)\cos^4(\beta)\\
&+24i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)-8i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)\\
&+e^{-4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)\\
&+e^{4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)\big)\\
&+\big(-6\sin^2(\beta)\cos^6(\beta)+20\sin^4(\beta)\cos^4(\beta)-6\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)\\
&-32i\sin^3(\beta)\cos^5(\beta)+30\sin^4(\beta)\cos^4(\beta)+32i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)\\
&+\sin^8(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)\\
&+e^{-4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\\
&+e^{4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\\
&+\big(i\sin(\beta)\cos^7(\beta)-7i\sin^3(\beta)\cos^5(\beta)+7i\sin^5(\beta)\cos^3(\beta)-i\sin^7(\beta)\cos(\beta)\big)\big(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)\\
&-16\sin^2(\beta)\cos^6(\beta)-26i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)\\
&+42\sin^4(\beta)\cos^4(\beta)+26i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)\\
&+e^{-4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\\
&+e^{4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\\
&+\big(\cos^8(\beta)-6\sin^2(\beta)\cos^6(\beta)+18\sin^4(\beta)\cos^4(\beta)-6\sin^6(\beta)\cos^2(\beta)+\sin^8(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\\
&-34i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(i\cos^3(\\
&+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos\\
&+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-\\
&+\big(i\sin(\beta)\cos^7(\beta)-7i\sin^3(\beta)\cos^5(\beta)+7i\sin^5(\beta)\cos^3(\beta)-i\sin^7(\beta)\cos(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)\\
&-28i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)\\
&+\sin^8(\beta)+e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin\\
&+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)\\
&+\big(i\sin(\beta)\cos^7(\beta)-7i\sin^3(\beta)\cos^5(\beta)+7i\sin^5(\beta)\cos^3(\beta)-i\sin^7(\beta)\cos(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)\\
&-28i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)\\
&+\sin^8(\beta)+e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin\\
&+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)-\\
&+\big(4i\cos^3(\beta)\sin^5(\beta)-4i\cos^5(\beta)\sin^3(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-18\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos\\
&+28i\sin^5(\beta)\cos^3(\beta)-18\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)\\
&+e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos\\
&+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)-\\
&+\big(i\sin(\beta)\cos^7(\beta)-7i\sin^3(\beta)\cos^5(\beta)+7i\sin^5(\beta)\cos^3(\beta)-i\sin^7(\beta)\cos(\beta)\big)\big(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-14\sin^2(\beta)\cos^6(\beta)\\
&-30i\sin^3(\beta)\cos^5(\beta)+46\sin^4(\beta)\cos^4(\beta)+30i\sin^5(\beta)\cos^3(\beta)-14\sin^6(\beta)\cos^2(\beta)-2i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(-\sin^2\\
&+e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{-4i\gamma}\big(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos\\
&+e^{4i\gamma}\big(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+13i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\\
&+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)\big(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos\\
&+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{4i\gamma}\big(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\big)+e^{-4i\gamma}\big(8i\sin\\
&+e^{-8i\gamma}\big(\cos^8(\beta)+\sin^8(\beta)\big)\big)\\
&+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)\big(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos\\
&+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{-4i\gamma}\big(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\big)\\
&+e^{4i\gamma}\big(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8i\\
&+e^{8i\gamma}\big(\cos^8(\beta)+\sin^8(\beta)\big)\big)\\
&+e^{-4i\gamma}\big(-3\sin^2(\beta)\cos^6(\beta)+10\sin^4(\beta)\cos^4(\beta)-3\sin^6(\beta)\cos^2(\beta)\big)\big(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\\
&+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)\\
&+e^{4i\gamma}\big(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\big)+e^{-8i\gamma}\big(i\cos^7(\beta\\
&+e^{-4i\gamma}\big(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10\sin\\
&+e^{4i\gamma}\big(-3\sin^2(\beta)\cos^6(\beta)+10\sin^4(\beta)\cos^4(\beta)-3\sin^6(\beta)\cos^2(\beta)\big)\big(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta)\\
&+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)\\
&+e^{-4i\gamma}\big(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\big)+e^{8i\gamma}\big(i\cos^7(\beta\\
&+e^{4i\gamma}\big(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10\sin^6\\
&+e^{-4i\gamma}\big(-5\sin^2(\beta)\cos^6(\beta)+6\sin^4(\beta)\cos^4(\beta)-5\sin^6(\beta)\cos^2(\beta)\big)\big(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-34i\sin^3(\beta)\cos^5(\beta\\
&+32\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)\\
&+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\\
&+e^{-4i\gamma}\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)
\end{aligned}
$$

