

$$\begin{aligned}
& \frac{6[25]^2[12]\langle 24 \rangle \langle 23+4 \rangle [1](s_{13}-s_{24})}{[13][56]\langle 2 \rangle [5+6]2^3 \langle 2 \rangle [1+4]3} + \\
& \frac{-20[25]^2 s_{134} [12]\langle 24 \rangle \langle 23 \rangle}{[56]\langle 2 \rangle [5+6]2^3 \langle 2 \rangle [1+4]3} + \\
& \frac{[12]\langle 26 \rangle (-30\langle 12 \rangle [24]\langle 34 \rangle [13]^2 \langle 46 \rangle \dots \langle 3 \text{ terms} \rangle \dots -38[13]^2 \langle 14 \rangle \langle 26 \rangle [12]\langle 13 \rangle)}{[13][56]\langle 2 \rangle [5+6]2^2 \langle 2 \rangle [1+4]3^2} + \\
& \frac{\langle 26 \rangle \langle 26/3 \rangle [24][13]^2 [12]\langle 46 \rangle \langle 13 \rangle \langle 23 \rangle \dots \langle 20 \text{ terms} \rangle \dots +4[13]\langle 14 \rangle [12]^2 \langle 26 \rangle \langle 13 \rangle [14]}{[13][56]\langle 2 \rangle [5+6]2^2 \langle 2 \rangle [1+4]3 \langle 2 \rangle [1+3]4} + \\
& \frac{\langle 26 \rangle [12](-6\langle 14 \rangle \langle 26 \rangle [12]^2 \dots \langle 8 \text{ terms} \rangle \dots -100/3 \langle 36 \rangle [23]\langle 34 \rangle [13])}{[13][56]\langle 2 \rangle [5+6]2^2 \langle 2 \rangle [1+4]3} + \\
& \frac{[12]^2 \langle 26 \rangle (4/3 \langle 34 \rangle \langle 34 \rangle \langle 36 \rangle \dots \langle 4 \text{ terms} \rangle \dots -2\langle 26 \rangle \langle 13 \rangle [12])}{[13][56]\langle 2 \rangle [5+6]2^2 \langle 2 \rangle [1+3]4} + \\
& \frac{12[24]^2 \langle 24 \rangle^3 \langle 23 \rangle [35]^2}{\langle 12 \rangle [56]\langle 2 \rangle [5+6]2 \langle 2 \rangle [1+4]3^3} + \\
& \frac{-12[24]^2 \langle 24 \rangle^3 [35]^2 [14]}{[34][56]\langle 2 \rangle [5+6]2 \langle 2 \rangle [1+4]3^3} + \\
& \frac{\langle 24 \rangle \langle 2 \rangle [3+4]1[35]^2 (-60[24]\langle 34 \rangle -72\langle 13 \rangle [12])}{[56]\langle 2 \rangle [5+6]2 \langle 2 \rangle [1+4]3^3} + \\
& \frac{\langle 26 \rangle (80[13]\langle 26 \rangle \langle 13 \rangle [23]^2 \langle 23 \rangle^2 \dots \langle 19 \text{ terms} \rangle \dots -34\langle 12 \rangle \langle 14 \rangle^2 \langle 26 \rangle [12][14]^2)}{\langle 12 \rangle [56]\langle 2 \rangle [5+6]2 \langle 2 \rangle [1+4]3^2 \langle 2 \rangle [1+3]4} + \\
& \frac{\langle 26 \rangle^2 (92/3 \langle 14 \rangle^2 [24][14][13] \dots \langle 6 \text{ terms} \rangle \dots -59[13][23]^2 \langle 23 \rangle \langle 13 \rangle)}{\langle 12 \rangle [34]\langle 56 \rangle \langle 2 \rangle [5+6]2 \langle 2 \rangle [1+4]3^2} + \\
