

ES. 1

$$\begin{aligned}
 & 3,6 \cdot 0,7 + 2,7 : 0,8\bar{3} - 0,9\bar{3} = \\
 & = \frac{36}{10} \cdot \frac{7}{10} + \left(\frac{27}{9}\right) : \left(\frac{83-8}{90}\right) - \left(\frac{93-9}{90}\right) = \\
 & = \frac{252}{100} + \frac{19}{9} : \frac{75}{90} - \frac{84}{90} = \\
 & = \frac{2}{5} + \frac{19}{9} \cdot \frac{30}{75} - \frac{14}{15} = \frac{2}{5} + \frac{19}{9} \cdot \frac{2}{5} - \frac{14}{15} = \frac{2}{5} + \frac{38}{45} - \frac{14}{15} = \frac{24}{45} + \frac{38}{45} - \frac{42}{45} = \frac{20}{45} = \frac{4}{9}
 \end{aligned}$$

ES2

$$\begin{aligned}
 & \left\{ \frac{2}{3} - \left[\left(\frac{1}{2^3} + \frac{1}{2^2} \right) \cdot \frac{2}{3} \right] \right\} \cdot \left[3 + \left(\frac{1}{3} \right)^4 \cdot \left(\frac{1}{3} \right)^3 \right] + \left[\left(\frac{1}{3} \right)^0 + \left(\frac{1}{3} \right)^6 \cdot \left(\frac{1}{3} \right)^4 \right] \cdot \left(\frac{1}{2} \right)^3 = \\
 & = \left\{ \frac{2}{3} - \left[\left(\frac{1}{8} + \frac{1}{4} \right) \cdot \frac{2}{3} \right] \right\} \cdot \left[3 + \left(\frac{1}{3} \right)^1 \right] + \left[1 + \left(\frac{1}{3} \right)^1 \right] \cdot \left(\frac{1}{2} \right)^3 = \\
 & = \left\{ \frac{2}{3} - \left[\left(\frac{1+2}{8} \right) \cdot \frac{2}{3} \right] \right\} \cdot \left[\frac{9+1}{3} \right] + \left[\frac{3+1}{3} \right] \cdot \left(\frac{1}{2} \right)^3 = \\
 & = \left\{ \frac{2}{3} - \left[\frac{3}{4} \right] \right\} \cdot \frac{10}{3} + \frac{4}{3} \cdot \left(\frac{1}{2} \right)^3 = \\
 & = \left\{ \frac{2}{3} - \frac{1}{4} \right\} \cdot \frac{10}{3} + \frac{4}{3} \cdot \frac{1}{8} = \left\{ \frac{8-3}{12} \right\} \cdot \frac{10}{3} + \frac{1}{6} = \frac{1}{4} \cdot \frac{10}{3} + \frac{1}{6} = \\
 & = \frac{1}{8} + \frac{1}{6} = \frac{3+4}{24} = \frac{7}{24}
 \end{aligned}$$

$$\begin{aligned}
& \left[\left(\frac{1}{6} - \frac{1}{3} - \frac{3}{4} + 1 \right)^{-2} : \left(\frac{1}{2} - \frac{1}{3} \right)^{-3} \right] \cdot \left[\left(\frac{4}{13} \right)^2 : \left(\frac{3}{4} + \frac{5}{2} \right)^{-2} \right]^{-1} \\
&= \left[\left(\frac{2-4-9+12}{12} \right)^{-2} : \left(\frac{3-2}{6} \right)^{-3} \right] \cdot \left[\left(\frac{4}{13} \right)^2 : \left(\frac{3+10}{4} \right)^{-2} \right]^{-1} \\
&= \left[\left(\frac{1}{12} \right)^{-2} : \left(\frac{1}{6} \right)^{-3} \right] \cdot \left[\left(\frac{4}{13} \right)^2 : \left(\frac{13}{4} \right)^{-2} \right]^{-1} = 6^2 \cdot 6^3 \cdot 6^{-1} = 6 \cdot \frac{1}{6} \\
&= \left[\left(\frac{12}{1} \right)^2 : \left(\frac{6}{1} \right)^3 \right] \cdot \left[\left(\frac{4}{13} \right)^2 : \left(\frac{4}{13} \right)^2 \right]^{-1} = 12 = 2 \cdot 6 \\
&= \frac{(12)^2}{1} \cdot \frac{1}{6^3} = \frac{12^2}{6^3} = \frac{(2 \cdot 6)^2}{6^3} = \frac{2^2 \cdot \cancel{6^2}}{\cancel{6^3}} = \frac{2^2}{6^1} = \frac{4 \cdot 2}{6^1} = \frac{2}{3}
\end{aligned}$$