p = 0.17893278529612658

44

$$\big(4\cos^4(\beta)\,\big(\cos^8(\beta) + 8i\sin(\beta)\cos^7(\beta) - 20\sin^2(\beta)\cos^6(\beta) - 24i\sin^3(\beta)\cos^5(\beta)$$
$$+ 2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta) + 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta) + 34\sin^4(\beta)\cos^4(\beta)$$
$$+ 24i\sin^5(\beta)\cos^3(\beta) - 20\sin^6(\beta)\cos^2(\beta) - 8i\sin^7(\beta)\cos(\beta) + \sin^8(\beta)$$
$$+ e^{-4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta) - 16i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 16i\sin^5(\beta)\cos^3(\beta) - 4\sin^6(\beta)\cos^2(\beta)\big)$$
$$+ e^{4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta) - 16i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 16i\sin^5(\beta)\cos^3(\beta) - 4\sin^6(\beta)\cos^2(\beta)\big)\big)\sin^4(\beta)$$
$$+ 8\cos^4(\beta)\,\big(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 18\sin^2(\beta)\cos^6(\beta) - 28i\sin^3(\beta)\cos^5(\beta)$$
$$+ 38\sin^4(\beta)\cos^4(\beta) + 28i\sin^5(\beta)\cos^3(\beta) - 18\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + \sin^8(\beta)$$
$$+ e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\big) + e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\big)$$
$$+ e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 4\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 14i\sin^5(\beta)\cos^3(\beta) - 4\sin^6(\beta)\cos^2(\beta)$$
$$+ e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 4\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 14i\sin^5(\beta)\cos^3(\beta) - 4\sin^6(\beta)\cos^2(\beta) -$$
$$+ 2e^{-8i\gamma}\cos^4(\beta)\,\big(-20\sin^2(\beta)\cos^6(\beta) - 32i\sin^3(\beta)\cos^5(\beta) + 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta) + 36\sin^4(\beta)\cos^4(\beta)$$
$$+ 32i\sin^5(\beta)\cos^3(\beta) - 20\sin^6(\beta)\cos^2(\beta) + e^{4i\gamma}\big(-16i\sin^3(\beta)\cos^5(\beta) + 24\sin^4(\beta)\cos^4(\beta) + 16i\sin^5(\beta)\cos^3(\beta)\big)$$
$$+ e^{-4i\gamma}\big(8i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 8i\sin^3(\beta)\cos^5(\beta) + 8\sin^4(\beta)\cos^4(\beta) + 8i\sin^5(\beta)\cos^3(\beta) - 8\sin^6(\beta)\cos^2(\beta) - 8$$
$$+ e^{-8i\gamma}\big(\cos^8(\beta) + \sin^8(\beta)\big)\big)\sin^4(\beta) + 2e^{8i\gamma}\cos^4(\beta)\,\big(-20\sin^2(\beta)\cos^6(\beta) - 32i\sin^3(\beta)\cos^5(\beta)$$
$$+ 2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta) + 36\sin^4(\beta)\cos^4(\beta) + 32i\sin^5(\beta)\cos^3(\beta) - 20\sin^6(\beta)\cos^2(\beta)$$
$$+ e^{-4i\gamma}\big(-16i\sin^3(\beta)\cos^5(\beta) + 24\sin^4(\beta)\cos^4(\beta) + 16i\sin^5(\beta)\cos^3(\beta)\big) + e^{4i\gamma}\big(8i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 8i\sin^3(\beta$$
$$+ e^{8i\gamma}\big(\cos^8(\beta) + \sin^8(\beta)\big)\big)\sin^4(\beta) + \big(16i\cos^3(\beta)\sin^5(\beta) - 16i\cos^5(\beta)\sin^3(\beta)\big)\,\big(\cos^8(\beta) + 6i\sin(\beta)\cos^7(\beta) - 16\sin^2(\beta)\cos^6(\beta$$
$$- 32i\sin^3(\beta)\cos^5(\beta) + 30\sin^4(\beta)\cos^4(\beta) + 32i\sin^5(\beta)\cos^3(\beta) - 16\sin^6(\beta)\cos^2(\beta) - 6i\sin^7(\beta)\cos(\beta) + \sin^8(\beta) + e^{-8i\gamma}\big(i\cos^3($$
$$+ e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\big) + e^{-4i\gamma}\big(i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 11i\sin^3(\beta)\cos^5(\beta) + 20\sin^4(\beta)\cos^4($$
$$+ e^{4i\gamma}\big(i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 11i\sin^3(\beta)\cos^5(\beta) + 20\sin^4(\beta)\cos^4(\beta) + 11i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta) -$$
$$+ \big(-4\sin^2(\beta)\cos^6(\beta) + 8\sin^4(\beta)\cos^4(\beta) - 4\sin^6(\beta)\cos^2(\beta)\big)\,\big(\cos^8(\beta) + 6i\sin(\beta)\cos^7(\beta) - 16\sin^2(\beta)\cos^6(\beta) - 26i\sin^3(\beta)\cos$$
$$+ 2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta) + 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta) + 42\sin^4(\beta)\cos^4(\beta) + 26i\sin^5(\beta)\cos^3(\beta) - 16\sin^6(\beta)\cos^2(\beta) - 6i\sin^7(\beta)\cos(\beta$$
$$+ \sin^8(\beta) + e^{-4i\gamma}\big(i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 15i\sin^3(\beta)\cos^5(\beta) + 12\sin^4(\beta)\cos^4(\beta) + 15i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta$$
$$+ e^{4i\gamma}\big(i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 15i\sin^3(\beta)\cos^5(\beta) + 12\sin^4(\beta)\cos^4(\beta) + 15i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta) -$$
$$+ \big(4i\sin(\beta)\cos^7(\beta) - 12i\sin^3(\beta)\cos^5(\beta) + 12i\sin^5(\beta)\cos^3(\beta) - 4i\sin^7(\beta)\cos(\beta)\big)\,\big(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 12\sin^2(\beta)\cos^6$$
$$- 34i\sin^3(\beta)\cos^5(\beta) + 38\sin^4(\beta)\cos^4(\beta) + 34i\sin^5(\beta)\cos^3(\beta) - 12\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + \sin^8(\beta) + e^{-8i\gamma}\big(i\cos^3($$
$$+ e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\big) + e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 10i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos$$
$$+ e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 10i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 10i\sin^5(\beta)\cos^3(\beta) - 8\sin^6(\beta)\cos^2(\beta) -$$
$$+ \big(-6\sin^2(\beta)\cos^6(\beta) + 4\sin^4(\beta)\cos^4(\beta) - 6\sin^6(\beta)\cos^2(\beta)\big)\,\big(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 15\sin^2(\beta)\cos^6(\beta) - 28i\sin^3(\beta)\cos$$
$$+ 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta) + 44\sin^4(\beta)\cos^4(\beta) + 28i\sin^5(\beta)\cos^3(\beta) - 15\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + \sin^8(\beta)$$
$$+ e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\big) + e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 7\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 10\sin^4(\beta)\cos^2$$
$$+ e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 5\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 14\sin^4(\beta)\cos^4(\beta) + 14i\sin^5(\beta)\cos^3(\beta) - 5\sin^6(\beta)\cos^2(\beta)$$
$$+ \big(-2\sin^2(\beta)\cos^6(\beta) + 12\sin^4(\beta)\cos^4(\beta) - 2\sin^6(\beta)\cos^2(\beta)\big)\,\big(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 15\sin^2(\beta)\cos^6(\beta) - 28i\sin^3(\beta)\,co$$
$$+ 2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta) + 44\sin^4(\beta)\cos^4(\beta) + 28i\sin^5(\beta)\cos^3(\beta) - 15\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + \sin^8(\beta)$$
$$+ e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\big) + e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 7\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 10\sin^4(\beta)\cos^2$$
$$+ e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta) - 5\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 14\sin^4(\beta)\cos^4(\beta) + 14i\sin^5(\beta)\cos^3(\beta) - 5\sin^6(\beta)\cos^2(\beta) -$$
$$+ \big(-4\sin^2(\beta)\cos^6(\beta) + 8\sin^4(\beta)\cos^4(\beta) - 4\sin^6(\beta)\cos^2(\beta)\big)\,\big(\cos^8(\beta) + 2i\sin(\beta)\cos^7(\beta) - 14\sin^2(\beta)\cos^6(\beta) - 30i\sin^3(\beta)\cos$$
$$+ 46\sin^4(\beta)\cos^4(\beta) + 30i\sin^5(\beta)\cos^3(\beta) - 14\sin^6(\beta)\cos^2(\beta) - 2i\sin^7(\beta)\cos(\beta) + \sin^8(\beta) + e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)$$
$$+ e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\big) + e^{-4i\gamma}\big(3i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 13i\sin^3(\beta)\cos^5(\beta) + 12\sin^4(\beta)\cos^2$$
$$+ e^{4i\gamma}\big(3i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 13i\sin^3(\beta)\cos^5(\beta) + 12\sin^4(\beta)\cos^4(\beta) + 13i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta) -$$
$$+ e^{-4i\gamma}\big(8i\cos^3(\beta)\sin^5(\beta) - 8i\cos^5(\beta)\sin^3(\beta)\big)\,\big(5i\sin(\beta)\cos^7(\beta) - 12\sin^2(\beta)\cos^6(\beta) - 33i\sin^3(\beta)\cos^5(\beta) + 40\sin^4(\beta)\cos^4(\beta$$
$$+ 33i\sin^5(\beta)\cos^3(\beta) - 12\sin^6(\beta)\cos^2(\beta) - 5i\sin^7(\beta)\cos(\beta) + e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\big) + e^{4i\gamma}\big(-6\sin^2(\beta)\cos$$
$$+ e^{-8i\gamma}\big(i\cos^7(\beta)\sin(\beta) - i\cos(\beta)\sin^7(\beta)\big) + e^{-4i\gamma}\big(\cos^8(\beta) + 2i\sin(\beta)\cos^7(\beta) - 10\sin^2(\beta)\cos^6(\beta) - 10i\sin^3(\beta)\cos^5(\beta) + 10\,s$$
$$+ e^{4i\gamma}\big(8i\cos^3(\beta)\sin^5(\beta) - 8i\cos^5(\beta)\sin^3(\beta)\big)\,\big(5i\sin(\beta)\cos^7(\beta) - 12\sin^2(\beta)\cos^6(\beta) - 33i\sin^3(\beta)\cos^5(\beta) + 40\sin^4(\beta)\cos^4(\beta)$$
$$+ 33i\sin^5(\beta)\cos^3(\beta) - 12\sin^6(\beta)\cos^2(\beta) - 5i\sin^7(\beta)\cos(\beta) + e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\big) + e^{-4i\gamma}\big(-6\sin^2(\beta)$$
$$+ e^{8i\gamma}\big(i\cos^7(\beta)\sin(\beta) - i\cos(\beta)\sin^7(\beta)\big) + e^{4i\gamma}\big(\cos^8(\beta) + 2i\sin(\beta)\cos^7(\beta) - 10\sin^2(\beta)\cos^6(\beta) - 10i\sin^3(\beta)\cos^5(\beta) + 10\sin^4$$
$$+ e^{-4i\gamma}\big(8i\cos^3(\beta)\sin^5(\beta) - 8i\cos^5(\beta)\sin^3(\beta)\big)\,\big(4i\sin(\beta)\cos^7(\beta) - 16\sin^2(\beta)\cos^6(\beta) - 34i\sin^3(\beta)\cos^5(\beta) + 32\sin^4(\beta)\cos^4(\beta$$
$$+ 34i\sin^5(\beta)\cos^3(\beta) - 16\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\big) + e^{8i\gamma}\big(i\cos^3(\beta)\sin^5$$
$$+ e^{4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta) - 12i\sin^3(\beta)\cos^5(\beta) + 24\sin^4(\beta)\cos^4(\beta) + 12i\sin^5(\beta)\cos^3(\beta) - 4\sin^6(\beta)\cos^2(\beta)\big) + e^{-4i\gamma}\big(\cos^8(\beta)$$
$$+ e^{4i\gamma}\big(4i\sin(\beta)\cos^7(\beta) - 4i\sin^3(\beta)\cos^5(\beta) + 4i\sin^5(\beta)\cos^3(\beta) - 4i\sin^7(\beta)\cos(\beta)\big)\,\big(4i\sin(\beta)\cos^7(\beta) - 16\sin^2(\beta)\cos^6(\beta)$$
$$- 34i\sin^3(\beta)\cos^5(\beta) + 32\sin^4(\beta)\cos^4(\beta) + 34i\sin^5(\beta)\cos^3(\beta) - 16\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta$$
$$+ e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\big) + e^{-4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta) - 12i\sin^3(\beta)\cos^5(\beta) + 24\sin^4(\beta)\cos^4(\beta) + 12i\sin^5(\beta$$
$$+ e^{4i\gamma}\big(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 8i\sin^3(\beta)\cos^5(\beta) + 14\sin^4(\beta)\cos^4(\beta) + 8i\sin^5(\beta)\cos^3(\beta) - 8\sin^6(\beta)\cos$$
$$+ e^{-4i\gamma}\big(-2\sin^2(\beta)\cos^6(\beta) + 4\sin^4(\beta)\cos^4(\beta) - 2\sin^6(\beta)\cos^2(\beta)\big)\,\big(4i\sin(\beta)\cos^7(\beta) - 16\sin^2(\beta)\cos^6(\beta) - 28i\sin^3(\beta)\cos^5(\beta$$

$p = 0.311428469660244$

$p = 0.311428469660244$

$\left(8e^{-4i\gamma}\cos^4(\beta)\left(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)\right.\right.$

$+\,2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)$

$+\,e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)$

$+\,e^{-4i\gamma}\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+6\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\right.$

$+\,8e^{4i\gamma}\cos^4(\beta)\left(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)\right.$

$+\,2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)$

$+\,e^{-4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)$

$+\,e^{4i\gamma}\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+6\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\right.$

$+\left(-2\sin^2(\beta)\cos^6(\beta)-2\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+8i\sin(\beta)\cos^7(\beta)-20\sin^2(\beta)\cos^6(\beta)\right.$

$-\,24i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+34\sin^4(\beta)\cos^4(\beta)$

$+\,24i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)-8i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$

$+\,e^{-4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)$

$+\,e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\right)$

$+\left(4i\sin(\beta)\cos^7(\beta)-12i\sin^3(\beta)\cos^5(\beta)+12i\sin^5(\beta)\cos^3(\beta)-4i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^5\right.$

$-\,32i\sin^3(\beta)\cos^5(\beta)+30\sin^4(\beta)\cos^4(\beta)+32i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\right.$

$+\,e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)\right.$

$+\,e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\right.$

$+\left(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-26i\sin^3(\beta)\cos\right.$

$+\,2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+42\sin^4(\beta)\cos^4(\beta)+26i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)$

$+\,\sin^8(\beta)+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\right.$

$+\,e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$

$+\left(16i\cos^3(\beta)\sin^5(\beta)-16i\cos^5(\beta)\sin^3(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-34i\sin^3(\beta)\cos^5(\beta)\right.$

$+\,38\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\right.$

$+\,e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos\right.$

$+\,e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-$

$+\left(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos\right.$

$+\,2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$

$+\,e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4\right.$

$+\,e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)$

$+\left(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos\right.$

$+\,2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$

$+\,e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4\right.$

$+\,e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)-$

$+\left(\cos^8(\beta)+6\sin^4(\beta)\cos^4(\beta)+\sin^8(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-18\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos^4\right.$

$+\,28i\sin^5(\beta)\cos^3(\beta)-18\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)$

$+\,e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos\right.$

$+\,e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)-$

$+\left(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-14\sin^2(\beta)\cos^6(\beta)-30i\sin^3(\beta)\cos\right.$