& \frac{\langle 26 \rangle (-280/3 [13]\langle 46 \rangle \langle 13 \rangle [23]\langle 23 \rangle \dots \langle 24 \text{ terms} \rangle \dots +51[13]\langle 14 \rangle \langle 26 \rangle [12]\langle 13 \rangle)}{\langle 12 \rangle \langle 56 \rangle \langle 2 \rangle [5+6]2 \langle 2 \rangle [1+4]3^2} + \\
& \frac{[23][12]\langle 26 \rangle^2 (35/3 \langle 12 \rangle [12]+194/3 [24]\langle 24 \rangle -7[23]\langle 23 \rangle)}{[34]\langle 56 \rangle \langle 2 \rangle [5+6]2 \langle 2 \rangle [1+4]3^2} + \\
& \frac{[45]\langle 40 \rangle \langle 34 \rangle [12][34]^2 \langle 24 \rangle [35]\langle 23 \rangle \dots \langle 9 \text{ terms} \rangle \dots +6[13]^2 \langle 24 \rangle [45]\langle 13 \rangle [23]\langle 23 \rangle}{\langle 12 \rangle [13][34][56]\langle 2 \rangle [5+6]2 \langle 2 \rangle [1+4]3 \langle 2 \rangle [1+3]4} + \\
& \frac{-251/3 [24]\langle 14 \rangle^2 [14]^2 \langle 26 \rangle^2}{\langle 12 \rangle [34]\langle 56 \rangle \langle 2 \rangle [5+6]2 \langle 2 \rangle [1+4]3 \langle 2 \rangle [1+3]4} + \\
& \frac{\langle 46 \rangle (88/3 [12][34]^2 \langle 24 \rangle \langle 36 \rangle \langle 23 \rangle \dots \langle 8 \text{ terms} \rangle \dots +8\langle 26 \rangle \langle 12 \rangle^2 [14][12]^2)}{\langle 12 \rangle [13]\langle 56 \rangle \langle 2 \rangle [5+6]2 \langle 2 \rangle [1+4]3 \langle 2 \rangle [1+3]4} + \\
& \frac{\langle 36 \rangle (-25/3 \langle 12 \rangle [13]\langle 36 \rangle [23]\langle 23 \rangle -23\langle 36 \rangle \langle 12 \rangle^2 [12][13] -68/3 \langle 14 \rangle^2 [14]^2 \langle 26 \rangle)}{\langle 12 \rangle \langle 56 \rangle \langle 2 \rangle [5+6]2 \langle 2 \rangle [1+4]3 \langle 2 \rangle [1+3]4} + \\
& \frac{\langle 46 \rangle (45\langle 12 \rangle [12][13]\langle 16 \rangle [14] \dots \langle 6 \text{ terms} \rangle \dots +200/3 \langle 26 \rangle [12][34][13]\langle 13 \rangle)}{\langle 12 \rangle [13][34]\langle 56 \rangle \langle 2 \rangle [5+6]2 \langle 2 \rangle [1+4]3} + \\
& \frac{[35][14](-314/3 [24]\langle 24 \rangle \langle 34 \rangle [35] -461/3 [25]\langle 24 \rangle \langle 13 \rangle [13] +68/3 \langle 14 \rangle \langle 34 \rangle [35][14])}{\langle 12 \rangle [13][34][56]\langle 2 \rangle [5+6]2 \langle 2 \rangle [1+4]3} + \\
& \frac{\langle 16 \rangle [12]\langle 26 \rangle (-130/3 \langle 12 \rangle [12] -199/3 \langle 13 \rangle [13] +635/3 [14]\langle 14 \rangle)}{\langle 12 \rangle [34]\langle 56 \rangle \langle 2 \rangle [5+6]2 \langle 2 \rangle [1+4]3} + \\
& \frac{[25][45](-476/3 [24][14]\langle 14 \rangle -62/3 \langle 12 \rangle \langle 34 \rangle [13] -97\langle 24 \rangle \langle 12 \rangle [12])}{\langle 12 \rangle [34][56]\langle 2 \rangle [5+6]2 \langle 2 \rangle [1+4]3} + \\
