

$$\sqrt{45 \cdot 10 \cdot 18} = \sqrt{8100} = 90$$

$$\sqrt{4 \frac{25}{36}} = \sqrt{\frac{169}{36}} = \sqrt{\frac{13}{6}} = 2 \frac{1}{6}$$

$$\begin{aligned} & (2\sqrt{6} - 4\sqrt{3} + 5\sqrt{2} - \frac{1}{4}\sqrt{8}) \cdot 3\sqrt{6} = \\ & = (2\sqrt{6} - 4\sqrt{3} + 5\sqrt{2} - \frac{\sqrt{2}}{2}) \cdot 3\sqrt{6} = \\ & = (2\sqrt{6} - 4\sqrt{3} + \frac{9\sqrt{2}}{2}) \cdot 3\sqrt{6} = \\ & = 36 - 12\sqrt{18} + \frac{24\sqrt{12}}{2} = \\ & = 36 - 36\sqrt{2} + \frac{24\sqrt{3}}{2} = \\ & = 36 - 36\sqrt{2} + 12\sqrt{3} \end{aligned}$$

$$\begin{aligned} & \sqrt{75x^3y^6} \quad y \leq 0 \\ & \sqrt{5^2 \cdot 3x^2 \cdot xy^6} = \sqrt{5^2} \cdot \sqrt{x^2} \cdot \sqrt{y^6} \cdot \sqrt{3x} = 5xy^3\sqrt{3x} \end{aligned}$$

$$-4\sqrt{5} = -\sqrt{16 \cdot 5} = -\sqrt{80}$$

$$\sqrt{21 \cdot 6 \cdot 4 \cdot 8} = \sqrt{4032} = 84$$

$$\sqrt{1 \frac{54}{64}} = \sqrt{\frac{121}{64}} = \frac{11}{8} = 1 \frac{3}{8}$$

$$\begin{aligned}
 & (\sqrt{6} - 3\sqrt{3} + 5\sqrt{2} - \frac{1}{2}\sqrt{8}) \cdot 2\sqrt{6} = \\
 & = (\sqrt{6} - 3\sqrt{3} + 5\sqrt{2} - \sqrt{2}) 2\sqrt{6} = \\
 & = (\sqrt{6} - 3\sqrt{3} + 4\sqrt{2}) 2\sqrt{6} = \\
 & = 12 - 6\sqrt{18} + 8\sqrt{12} = \\
 & = 12 - 18\sqrt{2} + 16\sqrt{3}
 \end{aligned}$$

$$\begin{aligned}
 & \sqrt{32a^3b^{10}} \quad b \leq 0 \\
 & \sqrt{4^2 \cdot 2a^2 \cdot ab^{10}} = \sqrt{4^2 a^2 \cdot b^{10} \cdot 2a} = 4ab^5\sqrt{2a}
 \end{aligned}$$

$$-6\sqrt{3} = -\sqrt{36 \cdot 3} = -\sqrt{108}$$

$$\begin{aligned}
 & \sqrt{63} - 3\sqrt{1,45} - 0,5\sqrt{343} + \sqrt{112} = \\
 & = 3\sqrt{7} - 3\sqrt{\frac{4}{4}} - \cancel{0,5} \frac{1}{2} \cdot 7\sqrt{7} + 4\sqrt{7} = \\
 & = 3\sqrt{7}^{(1,2)} - \frac{3\sqrt{7}}{2} - \frac{7}{2}\sqrt{7} + 4\sqrt{7}^{(1,2)} = \\
 & = \frac{6\sqrt{7} - 3\sqrt{7} - 7\sqrt{7} + 8\sqrt{7}}{2} = \frac{4\sqrt{7}}{2} = 2\sqrt{7}
 \end{aligned}$$

$$\begin{aligned}
 & (3\sqrt{5} - 2)(3\sqrt{5} - 1) = \\
 & = (3\sqrt{5})^2 - 3\sqrt{5} - 6\sqrt{5} - 2 \cdot (-1) = \\
 & = 45 - 3\sqrt{5} - 6\sqrt{5} + 2 = \\
 & = 47 - 9\sqrt{5}
 \end{aligned}$$

$$\sqrt{1152} = \sqrt{576 \cdot 2} = \sqrt{24^2 \cdot 2} = 24\sqrt{2}$$

$$\frac{\sqrt{-8c^4b^3}}{bc^3\sqrt{-8bc}} \quad c < 0 ; b > 0$$

