

$$\begin{aligned}
& \frac{5(13)\langle 25 \rangle \langle 46 \rangle (31+24)}{(12)\langle 56 \rangle [56](12+34)s_{123}} + \\
& \frac{4(13)\langle 46 \rangle (31+25)}{(12)^2 \langle 56 \rangle [56]s_{123}} + \\
& \frac{5[12](13)^2[15]\langle 46 \rangle}{(12)\langle 56 \rangle [56](12+31)s_{123}} + \\
& \frac{-3[13]\langle 24 \rangle \langle 26 \rangle [35]\langle 31+42 \rangle (s_{124}-s_{134})}{(21+43)^3 \Delta_{14|23|56}} + \\
& \frac{5/2[13]\langle 24 \rangle \langle 26 \rangle [35]\langle 31+42 \rangle^2 (s_{134}-s_{124})}{\langle 21+43 \rangle^2 \Delta_{14|23|56}} + \\
& \frac{1[13]\langle 26 \rangle \langle 34 \rangle [35]\langle 31+42 \rangle}{(21+43)^2 \Delta_{14|23|56}} + \\
& \frac{1(24)[24]\langle 26 \rangle [35]\langle 31+42 \rangle (s_{13}-s_{24})}{(12+34)(21+43)^2 \Delta_{14|23|56}} + \\
& \frac{(s_{124}-s_{134})[13]\langle 26 \rangle (s_{13}-s_{24})(-1/2(14)[24]\langle 36 \rangle +1/2(13)[24]\langle 46 \rangle -1/2(13)[23]\langle 36 \rangle +1/2[12](13)\langle 16 \rangle)}{(56)(12+34)(21+43)^2 \Delta_{14|23|56}} + \\
& \frac{[23](s_{124}-s_{134})\langle 26 \rangle (s_{13}-s_{24})(1/2(23)[24]\langle 46 \rangle +1/2[12](13)\langle 26 \rangle)}{(56)(12+34)(21+43)^2 \Delta_{14|23|56}} + \\
& \frac{[13]\langle 26 \rangle (s_{124}-s_{134})(-1/2[24]\langle 34 \rangle \langle 46 \rangle +1[23]\langle 34 \rangle \langle 36 \rangle +1/2[12](13)\langle 46 \rangle)}{(56)\langle 21+43 \rangle^2 \Delta_{14|23|56}} + \\
& \frac{1[12][23]\langle 24 \rangle \langle 26 \rangle \langle 36 \rangle (s_{124}-s_{134})}{(56)\langle 21+43 \rangle^2 \Delta_{14|23|56}} + \\
& \frac{1/2[13]\langle 23 \rangle [25]\langle 34 \rangle [35](s_{124}-s_{134})}{[56]\langle 21+43 \rangle^2 \Delta_{14|23|56}} + \\
& \frac{1/2[12]\langle 23 \rangle \langle 24 \rangle [25][35](s_{124}-s_{134})}{[56]\langle 21+43 \rangle^2 \Delta_{14|23|56}} + \\
& \frac{-4[23]\langle 26 \rangle \langle 36 \rangle (s_{13}-s_{24})}{(56)(12+34)\langle 21+43 \rangle^2} + \\
& \frac{-6(23)[25][35](s_{13}-s_{24})}{[56](12+34)\langle 21+43 \rangle^2} + \\
& \frac{-35/32(23)[23]\langle 31+42 \rangle \langle 42+31 \rangle \langle 61+45 \rangle (s_{134}+s_{124})(s_{134}-s_{124})}{\langle 21+43 \rangle \Delta_{14|23|56}^3} + \\
& \frac{-7/16(13)[23]\langle 26 \rangle [45]\langle 31+42 \rangle \langle 42+31 \rangle (s_{134}-s_{124})}{(12+34)\langle 21+43 \rangle \Delta_{14|23|56}^2} + \\
& \frac{-7/16(13)[23]\langle 36 \rangle [45]\langle 42+31 \rangle (s_{13}-s_{24})(s_{134}-s_{124})}{(12+34)\langle 21+43 \rangle \Delta_{14|23|56}^2} + \\
