

$$\begin{aligned}
& \frac{-3\langle 24 \rangle \langle 26 \rangle [25] [12]^2 s_{134}}{[13] \langle 25+6 \rangle [2]^3 \langle 21+4 \rangle [3]} + \\
& (123456 \rightarrow \overline{432165}) + \\
& \frac{[25] [12] \langle 24 \rangle (-4 \langle 13 \rangle \langle 23 \rangle [35] [13] \dots \langle 4 \text{ terms} \rangle \dots + 4 \langle 14 \rangle [15] [14] \langle 12 \rangle)}{[56] \langle 25+6 \rangle [2]^2 \langle 21+4 \rangle [3]^2} + \\
& \frac{[25] [12] \langle 24 \rangle (1/2 [23] [13] \langle 23 \rangle [45] \langle 34 \rangle \dots \langle 3 \text{ terms} \rangle \dots + 1/2 \langle 13 \rangle [13] \langle 23 \rangle [35] [12])}{[13] [56] \langle 25+6 \rangle [2]^2 \langle 21+4 \rangle [3] \langle 21+3 \rangle [2]} + \\
& \frac{[25] [12] (1 \langle 14 \rangle [15] [14] \langle 24 \rangle \dots \langle 6 \text{ terms} \rangle \dots - 3 \langle 24 \rangle \langle 13 \rangle [15] [13])}{[13] [56] \langle 25+6 \rangle [2]^2 \langle 21+4 \rangle [3]} + \\
& \frac{[25] \langle 24 \rangle [12] (-1/2 [25] \langle 34 \rangle [14] + 1/2 \langle 13 \rangle [15] [12])}{[13] [56] \langle 25+6 \rangle [2]^2 \langle 21+3 \rangle [2]} + \\
& \frac{6 \langle 24 \rangle^2 \langle 26 \rangle [35] [24] s_{134}}{\langle 12 \rangle \langle 21+4 \rangle [3]^3 \langle 25+6 \rangle [2]} + \\
& \frac{[35] (-3 \langle 13 \rangle \langle 23 \rangle [25] [13]^2 \dots \langle 11 \text{ terms} \rangle \dots + 1 \langle 24 \rangle [14] [25] [12] \langle 12 \rangle)}{[34] [56] \langle 25+6 \rangle [2] \langle 21+4 \rangle [3]^2} + \\
& \frac{\langle 24 \rangle [25] [12] (-1/2 [34] \langle 24 \rangle \langle 14 \rangle [14] [45] \dots \langle 3 \text{ terms} \rangle \dots - 1/2 \langle 14 \rangle [14]^2 [35] \langle 12 \rangle)}{\langle 12 \rangle [13] [34] [56] \langle 21+3 \rangle [2] \langle 25+6 \rangle [2] \langle 21+4 \rangle [3]} + \\
& \frac{[45] (-3 \langle 14 \rangle [13] [15] [12] \langle 12 \rangle \dots \langle 10 \text{ terms} \rangle \dots - 1/2 [24] [13] [25] \langle 24 \rangle^2)}{\langle 12 \rangle [13] [34] [56] \langle 25+6 \rangle [2] \langle 21+4 \rangle [3]} + \\
& \frac{[35] (-1/2 \langle 14 \rangle [14]^2 [25] \langle 24 \rangle \dots \langle 7 \text{ terms} \rangle \dots - 1/2 [13] \langle 23 \rangle^2 [25] [23])}{\langle 12 \rangle [13] [34] [56] \langle 25+6 \rangle [2] \langle 21+4 \rangle [3]} + \\
& \frac{1/2 [45]^2 \langle 41+3 \rangle [2] \langle 23 \rangle}{\langle 12 \rangle [34] [56] \langle 25+6 \rangle [2] \langle 21+3 \rangle [4]} + \\
& \frac{[25] [12] (1/2 \langle 24 \rangle [45] \langle 23 \rangle [23] - 1/2 \langle 14 \rangle [45] [14] \langle 24 \rangle - 1/2 [45] \langle 34 \rangle \langle 12 \rangle [13] + 1/2 [14] \langle 34 \rangle [35] \langle 12 \rangle)}{\langle 12 \rangle [13] [34] [56] \langle 21+3 \rangle [2] \langle 25+6 \rangle [2]} + \\
& \frac{6 [34] \langle 24 \rangle \langle 26 \rangle s_{124} \langle 34 \rangle [35]}{\langle 12 \rangle \langle 21+4 \rangle [3]^3 \langle 35+6 \rangle [3]} + \\