& \frac{-18\langle 16 \rangle \langle 36 \rangle [12][13]}{[34]\langle 56 \rangle \langle 2 \rangle [5+6]2 \langle 2 \rangle [1+4]3} + \\
& \frac{[45][14](40/3 \langle 12 \rangle [24]\langle 34 \rangle \langle 24 \rangle [45] \dots \langle 4 \text{ terms} \rangle \dots -80/3 \langle 12 \rangle [25][13]\langle 13 \rangle \langle 23 \rangle)}{\langle 12 \rangle [34][56]\langle 2 \rangle [5+6]2 \langle 2 \rangle [1+3]4^2} + \\
& \frac{\langle 23 \rangle [45](-109/3 \langle 12 \rangle [24][12][35]\langle 23 \rangle -12\langle 12 \rangle^2 [45][12]^2 -73/3 [24][23]\langle 23 \rangle^2 [35])}{\langle 12 \rangle [34][56]\langle 2 \rangle [5+6]2 \langle 2 \rangle [1+3]4^2} + \\
& \frac{1[25][12][45]\langle 13 \rangle \langle 23 \rangle \langle 2 \rangle [1+4]3}{\langle 12 \rangle [34][56]\langle 2 \rangle [1+3]2 \langle 2 \rangle [5+6]2 \langle 2 \rangle [1+3]4} + \\
& \frac{\langle 46 \rangle (-1012/3 [24]^2 \langle 26 \rangle \langle 23 \rangle [13] \dots \langle 9 \text{ terms} \rangle \dots +8\langle 46 \rangle [34]\langle 13 \rangle [14]^2)}{\langle 12 \rangle [13][34]\langle 56 \rangle \langle 2 \rangle [5+6]2 \langle 2 \rangle [1+3]4} + \\
& \frac{\langle 36 \rangle (109/3 \langle 12 \rangle [12][13]\langle 16 \rangle [14] \dots \langle 5 \text{ terms} \rangle \dots -92/3 \langle 14 \rangle [12][34]\langle 26 \rangle [14])}{\langle 12 \rangle [13][34]\langle 56 \rangle \langle 2 \rangle [5+6]2 \langle 2 \rangle [1+3]4} + \\
& \frac{\langle 16 \rangle [14][12]\langle 26 \rangle (91\langle 12 \rangle [12] -158\langle 13 \rangle [13])}{\langle 12 \rangle [13][34]\langle 56 \rangle \langle 2 \rangle [5+6]2 \langle 2 \rangle [1+3]4} + \\
& \frac{[45](-32/3 [24]\langle 34 \rangle [13]\langle 24 \rangle [45] \dots \langle 8 \text{ terms} \rangle \dots +40\langle 34 \rangle [12][34][35]\langle 23 \rangle)}{\langle 12 \rangle [13][34][56]\langle 2 \rangle [5+6]2 \langle 2 \rangle [1+3]4} + \\
& \frac{\langle 13 \rangle [14][35]\langle 266/3 \rangle [25]\langle 23 \rangle [13] -8\langle 34 \rangle [35][14]}{\langle 12 \rangle [13][34][56]\langle 2 \rangle [5+6]2 \langle 2 \rangle [1+3]4} + \\
& \frac{[25]\langle 23 \rangle (1\langle 14 \rangle [45][12] -1\langle 13 \rangle [35][12] -1[23][45]\langle 34 \rangle)}{\langle 12 \rangle [34][56]\langle 2 \rangle [1+3]2 \langle 2 \rangle [5+6]2} + \\
& \frac{\langle 46 \rangle (-72[24]\langle 36 \rangle [13] \dots \langle 3 \text{ terms} \rangle \dots -131/3 \langle 16 \rangle [12][14])}{\langle 12 \rangle [13][34]\langle 56 \rangle \langle 2 \rangle [5+6]2} + \\