& \frac{\langle 24 \rangle \langle 31+42 \rangle^2 (-35/8[13][35]\langle 36 \rangle +35/8[12]\langle 26 \rangle [35] +35/8[13][25]\langle 26 \rangle)}{\langle 21+43 \rangle \Delta_{14|23|56}^2} + \\
& \frac{-15/4[13]\langle 26 \rangle \langle 34 \rangle [35]\langle 31+42 \rangle^2}{\langle 21+43 \rangle \Delta_{14|23|56}^2} + \\
& \frac{5/16(24)[24]\langle 26 \rangle [35]\langle 31+42 \rangle^2 (s_{123}-s_{234})}{(12+34)\langle 21+43 \rangle \Delta_{14|23|56}^2} + \\
& \frac{-1/32[23]\langle 46 \rangle (s_{123}-s_{234})\langle 31+45 \rangle (s_{124}-s_{134})\langle 13 \rangle (s_{23}-s_{56})}{(14)\langle 12+34 \rangle \langle 21+43 \rangle \Delta_{14|23|56}^2} + \\
& \frac{-1/32[12](s_{123}-s_{234})\langle 23 \rangle [24](s_{124}-s_{134})\langle 61+45 \rangle (s_{23}-s_{56})}{[14]\langle 12+34 \rangle \langle 21+43 \rangle \Delta_{14|23|56}^2} + \\
& \frac{-3/32[23]\langle 36 \rangle \langle 46 \rangle \langle 31+24 \rangle (s_{123}-s_{234})(s_{14}-s_{23})(s_{124}-s_{134})}{\langle 56 \rangle \langle 12+34 \rangle \langle 21+43 \rangle \Delta_{14|23|56}^2} + \\
& \frac{3/32[45](s_{123}-s_{234})\langle 41+65 \rangle \langle 34 \rangle [24](s_{14}-s_{23})(s_{124}-s_{134})}{[56]\langle 12+34 \rangle \langle 21+43 \rangle \Delta_{14|23|56}^2} + \\
& \frac{-3/32[12](13)[15][45](s_{123}-s_{234})\langle 14 \rangle (s_{14}-s_{23})(s_{124}-s_{134})}{[56]\langle 12+34 \rangle \langle 21+43 \rangle \Delta_{14|23|56}^2} + \\
& \frac{\langle 31+42 \rangle (s_{124}-s_{134})(-1/8[12]\langle 23 \rangle [35]\langle 46 \rangle \dots \langle 11 \text{ terms} \rangle \dots +11/16[14]\langle 24 \rangle [25]\langle 46 \rangle)}{\langle 21+43 \rangle \Delta_{14|23|56}^2} + \\
& \frac{\langle 31+42 \rangle (s_{123}-s_{234})(s_{124}-s_{134})(11/16(14)[14][15]\langle 16 \rangle \dots \langle 15 \text{ terms} \rangle \dots +1/4\langle 23 \rangle [23][25]\langle 26 \rangle)}{(12+34)\langle 21+43 \rangle \Delta_{14|23|56}^2} + \\
& \frac{(s_{124}-s_{134})(-25/16[12]\langle 23 \rangle [24]\langle 34 \rangle [35]\langle 46 \rangle \dots \langle 23 \text{ terms} \rangle \dots +5/16[13][23]\langle 34 \rangle^2 \langle 36 \rangle [45])}{\langle 21+43 \rangle \Delta_{14|23|56}^2} + \\
& \frac{(s_{123}-s_{234})(s_{124}-s_{134})(-1/8(13)[13]\langle 14 \rangle [14][25]\langle 36 \rangle \dots \langle 13 \text{ terms} \rangle \dots -3/32[12](13)\langle 23 \rangle [23][45]\langle 46 \rangle)}{(12+34)\langle 21+43 \rangle \Delta_{14|23|56}^2} + \\
& \frac{-1/2(13)[23]\langle 26 \rangle [45]\langle 31+42 \rangle (s_{13}-s_{24})}{(12+34)^2 \langle 21+43 \rangle \Delta_{14|23|56}} + \\