$+\,46\sin^4(\beta)\cos^4(\beta)+30i\sin^5(\beta)\cos^3(\beta)-14\sin^6(\beta)\cos^2(\beta)-2i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\right.$

$+\,e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4\right.$

$+\,e^{4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+13i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$

$+\,e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)\left(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos\right.$

$+\,32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)+e^{-4i\gamma}\left(8i\sin\right.$

$+\,e^{-8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right)\big)$

$+\,e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)\left(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos\right.$

$+\,32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{-4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)$

$+\,e^{4i\gamma}\left(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8i\sin\right.$

$+\,e^{8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right)\big)$

$+\,e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-6i\sin^3(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)\right.$

$-\,33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)\right.$

$+\,e^{4i\gamma}\left(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\right)+e^{-8i\gamma}\left(i\cos^7(\beta)\right.$

$+\,e^{-4i\gamma}\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10\sin\right.$

$+\,e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-6i\sin^3(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)\right.$

$-\,33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta\right.$

p = 0.12120384621725261

$$
\begin{aligned}
&\left(\left(i\sin(\beta)\cos^7(\beta) - i\sin^3(\beta)\cos^5(\beta) + i\sin^5(\beta)\cos^3(\beta) - i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta) + 8i\sin(\beta)\cos^7(\beta)\right.\right. \\
&- 20\sin^2(\beta)\cos^6(\beta) - 24i\sin^3(\beta)\cos^5(\beta) + 2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta) + 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta) \\
&+ 34\sin^4(\beta)\cos^4(\beta) + 24i\sin^5(\beta)\cos^3(\beta) - 20\sin^6(\beta)\cos^2(\beta) - 8i\sin^7(\beta)\cos(\beta) + \sin^8(\beta) \\
&+ e^{-4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta) - 16i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 16i\sin^5(\beta)\cos^3(\beta) - 4\sin^6(\beta)\cos^2(\beta)\right) \\
&+ e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta) - 16i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 16i\sin^5(\beta)\cos^3(\beta) - 4\sin^6(\beta)\cos^2(\beta)\right)\right) \\
&+ \left(\cos^8(\beta) - 10\sin^2(\beta)\cos^6(\beta) + 10\sin^4(\beta)\cos^4(\beta) - 10\sin^6(\beta)\cos^2(\beta) + \sin^8(\beta)\right)\left(\cos^8(\beta)\right. \\
&+ 6i\sin(\beta)\cos^7(\beta) - 16\sin^2(\beta)\cos^6(\beta) - 32i\sin^3(\beta)\cos^5(\beta) + 30\sin^4(\beta)\cos^4(\beta) \\
&+ 32i\sin^5(\beta)\cos^3(\beta) - 16\sin^6(\beta)\cos^2(\beta) - 6i\sin^7(\beta)\cos(\beta) + \sin^8(\beta) \\
&+ e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\right) + e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\right) \\
&+ e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 11i\sin^3(\beta)\cos^5(\beta) + 20\sin^4(\beta)\cos^4(\beta) + 11i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta) - \cdots\right. \\
&+ e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 11i\sin^3(\beta)\cos^5(\beta) + 20\sin^4(\beta)\cos^4(\beta) + 11i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta) - \cdots\right. \\
&+ \left(2i\sin(\beta)\cos^7(\beta) - 6i\sin^3(\beta)\cos^5(\beta) + 6i\sin^5(\beta)\cos^3(\beta) - 2i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta) + 6i\sin(\beta)\cos^7(\beta)\right. \\
&- 16\sin^2(\beta)\cos^6(\beta) - 26i\sin^3(\beta)\cos^5(\beta) + 2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta) + 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta) + 42\sin^4(\beta)\cos^4(\beta) \\
&+ 26i\sin^5(\beta)\cos^3(\beta) - 16\sin^6(\beta)\cos^2(\beta) - 6i\sin^7(\beta)\cos(\beta) + \sin^8(\beta) + e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 15i\sin^3(\beta)\cdots\right. \\
&+ e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 15i\sin^3(\beta)\cos^5(\beta) + 12\sin^4(\beta)\cos^4(\beta) + 15i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta) - \cdots\right. \\
&+ \left(-6\sin^2(\beta)\cos^6(\beta) + 20\sin^4(\beta)\cos^4(\beta) - 6\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 12\sin^2(\beta)\cos^6(\beta) - 34i\sin^3(\beta)\cos\cdots\right. \\
&+ 38\sin^4(\beta)\cos^4(\beta) + 34i\sin^5(\beta)\cos^3(\beta) - 12\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + \sin^8(\beta) + e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\cdots\right. \\
&+ e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\right) + e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 10i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos\cdots\right. \\
&+ e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 10i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 10i\sin^5(\beta)\cos^3(\beta) - 8\sin^6(\beta)\cos^2(\beta) - \cdots\right. \\
&+ \left(i\sin(\beta)\cos^7(\beta) - 7i\sin^3(\beta)\cos^5(\beta) + 7i\sin^5(\beta)\cos^3(\beta) - i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 15\sin^2(\beta)\cos^6(\beta)\right. \\
&- 28i\sin^3(\beta)\cos^5(\beta) + 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta) + 44\sin^4(\beta)\cos^4(\beta) + 28i\sin^5(\beta)\cos^3(\beta) - 15\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) \\
&+ \sin^8(\beta) + e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\right) + e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta) - 7\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 10\sin\cdots\right. \\
&+ e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta) - 5\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 14\sin^4(\beta)\cos^4(\beta) + 14i\sin^5(\beta)\cos^3(\beta) - 5\sin^6(\beta)\cos^2(\beta) - \cdots\right. \\
&+ \left(i\sin(\beta)\cos^7(\beta) - 7i\sin^3(\beta)\cos^5(\beta) + 7i\sin^5(\beta)\cos^3(\beta) - i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 15\sin^2(\beta)\cos^6(\beta)\right. \\
&- 28i\sin^3(\beta)\cos^5(\beta) + 2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta) + 44\sin^4(\beta)\cos^4(\beta) + 28i\sin^5(\beta)\cos^3(\beta) - 15\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) \\
&+ \sin^8(\beta) + e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\right) + e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta) - 7\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 10\sin\cdots\right. \\
&+ e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta) - 5\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 14\sin^4(\beta)\cos^4(\beta) + 14i\sin^5(\beta)\cos^3(\beta) - 5\sin^6(\beta)\cos^2(\beta) - \cdots\right. \\
&+ \left(i\sin(\beta)\cos^7(\beta) - 3i\sin^3(\beta)\cos^5(\beta) + 3i\sin^5(\beta)\cos^3(\beta) - i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 18\sin^2(\beta)\cos^6(\beta)\right. \\
&- 28i\sin^3(\beta)\cos^5(\beta) + 38\sin^4(\beta)\cos^4(\beta) + 28i\sin^5(\beta)\cos^3(\beta) - 18\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + \sin^8(\beta) + e^{-8i\gamma}\left(-\sin^2\cdots\right. \\
&+ e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\right) + e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta) - 4\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4\cdots\right. \\
&+ e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta) - 4\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 14i\sin^5(\beta)\cos^3(\beta) - 4\sin^6(\beta)\cos^2(\beta) - \cdots\right. \\
&+ \left(8i\cos^3(\beta)\sin^5(\beta) - 8i\cos^5(\beta)\sin^3(\beta)\right)\left(\cos^8(\beta) + 2i\sin(\beta)\cos^7(\beta) - 14\sin^2(\beta)\cos^6(\beta) - 30i\sin^3(\beta)\cos^5(\beta) + 46\sin^4(\beta)\cos\cdots\right. \\
&+ 30i\sin^5(\beta)\cos^3(\beta) - 14\sin^6(\beta)\cos^2(\beta) - 2i\sin^7(\beta)\cos(\beta) + \sin^8(\beta) + e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\right) \\
&+ e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\right) + e^{-4i\gamma}\left(3i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 13i\sin^3(\beta)\cos^5(\beta) + 12\sin^4(\beta)\cos^4\cdots\right. \\
&+ e^{4i\gamma}\left(3i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 13i\sin^3(\beta)\cos^5(\beta) + 12\sin^4(\beta)\cos^4(\beta) + 13i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta) - \cdots\right. \\
&+ e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\right)\left(-20\sin^2(\beta)\cos^6(\beta) - 32i\sin^3(\beta)\cos^5(\beta) + 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta) + 36\sin^4(\beta)\cos\cdots\right. \\
&+ 32i\sin^5(\beta)\cos^3(\beta) - 20\sin^6(\beta)\cos^2(\beta) + e^{4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta) + 24\sin^4(\beta)\cos^4(\beta) + 16i\sin^5(\beta)\cos^3(\beta)\right) + e^{-4i\gamma}\left(8i\sin\cdots\right. \\
&+ e^{-8i\gamma}\left(\cos^8(\beta) + \sin^8(\beta)\right)\big) \\
&+ e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\right)\left(-20\sin^2(\beta)\cos^6(\beta) - 32i\sin^3(\beta)\cos^5(\beta) + 2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta) + 36\sin^4(\beta)\cos\cdots\right. \\
&+ 32i\sin^5(\beta)\cos^3(\beta) - 20\sin^6(\beta)\cos^2(\beta) + e^{-4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta) + 24\sin^4(\beta)\cos^4(\beta) + 16i\sin^5(\beta)\cos^3(\beta)\right) \\
&+ e^{4i\gamma}\left(8i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 8i\sin^3(\beta)\cos^5(\beta) + 8\sin^4(\beta)\cos^4(\beta) + 8i\sin^5(\beta)\cos^3(\beta) - 8\sin^6(\beta)\cos^2(\beta) - 8i\cdots\right. \\
&+ e^{8i\gamma}\left(\cos^8(\beta) + \sin^8(\beta)\right)\big) \\
&+ e^{-4i\gamma}\left(-3\sin^2(\beta)\cos^6(\beta) + 10\sin^4(\beta)\cos^4(\beta) - 3\sin^6(\beta)\cos^2(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta) - 12\sin^2(\beta)\cos^6(\beta) - 33i\sin^3(\beta)\cos^5(\cdots\right. \\
&+ 40\sin^4(\beta)\cos^4(\beta) + 33i\sin^5(\beta)\cos^3(\beta) - 12\sin^6(\beta)\cos^2(\beta) - 5i\sin^7(\beta)\cos(\beta) + e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\right) \\
&+ e^{4i\gamma}\left(-6\sin^2(\beta)\cos^6(\beta) - 12i\sin^3(\beta)\cos^5(\beta) + 20\sin^4(\beta)\cos^4(\beta) + 12i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta)\right) + e^{-8i\gamma}\left(i\cos^7(\beta\cdots\right. \\
&+ e^{-4i\gamma}\left(\cos^8(\beta) + 2i\sin(\beta)\cos^7(\beta) - 10\sin^2(\beta)\cos^6(\beta) - 10i\sin^3(\beta)\cos^5(\beta) + 10\sin^4(\beta)\cos^4(\beta) + 10i\sin^5(\beta)\cos^3(\beta) - 10\sin\cdots\right. \\
&+ e^{4i\gamma}\left(-3\sin^2(\beta)\cos^6(\beta) + 10\sin^4(\beta)\cos^4(\beta) - 3\sin^6(\beta)\cos^2(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta) - 12\sin^2(\beta)\cos^6(\beta) - 33i\sin^3(\beta)\cos^5(\beta)\cdots\right. \\
&+ 40\sin^4(\beta)\cos^4(\beta) + 33i\sin^5(\beta)\cos^3(\beta) - 12\sin^6(\beta)\cos^2(\beta) - 5i\sin^7(\beta)\cos(\beta) + e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\right) \\
&+ e^{-4i\gamma}\left(-6\sin^2(\beta)\cos^6(\beta) - 12i\sin^3(\beta)\cos^5(\beta) + 20\sin^4(\beta)\cos^4(\beta) + 12i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta)\right) + e^{8i\gamma}\left(i\cos^7(\beta\cdots\right. \\
&+ e^{4i\gamma}\left(\cos^8(\beta) + 2i\sin(\beta)\cos^7(\beta) - 10\sin^2(\beta)\cos^6(\beta) - 10i\sin^3(\beta)\cos^5(\beta) + 10\sin^4(\beta)\cos^4(\beta) + 10i\sin^5(\beta)\cos^3(\beta) - 10\sin^6(\cdots\right. \\
&+ e^{-4i\gamma}\left(-3\sin^2(\beta)\cos^6(\beta) + 10\sin^4(\beta)\cos^4(\beta) - 3\sin^6(\beta)\cos^2(\beta)\right)\left(4i\sin(\beta)\cos^7(\beta) - 16\sin^2(\beta)\cos^6(\beta) - 34i\sin^3(\beta)\cos^5(\cdots\right. \\
&+ 32\sin^4(\beta)\cos^4(\beta) + 34i\sin^5(\beta)\cos^3(\beta) - 16\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\right) \\
&+ e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\right) + e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta) - 12i\sin^3(\beta)\cos^5(\beta) + 24\sin^4(\beta)\cos^4(\beta) + 12i\sin^5(\beta)\cdots\right. \\
&+ e^{-4i\gamma}\left(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 8i\sin^3(\beta)\cos^5(\beta) + 14\sin^4(\beta)\cos^4(\beta) + 8i\sin^5(\beta)\cos^3(\beta) - 8\sin^6(\beta)\cdots\right.
\end{aligned}
$$