& \frac{\langle 36 \rangle (-166\langle 36 \rangle [23][13] -69\langle 26 \rangle [23][12] +116\langle 16 \rangle [12][13])}{\langle 12 \rangle [13][34]\langle 56 \rangle \langle 2 \rangle [5+6]2} + \\
& \frac{67\langle 16 \rangle \langle 26 \rangle [12]^2}{\langle 12 \rangle [13][34]\langle 56 \rangle \langle 2 \rangle [5+6]2} + \\
& \frac{[45](-826/3 [25]\langle 34 \rangle [13] -215/3 \langle 34 \rangle [35][12] -42[25]\langle 24 \rangle [12])}{\langle 12 \rangle [13][34][56]\langle 2 \rangle [5+6]2} + \\
& \frac{[25][35](-308/3 \langle 34 \rangle [14] -99\langle 23 \rangle [12])}{\langle 12 \rangle [13][34][56]\langle 2 \rangle [5+6]2} + \\
& \frac{[25]\langle 379/3 \rangle [15]\langle 13 \rangle [13] +32[25]\langle 24 \rangle [14]}{\langle 12 \rangle [13][34][56]\langle 2 \rangle [5+6]2} + \\
& \frac{\langle 24 \rangle [35]^2 (-42[24]\langle 24 \rangle \langle 23 \rangle -30\langle 24 \rangle [14]\langle 13 \rangle +42[34]\langle 23 \rangle \langle 34 \rangle +42[13]\langle 23 \rangle \langle 13 \rangle)}{\langle 12 \rangle [56]\langle 2 \rangle [1+4]3^3} + \\
& \frac{\langle 24 \rangle [35]^2 [14](-18[24]\langle 24 \rangle +42\langle 12 \rangle [12])}{[34][56]\langle 2 \rangle [1+4]3^3} + \\
& \frac{\langle 24 \rangle [35]^2 (-42\langle 34 \rangle [14] -42\langle 23 \rangle [12])}{[56]\langle 2 \rangle [1+4]3^3} + \\
& \frac{[45](-80/3 \langle 12 \rangle \langle 34 \rangle [45][13]^2 \dots \langle 5 \text{ terms} \rangle \dots -200/3 \langle 23 \rangle \langle 13 \rangle [35][13]^2)}{\langle 12 \rangle [13][34][56]\langle 2 \rangle [1+4]3 \langle 2 \rangle [1+3]4} + \\
& \frac{[35]\langle 23 \rangle [14](8[34]\langle 34 \rangle [35] -266/3 [25]\langle 12 \rangle [13])}{\langle 12 \rangle [13][34][56]\langle 2 \rangle [1+4]3 \langle 2 \rangle [1+3]4} + \\
& \frac{\langle 26 \rangle (-27\langle 16 \rangle \langle 13 \rangle [14][13] \dots \langle 4 \text{ terms} \rangle \dots +433/3 [24]\langle 26 \rangle \langle 13 \rangle [13])}{\langle 12 \rangle [34]\langle 56 \rangle \langle 2 \rangle [1+4]3 \langle 2 \rangle [1+3]4} + \\
& \frac{\langle 46 \rangle (1009/6 [34]\langle 23 \rangle \langle 26 \rangle [12] \dots \langle 3 \text{ terms} \rangle \dots +1871/3 \langle 26 \rangle \langle 13 \rangle [14][13])}{\langle 12 \rangle [13]\langle 56 \rangle \langle 2 \rangle [1+4]3 \langle 2 \rangle [1+3]4} + \\
& \frac{\langle 26 \rangle \langle 36 \rangle (-1769/6 [34]\langle 24 \rangle [12] +436\langle 13 \rangle [13]^2)}{\langle 12 \rangle [13]\langle 56 \rangle \langle 2 \rangle [1+4]3 \langle 2 \rangle [1+3]4} + \\
