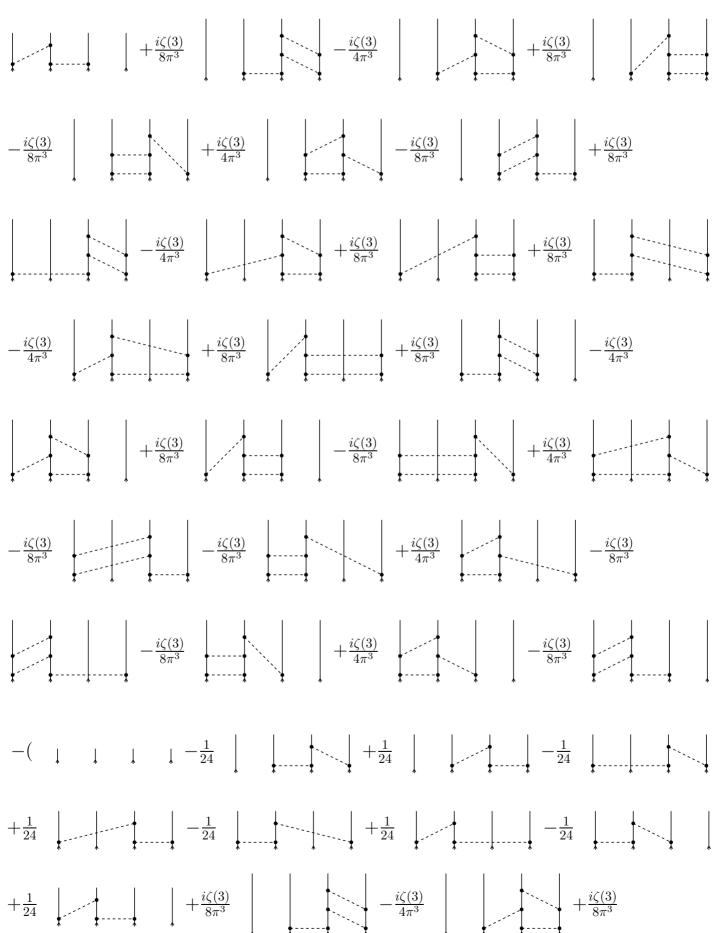
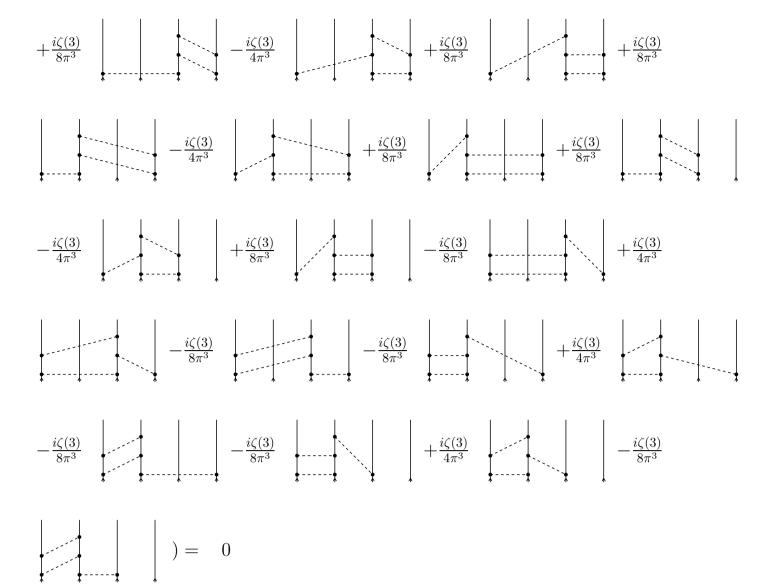
The KZ associator is: $+\frac{1}{24} + \frac{1}{8\pi^3} + \frac{i\zeta(3)}{8\pi^3} + \frac{i\zeta(3)}{8\pi^3} + \frac{i\zeta(3)}{8\pi^3}$ $-\frac{i\zeta(3)}{8\pi^3} + \frac{i\zeta(3)}{4\pi^3} - \frac{i\zeta(3)}{8\pi^3}$ Pentagon up to order 3 $+\frac{1}{24}$ $+\frac{1}{24}$ $+\frac{1}{24}$ $+\frac{1}{24}$ $-\frac{1}{24}$ $+\frac{1}{24}$ $+\frac{1}{24}$ $+\frac{1}{24}$ $+\frac{i\zeta(3)}{8\pi^3}$ $+\frac{i\zeta(3)}{8\pi^3}$ $+\frac{i\zeta(3)}{8\pi^3}$ $-\frac{i\zeta(3)}{8\pi^{3}} + \frac{i\zeta(3)}{4\pi^{3}} + \frac{i\zeta(3)}{8\pi^{3}} + \frac{i\zeta(3)}{8\pi^{3}}$ $-\frac{i\zeta(3)}{4\pi^3} + \frac{i\zeta(3)}{8\pi^3} + \frac{i\zeta(3)}{8\pi^3}$ $-\frac{i\zeta(3)}{4\pi^{3}} + \frac{i\zeta(3)}{8\pi^{3}} + \frac{i\zeta(3)}{8\pi^{3}} - \frac{i\zeta(3)}{4\pi^{3}}$ $+\frac{i\zeta(3)}{8\pi^3}$ $-\frac{i\zeta(3)}{8\pi^3}$ $+\frac{i\zeta(3)}{4\pi^3}$



 $-\frac{i\zeta(3)}{8\pi^3} \qquad +\frac{i\zeta(3)}{4\pi^3} \qquad -\frac{i\zeta(3)}{8\pi^3} \qquad -\frac{i\zeta(3)}{8\pi^2} \qquad -\frac{i\zeta(3)}{8\pi^3} \qquad -\frac{i\zeta(3)}{$



 $\nu^{-1} = \text{from the [CMD] book on page 345 is}$

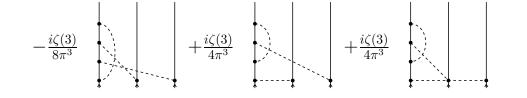
 $\nu^{-1} = \text{from the KZ associator}$

$$-\frac{1}{24}$$
 $+\frac{1}{24}$

Their difference: 0

Calculate a: $a = 1 + \frac{1}{24} + \frac{1}{24} + \frac{i\zeta(3)}{8\pi^3} + \frac{i\zeta(3)}{8\pi^3} + \frac{i\zeta(3)}{8\pi^3}$

Associator in the choses basis is: $\Phi = \frac{1}{4\pi^3} + \frac{1}{24} + \frac$



Associator twisted by a, in the choses basis, is:

$$\Phi^{a} = \frac{1}{124} + \frac{1}{24} + \frac{i\zeta(3)}{4\pi^{3}} + \frac{i\zeta(3)}{8\pi^{3}} + \frac{i\zeta(3)}{8\pi^{3}} + \frac{i\zeta(3)}{8\pi^{3}} + \frac{i\zeta(3)}{8\pi^{3}}$$

$$+\frac{i\zeta(3)}{8\pi^3} \qquad -\frac{i\zeta(3)}{4\pi^3} \qquad -\frac{i\zeta(3)}{4\pi^3}$$