p = 0.3200767897594818

$$\left(\left(2i\cos^3(\beta)\sin^5(\beta)-2i\cos^5(\beta)\sin^3(\beta)\right)\left(\cos^8(\beta)+8i\sin(\beta)\cos^7(\beta)-20\sin^2(\beta)\cos^6(\beta)\right.\right.$$
$$-24i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+34\sin^4(\beta)\cos^4(\beta)$$
$$+24i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)-8i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$
$$+e^{-4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)$$
$$+e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\right)$$
$$+\left(-6\sin^2(\beta)\cos^6(\beta)+20\sin^4(\beta)\cos^4(\beta)-6\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)\right.$$
$$-32i\sin^3(\beta)\cos^5(\beta)+30\sin^4(\beta)\cos^4(\beta)+32i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)$$
$$+\sin^8(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)$$
$$+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\right.$$
$$+e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\right.$$
$$+\left(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\right)\left(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)\right.$$
$$-26i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+42\sin^4(\beta)\cos^4(\beta)$$
$$+26i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$
$$+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\right.$$
$$+e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\right.$$
$$+\left(-6\sin^2(\beta)\cos^6(\beta)+20\sin^4(\beta)\cos^4(\beta)-6\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-34i\sin^3(\beta)\cos\right.$$
$$+38\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\right.$$
$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos\right.$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-\right.$$
$$+\left(2i\sin(\beta)\cos^7(\beta)-6i\sin^3(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)\right.$$
$$-28i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)$$
$$+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin\right.$$
$$+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)\right.$$
$$+\left(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta\right.$$
$$+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos\right.$$
$$+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-7\sin^6(\beta)\cos^2(\beta)\right.$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)-\right.$$
$$+\left(i\sin(\beta)\cos^7(\beta)-3i\sin^3(\beta)\cos^5(\beta)+3i\sin^5(\beta)\cos^3(\beta)-i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-18\sin^2(\beta)\cos^6(\beta)\right.$$
$$-28i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-18\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2\right.$$
$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos\right.$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)-\right.$$
$$+\left(2i\sin(\beta)\cos^7(\beta)-6i\sin^3(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-14\sin^2(\beta)\cos^6(\beta\right.$$
$$-30i\sin^3(\beta)\cos^5(\beta)+46\sin^4(\beta)\cos^4(\beta)+30i\sin^5(\beta)\cos^3(\beta)-14\sin^6(\beta)\cos^2(\beta)-2i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2\right.$$
$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos\right.$$
$$+e^{4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+13i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\right.$$
$$+e^{-8i\gamma}\left(i\cos^7(\beta)\sin(\beta)-i\cos(\beta)\sin^7(\beta)\right)\left(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos^4\right.$$
$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)+e^{-4i\gamma}\left(8i\sin\right.$$
$$+e^{-8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right))$$
$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)\left(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos\right.$$
$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{-4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)$$
$$+e^{4i\gamma}\left(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8i\right.$$
$$+e^{8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right))$$
$$+e^{-4i\gamma}\left(\cos^8(\beta)-7\sin^2(\beta)\cos^6(\beta)-7\sin^6(\beta)\cos^2(\beta)+\sin^8(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta)\right.$$
$$+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)$$
$$+e^{4i\gamma}\left(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\right)+e^{-8i\gamma}\left(i\cos^7(\beta\right.$$
$$+e^{-4i\gamma}\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10\sin\right.$$
$$+e^{4i\gamma}\left(-3\sin^2(\beta)\cos^6(\beta)+10\sin^4(\beta)\cos^4(\beta)-3\sin^6(\beta)\cos^2(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta)\right.$$
$$+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)$$
$$+e^{-4i\gamma}\left(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\right)+e^{8i\gamma}\left(i\cos^7(\beta\right.$$
$$+e^{4i\gamma}\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10\sin^6\right.$$
$$+e^{-4i\gamma}\left(-3\sin^2(\beta)\cos^6(\beta)+10\sin^4(\beta)\cos^4(\beta)-3\sin^6(\beta)\cos^2(\beta)\right)\left(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-34i\sin^3(\beta)\cos^5(\beta\right.$$
$$+32\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)$$
$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos\right.$$
$$+e^{-4i\gamma}\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\right.$$

p = 0.20110445623132991

$$\big(2e^{8i\gamma}\cos^4(\beta)\big(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)$$

$$+36\sin^4(\beta)\cos^4(\beta)+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)$$

$$+e^{-4i\gamma}\big(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\big)$$

$$+e^{4i\gamma}\big(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8i$$

$$+e^{8i\gamma}\big(\cos^8(\beta)+\sin^8(\beta)\big)\big)\sin^4(\beta)+\big(-\sin^2(\beta)\cos^6(\beta)+2\sin^4(\beta)\cos^4(\beta)-\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta)$$

$$+8i\sin(\beta)\cos^7(\beta)-20\sin^2(\beta)\cos^6(\beta)-24i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)$$

$$+34\sin^4(\beta)\cos^4(\beta)+24i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)-8i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$

$$+e^{-4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)$$

$$+e^{4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)\big)$$

$$+\big(2i\sin(\beta)\cos^7(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\big)\big(\cos^8(\beta)$$

$$+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+30\sin^4(\beta)\cos^4(\beta)+32i\sin^5(\beta)\cos^3(\beta)$$

$$-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)$$

$$+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{-4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4($$

$$+e^{4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$

$$+\big(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-26i\sin^3(\beta)\cos$$

$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+42\sin^4(\beta)\cos^4(\beta)+26i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)$$

$$+\sin^8(\beta)+e^{-4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)$$

$$+e^{4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$

$$+\big(2i\sin(\beta)\cos^7(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^5$$

$$-34i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)$$

$$+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos$$

$$+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-$$

$$+\big(\cos^8(\beta)-2\sin^2(\beta)\cos^6(\beta)+10\sin^4(\beta)\cos^4(\beta)-2\sin^6(\beta)\cos^2(\beta)+\sin^8(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta$$

$$-28i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)$$

$$+\sin^8(\beta)+e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin$$

$$+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)$$

$$+\big(-2\sin^2(\beta)\cos^6(\beta)+12\sin^4(\beta)\cos^4(\beta)-2\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos$$

$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$

$$+e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^2$$

$$+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)-$$

$$+\big(-2\sin^2(\beta)\cos^6(\beta)+4\sin^4(\beta)\cos^4(\beta)-2\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-18\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos$$

$$+38\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-18\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)$$

$$+e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^2$$

$$+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)-$$

$$+\big(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-14\sin^2(\beta)\cos^6(\beta)-30i\sin^3(\beta)\cos$$

$$+46\sin^4(\beta)\cos^4(\beta)+30i\sin^5(\beta)\cos^3(\beta)-14\sin^6(\beta)\cos^2(\beta)-2i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)$$

$$+e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{-4i\gamma}\big(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^2$$

$$+e^{4i\gamma}\big(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+13i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$

$$+e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)\big(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos$$