& \frac{7[13]\langle 26 \rangle [35]\langle 13 \rangle +32/3 \langle 14 \rangle \langle 26 \rangle [45][13] +56/3 \langle 46 \rangle [34]\langle 23 \rangle [35]}{\langle 12 \rangle^2 [13][34]\langle 2 \rangle [1+4]3} + \\
& \frac{-28/3 [13]\langle 26 \rangle \langle 16 \rangle \langle 13 \rangle}{\langle 12 \rangle^2 [34]\langle 56 \rangle \langle 2 \rangle [1+4]3} + \\
& \frac{-32/3 \langle 24 \rangle [45]^2 \langle 14 \rangle}{\langle 12 \rangle^2 [34][56]\langle 2 \rangle [1+4]3} + \\
& \frac{\langle 46 \rangle \langle 23 \rangle (28/3 \langle 46 \rangle [34] -56/3 [23]\langle 26 \rangle)}{\langle 12 \rangle^2 [13]\langle 56 \rangle \langle 2 \rangle [1+4]3} + \\
& \frac{[24]\langle 26 \rangle (7/3 [23]\langle 26 \rangle -8/3 \langle 16 \rangle [13])}{\langle 12 \rangle [34]^2 \langle 56 \rangle \langle 2 \rangle [1+4]3} + \\
& \frac{[35][45](-7/3 [24]\langle 24 \rangle -8/3 [23]\langle 23 \rangle -1\langle 12 \rangle [12])}{\langle 12 \rangle [34]^2 [56]\langle 2 \rangle [1+4]3} + \\
& \frac{\langle 16 \rangle [24](-2\langle 14 \rangle \langle 26 \rangle [13] -1\langle 24 \rangle [23]\langle 26 \rangle +1\langle 46 \rangle \langle 12 \rangle [13])}{\langle 12 \rangle [34]\langle 56 \rangle \langle 1 \rangle [2+4]3 \langle 2 \rangle [1+4]3} + \\
& \frac{1[24]\langle 24 \rangle [35]^2 \langle 13 \rangle}{\langle 12 \rangle [34][56]\langle 1 \rangle [2+4]3 \langle 2 \rangle [1+4]3} + \\
& \frac{\langle 24 \rangle [35]^2 [12](-7/2 \langle 12 \rangle [12] -1[24]\langle 24 \rangle)}{\langle 12 \rangle [13][34][56]\langle 2 \rangle [1+4]3 \langle 4 \rangle [1+2]3} + \\
& \frac{\langle 46 \rangle (-241\langle 16 \rangle [13][14] \dots \langle 3 \text{ terms} \rangle \dots -64/3 [34]\langle 26 \rangle [12])}{\langle 12 \rangle [13][34]\langle 56 \rangle \langle 2 \rangle [1+4]3} + \\
& \frac{[12]\langle 26 \rangle (53/6 [23]\langle 26 \rangle +283/6 \langle 16 \rangle [13])}{\langle 12 \rangle [13][34]\langle 56 \rangle \langle 2 \rangle [1+4]3} + \\
& \frac{[45]\langle 469/3 \rangle [15]\langle 14 \rangle [13] +403\langle 34 \rangle [35][13] -17/6 \langle 24 \rangle [35][12]}{\langle 12 \rangle [13][34][56]\langle 2 \rangle [1+4]3} + \\
& \frac{[35](-491/3 \langle 34 \rangle [35][14] -53/6 \langle 23 \rangle [35][12] +499/3 [15]\langle 13 \rangle [13])}{\langle 12 \rangle [13][34][56]\langle 2 \rangle [1+4]3} + \\
& \frac{\langle 36 \rangle (137/3 [23]\langle 26 \rangle -712/3 \langle 16 \rangle [13])}{\langle 12 \rangle [34]\langle 56 \rangle \langle 2 \rangle [1+4]3} + \\