& \frac{-6 \langle 26 \rangle s_{134} [35] \langle 24 \rangle}{\langle 12 \rangle \langle 21+4 \rangle [3]^3} + \\
& \frac{6 \langle 24 \rangle [23] \langle 26 \rangle \langle 23 \rangle [35]}{\langle 12 \rangle \langle 21+4 \rangle [3]^3} + \\
& \frac{-6 \langle 23+4 \rangle [1] \langle 26 \rangle [35] [23]}{[34] \langle 21+4 \rangle [3]^3} + \\
& \frac{\langle 36 \rangle \langle 34 \rangle [35] \langle 414 \rangle [34] [14] \langle 24 \rangle + 4 [24] [34] \langle 24 \rangle^2 - 4 [13] [12] \langle 12 \rangle^2}{\langle 12 \rangle \langle 21+4 \rangle [3]^2 \langle 35+6 \rangle [3]^2} + \\
& \frac{[35] (-1 [24]^2 \langle 23 \rangle [35] \langle 24 \rangle^2 \dots \langle 15 \text{ terms} \rangle \dots - 4 [34] \langle 24 \rangle \langle 14 \rangle [14] [45] \langle 34 \rangle)}{\langle 12 \rangle [34] [56] \langle 21+4 \rangle [3]^2 \langle 35+6 \rangle [3]} + \\
& \frac{[35] (-5/3 [15] [12] \langle 12 \rangle^3 \dots \langle 13 \text{ terms} \rangle \dots - 11/3 \langle 24 \rangle \langle 14 \rangle [14] [45] \langle 12 \rangle)}{\langle 12 \rangle^2 [34] [56] \langle 21+4 \rangle [3]^2} + \\
& \frac{8/3 \langle 12+3 \rangle [4] \langle 26 \rangle [35] [23]^2}{[34]^2 \langle 12+4 \rangle [3]^2 \langle 21+4 \rangle [3]} + \\
& \frac{\langle 14 \rangle [35] (-8/3 [34] [23] \langle 26 \rangle \langle 13 \rangle \langle 23 \rangle \dots \langle 4 \text{ terms} \rangle \dots + 1/2 [23] \langle 26 \rangle \langle 23 \rangle \langle 12 \rangle [24])}{\langle 12 \rangle^2 [34] \langle 12+4 \rangle [3] \langle 21+4 \rangle [3] \langle 35+6 \rangle [3]} + \\
& \frac{\langle 14 \rangle \langle 43 \rangle [34]^2 \langle 24 \rangle \langle 26 \rangle \langle 13 \rangle [35] \dots \langle 5 \text{ terms} \rangle \dots + 13/6 [23] \langle 26 \rangle [13] [45] \langle 12 \rangle^2}{\langle 12 \rangle^2 \langle 24 \rangle [34]^2 \langle 12+4 \rangle [3] \langle 21+4 \rangle [3]} + \\
& \frac{\langle 36 \rangle \langle 34 \rangle [35] (9/2 \langle 14 \rangle [14] \langle 24 \rangle + 9/2 [24] \langle 24 \rangle^2 - 3/2 \langle 24 \rangle [12] \langle 12 \rangle + 1 [13] \langle 34 \rangle \langle 12 \rangle)}{\langle 12 \rangle \langle 24 \rangle \langle 21+4 \rangle [3] \langle 35+6 \rangle [3]^2} + \\
& \frac{\langle 34 \rangle \langle 46 \rangle [35] (\langle 134 \rangle [14] - 1 \langle 23 \rangle [12])}{\langle 24 \rangle \langle 21+4 \rangle [3] \langle 35+6 \rangle [3]^2} + \\
& \frac{[35] (5/2 [13] [14] \langle 34 \rangle^2 [35] \langle 12 \rangle^2 \dots \langle 10 \text{ terms} \rangle \dots + 8/3 \langle 24 \rangle \langle 13 \rangle^2 [13]^2 \langle 23 \rangle [35])}{\langle 12 \rangle^2 [13] \langle 24 \rangle [34] [56] \langle 21+4 \rangle [3] \langle 35+6 \rangle [3]} + \\