$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{4i\gamma}\big(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\big)+e^{-4i\gamma}\big(8i\sin$$

$$+e^{-8i\gamma}\big(\cos^8(\beta)+\sin^8(\beta)\big)\big)\big)$$

$$+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-6i\sin^3(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\big)\big(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)$$

$$-33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)$$

$$+e^{4i\gamma}\big(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\big)+e^{-8i\gamma}\big(i\cos^7(\beta$$

$$+e^{-4i\gamma}\big(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10\sin$$

$$+e^{4i\gamma}\big(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\big)\big(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta)$$

$$+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{-4i\gamma}\big(-6\sin^2(\beta)$$

$$+e^{8i\gamma}\big(i\cos^7(\beta)\sin(\beta)-i\cos(\beta)\sin^7(\beta)\big)+e^{4i\gamma}\big(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4$$

$$+e^{-4i\gamma}\big(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\big)\big(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-34i\sin^3(\beta)\cos^5(\beta)+32\sin^4(\beta)\cos^4(\beta$$

$$+34i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5$$

$$+e^{4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)+e^{-4i\gamma}\big(\cos^8(\beta)$$

$$+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-6i\sin^3(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\big)\big(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)$$

$$-34i\sin^3(\beta)\cos^5(\beta)+32\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)$$

$$+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{-4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)$$

p = 0.09390278569005299

$$\big(2e^{-8i\gamma}\cos^4(\beta)\big(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos^4(\beta)$$

$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{4i\gamma}\big(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\big)$$

$$+e^{-4i\gamma}\big(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8\ldots$$

$$+e^{-8i\gamma}\big(\cos^8(\beta)+\sin^8(\beta)\big)\big)\sin^4(\beta)+2e^{8i\gamma}\cos^4(\beta)\big(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)$$

$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos^4(\beta)+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)$$

$$+e^{-4i\gamma}\big(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\big)$$

$$+e^{4i\gamma}\big(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8i\ldots$$

$$+e^{8i\gamma}\big(\cos^8(\beta)+\sin^8(\beta)\big)\big)\sin^4(\beta)+\big(-2\sin^2(\beta)\cos^6(\beta)-2\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta)+8i\sin(\beta)\cos^7(\beta)$$

$$-20\sin^2(\beta)\cos^6(\beta)-24i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)$$

$$+34\sin^4(\beta)\cos^4(\beta)+24i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)-8i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$

$$+e^{-4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)$$

$$+e^{4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)\big)$$

$$+\big(4i\sin(\beta)\cos^7(\beta)-12i\sin^3(\beta)\cos^5(\beta)+12i\sin^5(\beta)\cos^3(\beta)-4i\sin^7(\beta)\cos(\beta)\big)\big(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)$$

$$-16\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+30\sin^4(\beta)\cos^4(\beta)+32i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)$$

$$+\sin^8(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{-4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\ldots$$

$$+e^{4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\ldots$$

$$+\big(\cos^8(\beta)-2\sin^2(\beta)\cos^6(\beta)+10\sin^4(\beta)\cos^4(\beta)-2\sin^6(\beta)\cos^2(\beta)+\sin^8(\beta)\big)\big(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)$$

$$-26i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+42\sin^4(\beta)\cos^4(\beta)+26i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2\ldots$$

$$-6i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\ldots$$

$$+e^{4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\ldots$$

$$+\big(2i\sin(\beta)\cos^7(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos\ldots$$

$$-34i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(i\cos^3\ldots$$

$$+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos\ldots$$

$$+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-\ldots$$

$$+\big(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos\ldots$$

$$+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$

$$+e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4\ldots$$

$$+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)\ldots$$

$$+\big(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos\ldots$$

$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$

$$+e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4\ldots$$

$$+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)-\ldots$$

$$+\big(-2\sin^2(\beta)\cos^6(\beta)+4\sin^4(\beta)\cos^4(\beta)-2\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-18\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos\ldots$$

$$+38\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-18\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\ldots$$

$$+e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos\ldots$$

$$+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)-\ldots$$

$$+\big(-2\sin^2(\beta)\cos^6(\beta)+12\sin^4(\beta)\cos^4(\beta)-2\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-14\sin^2(\beta)\cos^6(\beta)-30i\sin^3(\beta)\cos\ldots$$

$$+46\sin^4(\beta)\cos^4(\beta)+30i\sin^5(\beta)\cos^3(\beta)-14\sin^6(\beta)\cos^2(\beta)-2i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\ldots$$

$$+e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{-4i\gamma}\big(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos\ldots$$

$$+e^{4i\gamma}\big(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+13i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\ldots$$

$$+e^{-4i\gamma}\big(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\big)\big(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta\ldots$$

$$+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{4i\gamma}\big(-6\sin^2(\beta)\cos\ldots$$

$$+e^{-8i\gamma}\big(i\cos^7(\beta)\sin(\beta)-i\cos(\beta)\sin^7(\beta)\big)+e^{-4i\gamma}\big(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\,s\ldots$$

$$+e^{4i\gamma}\big(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\big)\big(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta\ldots$$

$$+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{-4i\gamma}\big(-6\sin^2(\beta)\ldots$$

$$+e^{8i\gamma}\big(i\cos^7(\beta)\sin(\beta)-i\cos(\beta)\sin^7(\beta)\big)+e^{4i\gamma}\big(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4\ldots$$

$$+e^{-4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-7i\sin^3(\beta)\cos^5(\beta)+7i\sin^5(\beta)\cos^3(\beta)-i\sin^7(\beta)\cos(\beta)\big)\big(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)$$

$$-34i\sin^3(\beta)\cos^5(\beta)+32\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\ldots$$

$$+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos\ldots$$

$$+e^{-4i\gamma}\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\ldots$$

$$+e^{4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-7i\sin^3(\beta)\cos^5(\beta)+7i\sin^5(\beta)\cos^3(\beta)-i\sin^7(\beta)\cos(\beta)\big)\big(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)$$

$$-34i\sin^3(\beta)\cos^5(\beta)+32\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\ldots$$

$$+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{-4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos\ldots$$

$$+e^{4i\gamma}\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos\ldots$$

p = 0.15018888599129698

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$$
\begin{aligned}
&\Big(\big(2i\cos^3(\beta)\sin^5(\beta)-2i\cos^5(\beta)\sin^3(\beta)\big)\big(\cos^8(\beta)+8i\sin(\beta)\cos^7(\beta)-20\sin^2(\beta)\cos^6(\beta)\\
&-24i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+34\sin^4(\beta)\cos^4(\beta)\\
&+24i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)-8i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)\\
&+e^{-4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)\\
&+e^{4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)\big)\\
&+\big(-6\sin^2(\beta)\cos^6(\beta)+20\sin^4(\beta)\cos^4(\beta)-6\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)\\
&-32i\sin^3(\beta)\cos^5(\beta)+30\sin^4(\beta)\cos^4(\beta)+32i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)\\
&+\sin^8(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)\\
&+e^{-4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\\
&+e^{4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\\
&+\big(i\sin(\beta)\cos^7(\beta)-7i\sin^3(\beta)\cos^5(\beta)+7i\sin^5(\beta)\cos^3(\beta)-i\sin^7(\beta)\cos(\beta)\big)\big(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)\\
&-16\sin^2(\beta)\cos^6(\beta)-26i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)\\
&+42\sin^4(\beta)\cos^4(\beta)+26i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)\\
&+e^{-4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\\
&+e^{4i\gamma}\big(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\\
&+\big(-10\sin^2(\beta)\cos^6(\beta)+12\sin^4(\beta)\cos^4(\beta)-10\sin^6(\beta)\cos^2(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)\\
&-34i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(i\cos^3(\\
&+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\\
&+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-\\
&+\big(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\\
&+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\\
&+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-7\sin^6(\beta)\cos^2(\beta)-\\
&+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)-\\
&+\big(2i\sin(\beta)\cos^7(\beta)-6i\sin^3(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)\\
&-28i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)\\
&+\sin^8(\beta)+e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin\\
&+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)-\\
&+\big(4i\cos^3(\beta)\sin^5(\beta)-4i\cos^5(\beta)\sin^3(\beta)\big)\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-18\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos\\
&+28i\sin^5(\beta)\cos^3(\beta)-18\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)\\
&+e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{-4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos\\
&+e^{4i\gamma}\big(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)-\\
&+\big(i\sin(\beta)\cos^7(\beta)-7i\sin^3(\beta)\cos^5(\beta)+7i\sin^5(\beta)\cos^3(\beta)-i\sin^7(\beta)\cos(\beta)\big)\big(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-14\sin^2(\beta)\cos^6(\beta)\\
&-30i\sin^3(\beta)\cos^5(\beta)+46\sin^4(\beta)\cos^4(\beta)+30i\sin^5(\beta)\cos^3(\beta)-14\sin^6(\beta)\cos^2(\beta)-2i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\big(-\sin^2\\
&+e^{8i\gamma}\big(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\big)+e^{-4i\gamma}\big(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos\\
&+e^{4i\gamma}\big(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+13i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\\
&+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)\big(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos\\
&+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{4i\gamma}\big(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\big)+e^{-4i\gamma}\big(8i\sin\\
&+e^{-8i\gamma}\big(\cos^8(\beta)+\sin^8(\beta)\big)\big)\\
&+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)\big(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos\\
&+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{-4i\gamma}\big(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\big)\\
&+e^{4i\gamma}\big(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8i\sin\\
&+e^{8i\gamma}\big(\cos^8(\beta)+\sin^8(\beta)\big)\big)\\
&+e^{-4i\gamma}\big(-3\sin^2(\beta)\cos^6(\beta)+10\sin^4(\beta)\cos^4(\beta)-3\sin^6(\beta)\cos^2(\beta)\big)\big(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta\\
&+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)\\
&+e^{4i\gamma}\big(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\big)+e^{-8i\gamma}\big(i\cos^7(\beta\\
&+e^{-4i\gamma}\big(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10\sin\\
&+e^{4i\gamma}\big(-3\sin^2(\beta)\cos^6(\beta)+10\sin^4(\beta)\cos^4(\beta)-3\sin^6(\beta)\cos^2(\beta)\big)\big(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta\\
&+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)\\
&+e^{-4i\gamma}\big(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\big)+e^{8i\gamma}\big(i\cos^7(\beta\\
&+e^{4i\gamma}\big(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10\sin\\
&+e^{-4i\gamma}\big(\cos^8(\beta)-5\sin^2(\beta)\cos^6(\beta)+4\sin^4(\beta)\cos^4(\beta)-5\sin^6(\beta)\cos^2(\beta)+\sin^8(\beta)\big)\big(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)\\
&-34i\sin^3(\beta)\cos^5(\beta)+32\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\big(i\cos^3(\beta)\sin^5(\\
&+e^{8i\gamma}\big(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\big)+e^{4i\gamma}\big(-4\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos(\\
&+e^{-4i\gamma}\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)
\end{aligned}
$$