& \frac{[45][14](76/3 \langle 24 \rangle [45]\langle 13 \rangle \dots \langle 3 \text{ terms} \rangle \dots +9[15]\langle 12 \rangle \langle 13 \rangle)}{\langle 12 \rangle [34][56]\langle 2 \rangle [1+3]4^2} + \\
& \frac{\langle 23 \rangle [45](62/3 [24]\langle 23 \rangle [35] +80/3 \langle 12 \rangle [45][12])}{\langle 12 \rangle [34][56]\langle 2 \rangle [1+3]4^2} + \\
& \frac{[14]\langle 34 \rangle \langle 26 \rangle (-1\langle 16 \rangle [14][13] -3[34]\langle 36 \rangle [13] -3\langle 46 \rangle [34][14])}{\langle 12 \rangle [13][34]\langle 56 \rangle \langle 2 \rangle [3+4]1 \langle 2 \rangle [1+3]4} + \\
& \frac{\langle 23 \rangle [25](-1[24]\langle 23 \rangle [35] +1[23]\langle 23 \rangle [45] -1[35][14]\langle 13 \rangle)}{\langle 12 \rangle [34][56]\langle 2 \rangle [1+3]2 \langle 2 \rangle [1+3]4} + \\
& \frac{[14]\langle 46 \rangle (1621/6 \langle 36 \rangle [34] -126[24]\langle 26 \rangle +436/3 \langle 16 \rangle [14])}{\langle 12 \rangle [13][34]\langle 56 \rangle \langle 2 \rangle [1+3]4} + \\
& \frac{\langle 36 \rangle (586\langle 16 \rangle [13][14] +843/2 \langle 36 \rangle [34][13] +539/3 [24]\langle 26 \rangle [13] -377/3 [34]\langle 26 \rangle [12])}{\langle 12 \rangle [13][34]\langle 56 \rangle \langle 2 \rangle [1+3]4} + \\
& \frac{[12]\langle 26 \rangle (38[24]\langle 26 \rangle +8\langle 16 \rangle [14])}{\langle 12 \rangle [13][34]\langle 56 \rangle \langle 2 \rangle [1+3]4} + \\
& \frac{[45](-4037/6 \langle 34 \rangle [45][13] \dots \langle 3 \text{ terms} \rangle \dots +25/3 [15]\langle 13 \rangle [13])}{\langle 12 \rangle [13][34][56]\langle 2 \rangle [1+3]4} + \\
& \frac{-1[15]\langle 23 \rangle \langle 34 \rangle [45]}{\langle 12 \rangle [56]\langle 2 \rangle [3+4]1 \langle 2 \rangle [1+3]4} + \\
& \frac{[12]\langle 26 \rangle (3[34]\langle 36 \rangle [13] +3\langle 46 \rangle [34][14] +1\langle 16 \rangle [14][13])}{\langle 12 \rangle [13][34]^2 \langle 56 \rangle \langle 2 \rangle [3+4]1} + \\
& \frac{[15](1[25]\langle 12 \rangle [14][13] \dots \langle 3 \text{ terms} \rangle \dots -2[13][35][14]\langle 13 \rangle)}{\langle 12 \rangle [13][34]^2 [56]\langle 2 \rangle [3+4]1} + \\
& \frac{[15]\langle 34 \rangle (4[45][13] -3[35][14])}{\langle 12 \rangle [13][34][56]\langle 2 \rangle [3+4]1} + \\
& \frac{-1\langle 16 \rangle \langle 46 \rangle [24]}{\langle 12 \rangle [34]\langle 56 \rangle \langle 1 \rangle [2+4]3} + \\
& \frac{7/2 \langle 4 \rangle [1+2]5 [35][12]}{\langle 12 \rangle [13][34][56]\langle 4 \rangle [1+2]3}
\end{aligned}$$