

R45

$$\begin{aligned} \boxed{9} \quad (1) \sqrt{10} \times \sqrt{6} \\ = \sqrt{2 \times 5 \times 2 \times 3} \\ = 2\sqrt{15} \end{aligned}$$

$$\begin{aligned} (2) \sqrt{30} \times (-\sqrt{33}) \\ = -\sqrt{3 \times 10 \times 3 \times 11} \\ = -3\sqrt{110} \end{aligned}$$

$$\begin{aligned} (3) \sqrt{10} \times \sqrt{35} \\ = \sqrt{2 \times 5 \times 5 \times 7} \\ = 5\sqrt{14} \end{aligned}$$

$$\begin{aligned} (4) \sqrt{21} \times \sqrt{6} \\ = \sqrt{3 \times 7 \times 2 \times 3} \\ = 3\sqrt{14} \end{aligned}$$

$$\begin{aligned} (5) \sqrt{2} \times 2\sqrt{14} \\ = 2\sqrt{2 \times 2 \times 7} \\ = 4\sqrt{7} \end{aligned}$$

$$\begin{aligned} (6) 2\sqrt{10} \times \sqrt{15} \\ = 2\sqrt{2 \times 5 \times 3 \times 5} \\ = 10\sqrt{6} \end{aligned}$$

$$\begin{aligned} \boxed{10} \quad (1) (-\sqrt{80}) \times \sqrt{24} \\ = -4\sqrt{5} \times 2\sqrt{6} \\ = -8\sqrt{30} \end{aligned}$$

$$\begin{aligned} (2) \sqrt{12} \times (-\sqrt{45}) \\ = 2\sqrt{3} \times (-3\sqrt{5}) \\ = -6\sqrt{15} \end{aligned}$$

$$\begin{aligned} (3) (-\sqrt{72}) \times \sqrt{96} \\ = -6\sqrt{2} \times 4\sqrt{6} \\ = -24\sqrt{2 \times 2 \times 3} \\ = -48\sqrt{3} \end{aligned}$$

$$\begin{aligned} (4) \sqrt{\frac{2}{5}} \times \sqrt{20} \\ = \frac{\sqrt{2} \times 2\sqrt{5}}{\sqrt{5}} \\ = 2\sqrt{2} \end{aligned}$$

$$\begin{aligned} (5) \sqrt{\frac{6}{17}} \times \sqrt{\frac{56}{3}} \\ = \frac{\sqrt{2} \times \sqrt{3} \times 2\sqrt{14} \times \sqrt{2}}{\sqrt{17} \times \sqrt{3}} \\ = 4 \end{aligned}$$

$$\begin{aligned} (6) \left(-\frac{\sqrt{35}}{7}\right) \times (-\sqrt{84}) \\ = \frac{\sqrt{5 \times 7} \times 2 \times 2 \times 3 \times 7}{7} \\ = \frac{2 \times 2 \sqrt{5 \times 3}}{1} \\ = 2\sqrt{15} \end{aligned}$$