p = 0.2707151609562656

$$\left(2e^{8i\gamma}\cos^4(\beta)\left(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)\right.\right.$$

$$+36\sin^4(\beta)\cos^4(\beta)+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)$$

$$+e^{-4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)$$

$$+e^{4i\gamma}\left(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8i\right.$$

$$+e^{8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right)\right)\sin^4(\beta)+\left(-\sin^2(\beta)\cos^6(\beta)+2\sin^4(\beta)\cos^4(\beta)-\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)\right.$$

$$+8i\sin(\beta)\cos^7(\beta)-20\sin^2(\beta)\cos^6(\beta)-24i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)$$

$$+34\sin^4(\beta)\cos^4(\beta)+24i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)-8i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$

$$+e^{-4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)$$

$$+e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\right)$$

$$+\left(2i\sin(\beta)\cos^7(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta)\right.$$

$$+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+30\sin^4(\beta)\cos^4(\beta)+32i\sin^5(\beta)\cos^3(\beta)$$

$$-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)$$

$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\right.$$

$$+e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$

$$+\left(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-26i\sin^3(\beta)\cos\right.$$

$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+42\sin^4(\beta)\cos^4(\beta)+26i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta$$

$$+\sin^8(\beta)+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\right.$$

$$+e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$

$$+\left(2i\sin(\beta)\cos^7(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^5\right.$$

$$-34i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(i\cos^3(\right.$$

$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos\right.$$

$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-$$

$$+\left(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos\right.$$

$$+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$

$$+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4\right.$$

$$+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)\right.$$

$$+\left(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos\right.$$

$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$

$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4\right.$$

$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)-\right.$$

$$+\left(-2\sin^2(\beta)\cos^6(\beta)+4\sin^4(\beta)\cos^4(\beta)-2\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-18\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos\right.$$

$$+38\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-18\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\right.$$

$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4\right.$$

$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)-\right.$$

$$+\left(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-14\sin^2(\beta)\cos^6(\beta)-30i\sin^3(\beta)\cos\right.$$

$$+46\sin^4(\beta)\cos^4(\beta)+30i\sin^5(\beta)\cos^3(\beta)-14\sin^6(\beta)\cos^2(\beta)-2i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\right.$$

$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4\right.$$

$$+e^{4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+13i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-\right.$$

$$+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)\left(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos\right.$$

$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)+e^{-4i\gamma}\left(8i\sin\right.$$

$$+e^{-8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right)\right)$$

$$+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-6i\sin^3(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)\right.$$

$$-33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta\right.$$

$$+e^{4i\gamma}\left(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\right)+e^{-8i\gamma}\left(i\cos^7(\beta\right.$$

$$+e^{-4i\gamma}\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10\sin\right.$$

$$+e^{4i\gamma}\left(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta)\right.$$

$$+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{-4i\gamma}\left(-6\sin^2(\beta)\right.$$

$$+e^{8i\gamma}\left(i\cos^7(\beta)\sin(\beta)-i\cos(\beta)\sin^7(\beta)\right)+e^{4i\gamma}\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4\right.$$

$$+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-6i\sin^3(\beta)\cos^5(\beta)+6i\sin^5(\beta)\cos^3(\beta)-2i\sin^7(\beta)\cos(\beta)\right)\left(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)\right.$$

$$-34i\sin^3(\beta)\cos^5(\beta)+32\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)\right.$$

$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\,c\right.$$

$$+e^{-4i\gamma}\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\right.$$

$$+e^{4i\gamma}\left(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\right)\left(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-34i\sin^3(\beta)\cos^5(\beta)+32\sin^4(\beta)\cos^4(\beta)\right.$$

$$+34i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5\right.$$

p = 0.2940512613854841

$$\big(4\cos^4(\beta)\,\big(\cos^8(\beta)+8i\sin(\beta)\cos^7(\beta)-20\sin^2(\beta)\cos^6(\beta)-24i\sin^3(\beta)\cos^5(\beta)$$
$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+34\sin^4(\beta)\cos^4(\beta)$$
$$+24i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)-8i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$
$$+e^{-4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)$$
$$+e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\big)\sin^4(\beta)$$
$$+8\cos^4(\beta)\,\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-18\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)$$
$$+38\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-18\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$
$$+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)$$
$$+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)-$$
$$+2e^{-8i\gamma}\cos^4(\beta)\,\big(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos^4(\beta)$$
$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)$$
$$+e^{-4i\gamma}\left(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8$$
$$+e^{-8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right)\big)\sin^4(\beta)+2e^{8i\gamma}\cos^4(\beta)\,\big(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)$$
$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos^4(\beta)+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)$$
$$+e^{-4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)+e^{4i\gamma}\left(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta$$
$$+e^{8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right)\big)\sin^4(\beta)+\big(16i\cos^3(\beta)\sin^5(\beta)-16i\cos^5(\beta)\sin^3(\beta)\big)\,\big(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta$$
$$-32i\sin^3(\beta)\cos^5(\beta)+30\sin^4(\beta)\cos^4(\beta)+32i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(i\cos^3($$
$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4($$
$$+e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+\big(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)\,\big(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-26i\sin^3(\beta)\cos$$
$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+42\sin^4(\beta)\cos^4(\beta)+26i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta$$
$$+\sin^8(\beta)+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)$$
$$+e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+\big(4i\sin(\beta)\cos^7(\beta)-12i\sin^3(\beta)\cos^5(\beta)+12i\sin^5(\beta)\cos^3(\beta)-4i\sin^7(\beta)\cos(\beta)\big)\,\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6$$
$$-34i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(i\cos^3($$
$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-$$
$$+\big(-2\sin^2(\beta)\cos^6(\beta)+12\sin^4(\beta)\cos^4(\beta)-2\sin^6(\beta)\cos^2(\beta)\big)\,\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos$$
$$+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$
$$+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^2$$
$$+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)$$
$$+\big(-6\sin^2(\beta)\cos^6(\beta)+4\sin^4(\beta)\cos^4(\beta)-6\sin^6(\beta)\cos^2(\beta)\big)\,\big(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos$$
$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$
$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^2$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)-$$
$$+\big(-4\sin^2(\beta)\cos^6(\beta)+8\sin^4(\beta)\cos^4(\beta)-4\sin^6(\beta)\cos^2(\beta)\big)\,\big(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-14\sin^2(\beta)\cos^6(\beta)-30i\sin^3(\beta)\cos$$
$$+46\sin^4(\beta)\cos^4(\beta)+30i\sin^5(\beta)\cos^3(\beta)-14\sin^6(\beta)\cos^2(\beta)-2i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)$$
$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^2$$
$$+e^{4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+13i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+e^{-4i\gamma}\left(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\right)\,\big(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta$$
$$+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{4i\gamma}\left(-6\sin^2(\beta)\cos$$
$$+e^{-8i\gamma}\left(i\cos^7(\beta)\sin(\beta)-i\cos(\beta)\sin^7(\beta)\right)+e^{-4i\gamma}\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\,\text{s}$$
$$+e^{4i\gamma}\left(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\right)\,\big(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta)$$
$$+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{-4i\gamma}\left(-6\sin^2(\beta)$$
$$+e^{8i\gamma}\left(i\cos^7(\beta)\sin(\beta)-i\cos(\beta)\sin^7(\beta)\right)+e^{4i\gamma}\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4$$
$$+e^{-4i\gamma}\left(4i\sin(\beta)\cos^7(\beta)-4i\sin^3(\beta)\cos^5(\beta)+4i\sin^5(\beta)\cos^3(\beta)-4i\sin^7(\beta)\cos(\beta)\right)\,\big(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)$$
$$-34i\sin^3(\beta)\cos^5(\beta)+32\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5($$
$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos$$
$$+e^{-4i\gamma}\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)$$
$$+e^{4i\gamma}\left(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\right)\,\big(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-34i\sin^3(\beta)\cos^5(\beta)+32\sin^4(\beta)\cos^4(\beta)$$

