

$$\begin{aligned}
 1. \quad & 3,9r + 9\frac{2}{5}s - [(23,25s + 13,8r) - \\
 & \quad - (17\frac{3}{5}r - 6\frac{1}{4}s)] - 47\frac{1}{4}s = \\
 & = 3,9r + 9,4s - [23,25s + 13,8r - 17,6r + 6,25s] \\
 & \quad - 47,25s = \\
 & = 3,9r + 9,4s - 29,5s + 3,8r - 47,25s = \\
 & = 7,7r - 67,35s
 \end{aligned}$$

$$\begin{aligned}
 2. \quad & (-2a^2) \cdot (-2a)^2 \cdot (2(-b)^2) \cdot (-2b)^2 = \\
 & = -2a^2 \cdot 4a^2 \cdot 2b^2 \cdot 4b^2 = \\
 & = -64a^4b^4
 \end{aligned}$$

$$\begin{aligned}
 3. \quad & [(-\frac{1}{2})^3 + (\frac{1}{2})^2] \cdot [(\frac{1}{2})^3 - (-\frac{1}{2})^2] = \\
 & = [-\frac{1}{8} + \frac{1}{4}] \cdot [\frac{1}{8} - \frac{1}{4}] = \\
 & = \frac{1}{8} \cdot (-\frac{1}{8}) = -\frac{1}{64}
 \end{aligned}$$

$$\begin{aligned}
 4. \quad & (-\frac{1}{2} + \frac{1}{3}) : (-1\frac{1}{3}) = \\
 & -\frac{1}{6} : (-\frac{4}{3}) = -\frac{1}{6} \cdot (-\frac{3}{4}) = +\frac{1}{8}
 \end{aligned}$$

$$\begin{aligned}
 5. \quad & [(-90) : (-3)^2 + 5 \cdot 2^4 : (-2)^3] : (-5)^2 = \\
 & = [(-90) : 9 + 5 \cdot 16 : (-8)] : 25 = \\
 & = [-10 + 80 : (-8)] : 25 = \\
 & = [-10 - 10] : 25 = -20 : 25 = -\frac{20}{25} = -\frac{4}{5}
 \end{aligned}$$