& \frac{1/2[12](13)[24]\langle 26 \rangle [45](s_{123}-s_{234})(s_{13}-s_{24})}{[14](12+34)^2 \langle 21+43 \rangle \Delta_{14|23|56}} + \\
& \frac{1/4(13)[23]\langle 46 \rangle \langle 31+43 \rangle \langle 31+45 \rangle}{(14)\langle 12+34 \rangle \langle 21+43 \rangle \Delta_{14|23|56}} + \\
& \frac{-1/2(13)^2[15][23]\langle 46 \rangle \langle 31+43 \rangle}{(14)\langle 12+34 \rangle \langle 21+43 \rangle \Delta_{14|23|56}} + \\
& \frac{1/4(13)[14][23]\langle 34 \rangle \langle 46 \rangle \langle 12+35 \rangle}{(14)\langle 12+34 \rangle \langle 21+43 \rangle \Delta_{14|23|56}} + \\
& \frac{(s_{23}-s_{56})(5/8[12]^2(13)\langle 14 \rangle \langle 26 \rangle [45] \dots \langle 16 \text{ terms} \rangle \dots +1/8(24)[24]^2 \langle 34 \rangle [45]\langle 46 \rangle)}{(14)[14](12+34)\langle 21+43 \rangle \Delta_{14|23|56}} + \\
& \frac{\langle 13 \rangle (s_{23}-s_{56})(1/4(24)[24][25]\langle 46 \rangle \dots \langle 3 \text{ terms} \rangle \dots -1/8[24]\langle 34 \rangle [35]\langle 46 \rangle)}{(14)\langle 12+34 \rangle \langle 21+43 \rangle \Delta_{14|23|56}} + \\
& \frac{[24][12](1/2(23)\langle 34 \rangle [34][35]\langle 36 \rangle \dots \langle 11 \text{ terms} \rangle \dots -1/4\langle 23 \rangle \langle 24 \rangle [24][45]\langle 46 \rangle)}{[14]\langle 12+34 \rangle \langle 21+43 \rangle \Delta_{14|23|56}} + \\
& \frac{\langle 36 \rangle (9/4(24)^2[24]^3 \langle 46 \rangle \dots \langle 17 \text{ terms} \rangle \dots +1(12)^2[12]^2[23]\langle 36 \rangle)}{\langle 56 \rangle \langle 12+34 \rangle \langle 21+43 \rangle \Delta_{14|23|56}} + \\
& \frac{[45]\langle 3/2(24)[24]^2 \langle 34 \rangle^2 [35] \dots \langle 9 \text{ terms} \rangle \dots +3/4[12]^2(13)\langle 14 \rangle \langle 24 \rangle [45]}{[56]\langle 12+34 \rangle \langle 21+43 \rangle \Delta_{14|23|56}} + \\
& \frac{-1/8(14)^2[14]^2[25]\langle 36 \rangle \dots \langle 54 \text{ terms} \rangle \dots -1/2(13)[13]\langle 23 \rangle [23][25]\langle 36 \rangle}{(12+34)\langle 21+43 \rangle \Delta_{14|23|56}} + \\
& \frac{(s_{14}-s_{23})(-1/8(14)^2[14]^2[25]\langle 36 \rangle \dots \langle 32 \text{ terms} \rangle \dots -9/8(12)[12]^2(13)[35]\langle 36 \rangle)}{(56)[56](12+34)\langle 21+43 \rangle \Delta_{14|23|56}} + \\
& \frac{1/2(23)[24][35]\langle 36 \rangle +1/2(23)[24][25]\langle 26 \rangle +1/2(23)[24][45]\langle 46 \rangle -5/2[12](13)\langle 26 \rangle [45]}{(12)[14](12+34)\langle 21+43 \rangle} + \\
& \frac{-2(13)^2[13][35]\langle 36 \rangle \dots \langle 22 \text{ terms} \rangle \dots +2(14)\langle 24 \rangle [24]\langle 36 \rangle [45]}{(12)\langle 56 \rangle [56](12+34)\langle 21+43 \rangle} + \\