& \frac{[45] (-1 [34]^2 \langle 34 \rangle^2 [35] \langle 24 \rangle \dots \langle 9 \text{ terms} \rangle \dots + 9/2 \langle 14 \rangle [13] [14] \langle 34 \rangle [35] \langle 12 \rangle)}{\langle 12 \rangle^2 [13] [34] [56] \langle 21+4 \rangle [3] \langle 35+6 \rangle [3]} + \\
& \frac{[45] (7/6 [34] \langle 24 \rangle^2 \langle 14 \rangle [14] [35] \dots \langle 17 \text{ terms} \rangle \dots - 4/3 \langle 14 \rangle [13]^2 [15] \langle 12 \rangle^2)}{\langle 12 \rangle^2 [13] \langle 24 \rangle [34]^2 [56] \langle 21+4 \rangle [3]} + \\
& \frac{[35] (-3/2 \langle 24 \rangle [14] [12] [35] \langle 12 \rangle^2 \dots \langle 8 \text{ terms} \rangle \dots + 1 \langle 24 \rangle \langle 14 \rangle [14]^2 [35] \langle 12 \rangle)}{\langle 12 \rangle^2 [13] \langle 24 \rangle [34]^2 [56] \langle 21+4 \rangle [3]} + \\
& \frac{-4/3 [13] [15] [25] \langle 12 \rangle}{\langle 24 \rangle [34]^2 [56] \langle 21+4 \rangle [3]} + \\
& \frac{1/2 [34] \langle 14 \rangle^2 \langle 36 \rangle s_{124} [35]}{\langle 12 \rangle^2 [13] \langle 12+4 \rangle [3]^2 \langle 35+6 \rangle [3]} + \\
& \frac{-1/2 \langle 24 \rangle [23]^2 \langle 36 \rangle [35] [24]}{[13] [34] \langle 12+4 \rangle [3]^2 \langle 32+4 \rangle [3]} + \\
& \frac{1/2 \langle 14 \rangle \langle 36 \rangle s_{124} \langle 34 \rangle [35]}{\langle 12 \rangle \langle 24 \rangle \langle 12+4 \rangle [3] \langle 35+6 \rangle [3]^2} + \\
& \frac{\langle 14 \rangle \langle 36 \rangle (1/2 [34] \langle 24 \rangle [35] [12] \langle 12 \rangle \dots \langle 4 \text{ terms} \rangle \dots - 1/2 [34] \langle 24 \rangle \langle 14 \rangle [13] [45])}{\langle 12 \rangle^2 [13] \langle 24 \rangle [34] \langle 12+4 \rangle [3] \langle 35+6 \rangle [3]} + \\
& \frac{\langle 14 \rangle [45] \langle 20 \rangle [3] \langle 14 \rangle \langle 26 \rangle - 17/2 \langle 46 \rangle \langle 12 \rangle}{\langle 12 \rangle^2 \langle 24 \rangle [34] \langle 12+4 \rangle [3]} + \\
& \frac{-1/2 \langle 14 \rangle \langle 36 \rangle^2 [23]}{\langle 12 \rangle \langle 56 \rangle \langle 12+4 \rangle [3] \langle 32+4 \rangle [3]} + \\
& \frac{-1/2 [24] \langle 36 \rangle \langle 46 \rangle [23]}{[34] \langle 56 \rangle \langle 12+4 \rangle [3] \langle 32+4 \rangle [3]} + \\
& \frac{[45] (5/3 \langle 24 \rangle \langle 14 \rangle [14] [34] [35] \dots \langle 10 \text{ terms} \rangle \dots + 1 \langle 14 \rangle [13] [15] \langle 34 \rangle \langle 12 \rangle)}{\langle 12 \rangle^2 [13] \langle 24 \rangle [34] [56] \langle 35+6 \rangle [3]} + \\
& \frac{[35] (-19/6 \langle 24 \rangle \langle 13 \rangle [13] \langle 23 \rangle [25] \dots \langle 9 \text{ terms} \rangle \dots - 1 \langle 24 \rangle \langle 13 \rangle [15] [12] \langle 12 \rangle)}{\langle 12 \rangle^2 [13] \langle 24 \rangle [34] [56] \langle 35+6 \rangle [3]} + \\
& \frac{-1/2 \langle 36 \rangle^2 [23]}{\langle 12 \rangle [34] \langle 56 \rangle \langle 32+4 \rangle [3]} + \\
& \frac{-1/2 \langle 23 \rangle [35] [25] [12]}{\langle 12 \rangle [13] [34] [56] \langle 21+3 \rangle [2]}
\end{aligned}$$