

$$\begin{aligned}
& \frac{1/2i\langle 2|1+6|2\rangle\langle 2|1+6|4\rangle^4\langle 6|1+2|3\rangle^3}{\langle 12\rangle\langle 16\rangle[34][45]\langle 2|1+6|3\rangle^4\langle 2|1+6|5\rangle s_{345}} + \\
& \frac{-2i\langle 2|1+6|2\rangle\langle 2|1+6|4\rangle^3\langle 6|1+2|3\rangle^2\langle 6|1+2|4\rangle}{\langle 12\rangle\langle 16\rangle[34][45]\langle 2|1+6|3\rangle^3\langle 2|1+6|5\rangle s_{345}} + \\
& \frac{3i\langle 2|1+6|2\rangle\langle 2|1+6|4\rangle^2\langle 6|1+2|3\rangle\langle 6|1+2|4\rangle^2}{\langle 12\rangle\langle 16\rangle[34][45]\langle 2|1+6|3\rangle^2\langle 2|1+6|5\rangle s_{345}} + \\
& \frac{-2i\langle 2|1+6|2\rangle\langle 2|1+6|4\rangle\langle 6|1+2|4\rangle^3}{\langle 12\rangle\langle 16\rangle[34][45]\langle 2|1+6|3\rangle\langle 2|1+6|5\rangle s_{345}}
\end{aligned}$$