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$$+34i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5($$
$$+e^{-4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)+e^{4i\gamma}\left(\cos^8(\beta)$$
$$+e^{-4i\gamma}\left(\cos^8(\beta)-2\sin^2(\beta)\cos^6(\beta)+2\sin^4(\beta)\cos^4(\beta)-2\sin^6(\beta)\cos^2(\beta)+\sin^8(\beta)\right)\,\big(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)$$

p = 0.3114284696602445

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$$\left(16\cos^4(\beta)\left(\cos^8(\beta) + 2i\sin(\beta)\cos^7(\beta) - 14\sin^2(\beta)\cos^6(\beta) - 30i\sin^3(\beta)\cos^5(\beta)\right.\right.$$

$$+ 46\sin^4(\beta)\cos^4(\beta) + 30i\sin^5(\beta)\cos^3(\beta) - 14\sin^6(\beta)\cos^2(\beta) - 2i\sin^7(\beta)\cos(\beta) + \sin^8(\beta)$$

$$+ e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\right) + e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\right)$$

$$+ e^{-4i\gamma}\left(3i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 13i\sin^3(\beta)\cos^5(\beta) + 12\sin^4(\beta)\cos^4(\beta) + 13i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta)\right.$$

$$+ e^{4i\gamma}\left(3i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 13i\sin^3(\beta)\cos^5(\beta) + 12\sin^4(\beta)\cos^4(\beta) + 13i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta) -\right.$$

$$+ 2e^{-8i\gamma}\cos^4(\beta)\left(-20\sin^2(\beta)\cos^6(\beta) - 32i\sin^3(\beta)\cos^5(\beta) + 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta) + 36\sin^4(\beta)\cos^4(\beta)\right.$$

$$+ 32i\sin^5(\beta)\cos^3(\beta) - 20\sin^6(\beta)\cos^2(\beta) + e^{4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta) + 24\sin^4(\beta)\cos^4(\beta) + 16i\sin^5(\beta)\cos^3(\beta)\right)$$

$$+ e^{-4i\gamma}\left(8i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 8i\sin^3(\beta)\cos^5(\beta) + 8\sin^4(\beta)\cos^4(\beta) + 8i\sin^5(\beta)\cos^3(\beta) - 8\sin^6(\beta)\cos^2(\beta) - 8\right.$$

$$+ e^{-8i\gamma}\left(\cos^8(\beta) + \sin^8(\beta)\right)\right)\sin^4(\beta) + 2e^{8i\gamma}\cos^4(\beta)\left(-20\sin^2(\beta)\cos^6(\beta) - 32i\sin^3(\beta)\cos^5(\beta)\right.$$

$$+ 2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta) + 36\sin^4(\beta)\cos^4(\beta) + 32i\sin^5(\beta)\cos^3(\beta) - 20\sin^6(\beta)\cos^2(\beta)$$

$$+ e^{-4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta) + 24\sin^4(\beta)\cos^4(\beta) + 16i\sin^5(\beta)\cos^3(\beta)\right)$$

$$+ e^{4i\gamma}\left(8i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 8i\sin^3(\beta)\cos^5(\beta) + 8\sin^4(\beta)\cos^4(\beta) + 8i\sin^5(\beta)\cos^3(\beta) - 8\sin^6(\beta)\cos^2(\beta) - 8i$$

$$+ e^{8i\gamma}\left(\cos^8(\beta) + \sin^8(\beta)\right)\right)\sin^4(\beta)$$

$$+ 8e^{-4i\gamma}\cos^4(\beta)\left(4i\sin(\beta)\cos^7(\beta) - 16\sin^2(\beta)\cos^6(\beta) - 28i\sin^3(\beta)\cos^5(\beta) + 2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)\right.$$

$$+ 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta) + 44\sin^4(\beta)\cos^4(\beta) + 28i\sin^5(\beta)\cos^3(\beta) - 16\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta)$$

$$+ e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta) - 16i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 16i\sin^5(\beta)\cos^3(\beta) - 4\sin^6(\beta)\cos^2(\beta)\right) + e^{-4i\gamma}\left(\cos^8(\beta) +\right.$$

$$+ 8e^{4i\gamma}\cos^4(\beta)\left(4i\sin(\beta)\cos^7(\beta) - 16\sin^2(\beta)\cos^6(\beta) - 28i\sin^3(\beta)\cos^5(\beta) + 2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta) + 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)\right.$$

$$+ 44\sin^4(\beta)\cos^4(\beta) + 28i\sin^5(\beta)\cos^3(\beta) - 16\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + e^{-4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta) - 16i\sin^3(\beta)\cos^5\right.$$

$$+ e^{4i\gamma}\left(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 12i\sin^3(\beta)\cos^5(\beta) + 6\sin^4(\beta)\cos^4(\beta) + 12i\sin^5(\beta)\cos^3(\beta) - 8\sin^6(\beta)\right.$$

$$+ \left(\cos^8(\beta) + 2\sin^4(\beta)\cos^4(\beta) + \sin^8(\beta)\right)\left(\cos^8(\beta) + 8i\sin(\beta)\cos^7(\beta) - 20\sin^2(\beta)\cos^6(\beta) - 24i\sin^3(\beta)\cos^5(\beta) + 2e^{-8i\gamma}\sin^4(\beta)\right.$$

$$+ 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta) + 34\sin^4(\beta)\cos^4(\beta) + 24i\sin^5(\beta)\cos^3(\beta) - 20\sin^6(\beta)\cos^2(\beta) - 8i\sin^7(\beta)\cos(\beta) + \sin^8(\beta)$$

$$+ e^{-4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta) - 16i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 16i\sin^5(\beta)\cos^3(\beta) - 4\sin^6(\beta)\cos^2(\beta)\right) + e^{4i\gamma}\left(-4\sin^2(\right.$$

$$+ \left(8i\sin(\beta)\cos^7(\beta) - 8i\sin^3(\beta)\cos^5(\beta) + 8i\sin^5(\beta)\cos^3(\beta) - 8i\sin^7(\beta)\cos(\beta)\right)\left(\cos^8(\beta) + 6i\sin(\beta)\cos^7(\beta) - 16\sin^2(\beta)\cos^6(\beta)\right.$$

$$- 32i\sin^3(\beta)\cos^5(\beta) + 30\sin^4(\beta)\cos^4(\beta) + 32i\sin^5(\beta)\cos^3(\beta) - 16\sin^6(\beta)\cos^2(\beta) - 6i\sin^7(\beta)\cos(\beta) + \sin^8(\beta) + e^{-8i\gamma}\left(i\cos^3(\right.$$

$$+ e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\right) + e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 11i\sin^3(\beta)\cos^5(\beta) + 20\sin^4(\beta)\cos^4\right.$$

$$+ e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 11i\sin^3(\beta)\cos^5(\beta) + 20\sin^4(\beta)\cos^4(\beta) + 11i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta) -\right.$$

$$+ \left(-8\sin^2(\beta)\cos^6(\beta) - 8\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta) + 6i\sin(\beta)\cos^7(\beta) - 16\sin^2(\beta)\cos^6(\beta) - 26i\sin^3(\beta)\cos^5(\beta) + 2e^{-8i\gamma}\sin^4(\right.$$

$$+ 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta) + 42\sin^4(\beta)\cos^4(\beta) + 26i\sin^5(\beta)\cos^3(\beta) - 16\sin^6(\beta)\cos^2(\beta) - 6i\sin^7(\beta)\cos(\beta) + \sin^8(\beta)$$

$$+ e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 15i\sin^3(\beta)\cos^5(\beta) + 12\sin^4(\beta)\cos^4(\beta) + 15i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta) -\right.$$

$$+ e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta) - 6\sin^2(\beta)\cos^6(\beta) - 15i\sin^3(\beta)\cos^5(\beta) + 12\sin^4(\beta)\cos^4(\beta) + 15i\sin^5(\beta)\cos^3(\beta) - 6\sin^6(\beta)\cos^2(\beta) -\right.$$

$$+ \left(16i\cos^3(\beta)\sin^5(\beta) - 16i\cos^5(\beta)\sin^3(\beta)\right)\left(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 12\sin^2(\beta)\cos^6(\beta) - 34i\sin^3(\beta)\cos^5(\beta)\right.$$

$$+ 38\sin^4(\beta)\cos^4(\beta) + 34i\sin^5(\beta)\cos^3(\beta) - 12\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + \sin^8(\beta) + e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\right.$$

$$+ e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\right) + e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 10i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^{-}\right.$$

$$+ e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta) - 8\sin^2(\beta)\cos^6(\beta) - 10i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 10i\sin^5(\beta)\cos^3(\beta) - 8\sin^6(\beta)\cos^2(\beta) -\right.$$

$$+ \left(-4\sin^2(\beta)\cos^6(\beta) + 8\sin^4(\beta)\cos^4(\beta) - 4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 15\sin^2(\beta)\cos^6(\beta) - 28i\sin^3(\beta)\cos\right.$$

$$+ 2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta) + 44\sin^4(\beta)\cos^4(\beta) + 28i\sin^5(\beta)\cos^3(\beta) - 15\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + \sin^8(\beta)$$

$$+ e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\right) + e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta) - 7\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 10\sin^4(\beta)\cos^{-}\right.$$

$$+ e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta) - 5\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 14\sin^4(\beta)\cos^4(\beta) + 14i\sin^5(\beta)\cos^3(\beta) - 5\sin^6(\beta)\cos^2(\beta)\right.$$

$$+ \left(-4\sin^2(\beta)\cos^6(\beta) + 8\sin^4(\beta)\cos^4(\beta) - 4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 15\sin^2(\beta)\cos^6(\beta) - 28i\sin^3(\beta)\cos\right.$$

$$+ 2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta) + 44\sin^4(\beta)\cos^4(\beta) + 28i\sin^5(\beta)\cos^3(\beta) - 15\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + \sin^8(\beta)$$

$$+ e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\right) + e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta) - 7\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 10\sin^4(\beta)\cos^{-}\right.$$

$$+ e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta) - 5\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 14\sin^4(\beta)\cos^4(\beta) + 14i\sin^5(\beta)\cos^3(\beta) - 5\sin^6(\beta)\cos^2(\beta) -\right.$$

$$+ \left(-4\sin^2(\beta)\cos^6(\beta) - 4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta) + 4i\sin(\beta)\cos^7(\beta) - 18\sin^2(\beta)\cos^6(\beta) - 28i\sin^3(\beta)\cos^5(\beta) + 38\sin^4(\beta)\cos\right.$$

$$+ 28i\sin^5(\beta)\cos^3(\beta) - 18\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + \sin^8(\beta) + e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\right)$$

$$+ e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta) - \sin^6(\beta)\cos^2(\beta)\right) + e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta) - 4\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^{-}\right.$$

$$+ e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta) - 4\sin^2(\beta)\cos^6(\beta) - 14i\sin^3(\beta)\cos^5(\beta) + 16\sin^4(\beta)\cos^4(\beta) + 14i\sin^5(\beta)\cos^3(\beta) - 4\sin^6(\beta)\cos^2(\beta) -\right.$$

$$+ e^{-4i\gamma}\left(8i\cos^3(\beta)\sin^5(\beta) - 8i\cos^5(\beta)\sin^3(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta) - 12\sin^2(\beta)\cos^6(\beta) - 33i\sin^3(\beta)\cos^5(\beta) + 40\sin^4(\beta)\cos^4(\beta)\right.$$