& \frac{-1/2(13)[13][25]\langle 36 \rangle \dots \langle 4 \text{ terms} \rangle \dots +1/2(24)[24][25]\langle 36 \rangle}{(14)[14](12+34)\langle 21+43 \rangle} + \\
& \frac{-2(14)[35]\langle 36 \rangle (15+61)}{(12)\langle 56 \rangle [56](12+43)\langle 21+43 \rangle} + \\
& \frac{[45](2[12](13)\langle 24 \rangle \langle 26 \rangle \dots \langle 3 \text{ terms} \rangle \dots +2(12)[12]\langle 23 \rangle \langle 46 \rangle)}{(12)\langle 56 \rangle [56]\langle 21+43 \rangle \langle 21+34 \rangle} + \\
& \frac{-21/8(14)[15]\langle 36 \rangle \dots \langle 3 \text{ terms} \rangle \dots -1(34)[45]\langle 46 \rangle}{(12)\langle 56 \rangle [56]\langle 21+43 \rangle} + \\
& \frac{1/2(13)[23]\langle 36 \rangle [45]\langle 31+42 \rangle}{(12+34)^2 \Delta_{14|23|56}} + \\
& \frac{-1/2[12](13)[24]\langle 36 \rangle [45](s_{123}-s_{234})}{[14]\langle 12+34 \rangle^2 \Delta_{14|23|56}} + \\
& \frac{\langle 13 \rangle \langle 5(13)\langle 24 \rangle [24][45]\langle 46 \rangle \dots \langle 12 \text{ terms} \rangle \dots +1(12)\langle 23 \rangle [23][25]\langle 36 \rangle)}{(12)^2 \langle 56 \rangle [56](12+31)\langle 12+34 \rangle} + \\
& \frac{\langle 13 \rangle (-3(14)\langle 36 \rangle [45]-9(13)[25]\langle 26 \rangle -7(13)[45]\langle 46 \rangle -7(13)[15]\langle 16 \rangle)}{(12)^2 \langle 56 \rangle [56](12+34)} + \\
& \frac{3[12](13)^2[15]\langle 16 \rangle}{(12)\langle 14 \rangle [14](15+61)\langle 12+34 \rangle} + \\
& \frac{2[12]\langle 13 \rangle \langle 16 \rangle [45]}{(12)[14](12+43)\langle 12+34 \rangle} + \\
& \frac{-2[12](13)\langle 16 \rangle^2}{(12)\langle 56 \rangle \langle 12+43 \rangle \langle 12+34 \rangle} + \\
& \frac{1(12)[24][25]\langle 34 \rangle \langle 36 \rangle \dots \langle 5 \text{ terms} \rangle \dots -1[12]\langle 13 \rangle^2 [35]\langle 36 \rangle}{(12)\langle 14 \rangle [14](12+31)\langle 12+34 \rangle} + \\
& \frac{\langle 36 \rangle (1(23)[24][25]-1[12]\langle 13 \rangle [45])}{(12)[14](12+31)\langle 12+34 \rangle} + \\
& \frac{107/8(13)\langle 25 \rangle \langle 36 \rangle}{(12)\langle 56 \rangle [56]\langle 12+34 \rangle} + \\
& \frac{-2(14)\langle 16 \rangle \langle 31+45 \rangle}{(12)^2 \langle 56 \rangle [56]\langle 12+43 \rangle} + \\
& \frac{\langle 13 \rangle \langle 5(13)[15]\langle 46 \rangle +1(23)[25]\langle 46 \rangle -1(24)[25]\langle 36 \rangle -1(34)[45]\langle 46 \rangle)}{(12)^2 \langle 56 \rangle [56](12+31)} + \\
& \frac{2[12]\langle 13 \rangle [15]\langle 16 \rangle}{(12)[14](15+61)\langle 12+43 \rangle} + \\
& \frac{-2(16)[25]\langle 34 \rangle}{(12)\langle 56 \rangle [56]\langle 12+43 \rangle}
\end{aligned}$$