

1 次の計算をなさい。

①  $2\sqrt{6} \times 3\sqrt{7}$

②  $\sqrt{5} \times (-4\sqrt{6})$

2 次の計算をなさい。

①  $2\sqrt{15} \div \sqrt{3}$

②  $4\sqrt{14} \div 2\sqrt{7}$

3 次の計算をなさい。

①  $\sqrt{30} \times \sqrt{7} \div \sqrt{3}$

②  $\sqrt{56} \div 4\sqrt{7} \times (-2\sqrt{11})$

③  $\frac{\sqrt{28}}{3} \times (-2\sqrt{3}) \div \sqrt{7}$

④  $\frac{\sqrt{18}}{6} \div (-\sqrt{6}) \times (-\sqrt{12})$

1 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & 2\sqrt{6} \times 3\sqrt{7} \\ & = 2 \times 3 \times \sqrt{6} \times \sqrt{7} \\ & = 6\sqrt{42} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \sqrt{5} \times (-4\sqrt{6}) \\ & = -4 \times \sqrt{5} \times \sqrt{6} \\ & = -4\sqrt{30} \end{aligned}$$

2 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & 2\sqrt{15} \div \sqrt{3} \\ & = \frac{2\sqrt{15}}{\sqrt{3}} \\ & = 2 \times \sqrt{\frac{15}{3}} \\ & = 2\sqrt{5} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & 4\sqrt{14} \div 2\sqrt{7} \\ & = \frac{4\sqrt{14}}{2\sqrt{7}} \\ & = 2 \times \sqrt{\frac{14}{7}} \\ & = 2\sqrt{2} \end{aligned}$$

3 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & \sqrt{30} \times \sqrt{7} \div \sqrt{3} \\ & = \frac{\sqrt{30} \times \sqrt{7}}{\sqrt{3}} \\ & = \sqrt{10} \times \sqrt{7} \\ & = \sqrt{70} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \sqrt{56} \div 4\sqrt{7} \times (-2\sqrt{11}) \\ & = -\frac{2\sqrt{14} \times 2\sqrt{11}}{4\sqrt{7}} \\ & = -\sqrt{2} \times \sqrt{11} \\ & = -\sqrt{22} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & \frac{\sqrt{28}}{3} \times (-2\sqrt{3}) \div \sqrt{7} \\ & = -\frac{2\sqrt{7} \times 2\sqrt{3}}{3 \times \sqrt{7}} \\ & = -\frac{2 \times 2\sqrt{3}}{3} \\ & = -\frac{4\sqrt{3}}{3} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & \frac{\sqrt{18}}{6} \div (-\sqrt{6}) \times (-\sqrt{12}) \\ & = \frac{3\sqrt{2} \times 2\sqrt{3}}{6 \times \sqrt{6}} \\ & = \frac{3 \times 2}{6} \\ & = 1 \end{aligned}$$