$$+ 33i\sin^5(\beta)\cos^3(\beta) - 12\sin^6(\beta)\cos^2(\beta) - 5i\sin^7(\beta)\cos(\beta) + e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\right) + e^{4i\gamma}\left(-6\sin^2(\beta)\cos\right.$$

$$+ e^{-8i\gamma}\left(i\cos^7(\beta)\sin(\beta) - i\cos(\beta)\sin^7(\beta)\right) + e^{-4i\gamma}\left(\cos^8(\beta) + 2i\sin(\beta)\cos^7(\beta) - 10\sin^2(\beta)\cos^6(\beta) - 10i\sin^3(\beta)\cos^5(\beta) + 10\sin\right.$$

$$+ e^{4i\gamma}\left(8i\cos^3(\beta)\sin^5(\beta) - 8i\cos^5(\beta)\sin^3(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta) - 12\sin^2(\beta)\cos^6(\beta) - 33i\sin^3(\beta)\cos^5(\beta) + 40\sin^4(\beta)\cos^4(\beta)\right.$$

$$+ 33i\sin^5(\beta)\cos^3(\beta) - 12\sin^6(\beta)\cos^2(\beta) - 5i\sin^7(\beta)\cos(\beta) + e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\right) + e^{-4i\gamma}\left(-6\sin^2(\beta)\right.$$

$$+ e^{8i\gamma}\left(i\cos^7(\beta)\sin(\beta) - i\cos(\beta)\sin^7(\beta)\right) + e^{4i\gamma}\left(\cos^8(\beta) + 2i\sin(\beta)\cos^7(\beta) - 10\sin^2(\beta)\cos^6(\beta) - 10i\sin^3(\beta)\cos^5(\beta) + 10\sin^4\right.$$

$$+ e^{-4i\gamma}\left(8i\cos^3(\beta)\sin^5(\beta) - 8i\cos^5(\beta)\sin^3(\beta)\right)\left(4i\sin(\beta)\cos^7(\beta) - 16\sin^2(\beta)\cos^6(\beta) - 34i\sin^3(\beta)\cos^5(\beta) + 32\sin^4(\beta)\cos^4(\beta)\right.$$

$$+ 34i\sin^5(\beta)\cos^3(\beta) - 16\sin^6(\beta)\cos^2(\beta) - 4i\sin^7(\beta)\cos(\beta) + e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta) - i\cos^5(\beta)\sin^3(\beta)\right) + e^{8i\gamma}\left(i\cos^3(\beta)\sin^5\right.$$

p = 0.1230507213760899

$$\left(4\cos^4(\beta)\left(\cos^8(\beta)+8i\sin(\beta)\cos^7(\beta)-20\sin^2(\beta)\cos^6(\beta)-24i\sin^3(\beta)\cos^5(\beta)\right.\right.$$
$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+34\sin^4(\beta)\cos^4(\beta)$$
$$+24i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)-8i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$
$$+e^{-4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)$$
$$+e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\right)\sin^4(\beta)$$
$$+16\cos^4(\beta)\left(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-26i\sin^3(\beta)\cos^5(\beta)\right.$$
$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+42\sin^4(\beta)\cos^4(\beta)$$
$$+26i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)$$
$$+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-15i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+15i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+16\cos^4(\beta)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)\right.$$
$$+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)$$
$$-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)$$
$$+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-7\sin^6(\beta)\cos^2(\beta)$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)-$$
$$+2e^{8i\gamma}\cos^4(\beta)\left(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos^4(\beta)\right.$$
$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{-4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)$$
$$+e^{4i\gamma}\left(8i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-8i\sin^3(\beta)\cos^5(\beta)+8\sin^4(\beta)\cos^4(\beta)+8i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-8i$$
$$+e^{8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right)\right)\sin^4(\beta)+8e^{-4i\gamma}\cos^4(\beta)\left(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\right.$$
$$+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{4i\gamma}\left(-4\sin^2(\beta)\cos^6\right.$$
$$+e^{-4i\gamma}\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+6\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\right.$$
$$+8e^{4i\gamma}\cos^4(\beta)\left(4i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)\right.$$
$$+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-4i\gamma}\left(-4\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5\right.$$
$$+e^{4i\gamma}\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+6\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)$$
$$+16e^{4i\gamma}\cos^4(\beta)\left(4i\sin(\beta)\cos^7(\beta)-19\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+2e^{-8i\gamma}\sin^4(\beta)\cos^4(\beta)+38\sin^4(\beta)\cos^4(\beta)\right.$$
$$+28i\sin^5(\beta)\cos^3(\beta)-19\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+e^{-4i\gamma}\left(-3\sin^2(\beta)\cos^6(\beta)-16i\sin^3(\beta)\cos^5(\beta)+18\sin^4(\beta)\cos^4\right.$$
$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{4i\gamma}\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+12\sin$$
$$+\left(16i\cos^3(\beta)\sin^5(\beta)-16i\cos^5(\beta)\sin^3(\beta)\right)\left(\cos^8(\beta)+6i\sin(\beta)\cos^7(\beta)-16\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)\right.$$
$$+30\sin^4(\beta)\cos^4(\beta)+32i\sin^5(\beta)\cos^3(\beta)-16\sin^6(\beta)\cos^2(\beta)-6i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\right.$$
$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{-4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\right.$$
$$+e^{4i\gamma}\left(i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-11i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+11i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+\left(16i\cos^3(\beta)\sin^5(\beta)-16i\cos^5(\beta)\sin^3(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-34i\sin^3(\beta)\cos^5(\beta)\right.$$
$$+38\sin^4(\beta)\cos^4(\beta)+34i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\right.$$
$$+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)-i\cos^5(\beta)\sin^3(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\right.$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-8\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-8\sin^6(\beta)\cos^2(\beta)-$$
$$+\left(-8\sin^2(\beta)\cos^6(\beta)-8\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-15\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\right.$$
$$+44\sin^4(\beta)\cos^4(\beta)+28i\sin^5(\beta)\cos^3(\beta)-15\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\right.$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-7\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-7\sin^6(\beta)\cos^2(\beta)-$$
$$+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-5\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+14\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-5\sin^6(\beta)\cos^2(\beta)$$
$$+\left(-4\sin^2(\beta)\cos^6(\beta)-4\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+4i\sin(\beta)\cos^7(\beta)-18\sin^2(\beta)\cos^6(\beta)-28i\sin^3(\beta)\cos^5(\beta)+38\sin^4(\beta)\cos\right.$$
$$+28i\sin^5(\beta)\cos^3(\beta)-18\sin^6(\beta)\cos^2(\beta)-4i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)$$
$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4\right.$$
$$+e^{4i\gamma}\left(2i\sin(\beta)\cos^7(\beta)-4\sin^2(\beta)\cos^6(\beta)-14i\sin^3(\beta)\cos^5(\beta)+16\sin^4(\beta)\cos^4(\beta)+14i\sin^5(\beta)\cos^3(\beta)-4\sin^6(\beta)\cos^2(\beta)-$$
$$+\left(-8\sin^2(\beta)\cos^6(\beta)-8\sin^6(\beta)\cos^2(\beta)\right)\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-14\sin^2(\beta)\cos^6(\beta)-30i\sin^3(\beta)\cos^5(\beta)+46\sin^4(\beta)\cos\right.$$
$$+30i\sin^5(\beta)\cos^3(\beta)-14\sin^6(\beta)\cos^2(\beta)-2i\sin^7(\beta)\cos(\beta)+\sin^8(\beta)+e^{-8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)$$
$$+e^{8i\gamma}\left(-\sin^2(\beta)\cos^6(\beta)-\sin^6(\beta)\cos^2(\beta)\right)+e^{-4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos\right.$$
$$+e^{4i\gamma}\left(3i\sin(\beta)\cos^7(\beta)-6\sin^2(\beta)\cos^6(\beta)-13i\sin^3(\beta)\cos^5(\beta)+12\sin^4(\beta)\cos^4(\beta)+13i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)-$$
$$+e^{-8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right)\left(-20\sin^2(\beta)\cos^6(\beta)-32i\sin^3(\beta)\cos^5(\beta)+2e^{8i\gamma}\sin^4(\beta)\cos^4(\beta)+36\sin^4(\beta)\cos^4(\beta)\right.$$
$$+32i\sin^5(\beta)\cos^3(\beta)-20\sin^6(\beta)\cos^2(\beta)+e^{4i\gamma}\left(-16i\sin^3(\beta)\cos^5(\beta)+24\sin^4(\beta)\cos^4(\beta)+16i\sin^5(\beta)\cos^3(\beta)\right)+e^{-4i\gamma}\left(8i\right.$$
$$+e^{-8i\gamma}\left(\cos^8(\beta)+\sin^8(\beta)\right)\right)+e^{-4i\gamma}\left(8i\cos^7(\beta)\sin(\beta)-8i\cos(\beta)\sin^7(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)\right.$$
$$-33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta)+33i\sin^5(\beta)\cos^3(\beta)-12\sin^6(\beta)\cos^2(\beta)-5i\sin^7(\beta)\cos(\beta)+e^{8i\gamma}\left(i\cos^3(\beta)\sin^5(\beta)\right.$$
$$+e^{4i\gamma}\left(-6\sin^2(\beta)\cos^6(\beta)-12i\sin^3(\beta)\cos^5(\beta)+20\sin^4(\beta)\cos^4(\beta)+12i\sin^5(\beta)\cos^3(\beta)-6\sin^6(\beta)\cos^2(\beta)\right)+e^{-8i\gamma}\left(i\cos^7(\right.$$
$$+e^{-4i\gamma}\left(\cos^8(\beta)+2i\sin(\beta)\cos^7(\beta)-10\sin^2(\beta)\cos^6(\beta)-10i\sin^3(\beta)\cos^5(\beta)+10\sin^4(\beta)\cos^4(\beta)+10i\sin^5(\beta)\cos^3(\beta)-10\sin$$
$$+e^{4i\gamma}\left(8i\cos^3(\beta)\sin^5(\beta)-8i\cos^5(\beta)\sin^3(\beta)\right)\left(5i\sin(\beta)\cos^7(\beta)-12\sin^2(\beta)\cos^6(\beta)-33i\sin^3(\beta)\cos^5(\beta)+40\sin^4(\beta)\cos^4(\beta)\right.$$

p = 0.2138844477325827