

1 次の計算をなさい。

①  $3\sqrt{5} \times 4\sqrt{6}$

②  $\sqrt{7} \times (-3\sqrt{6})$

2 次の計算をなさい。

①  $\sqrt{10} \div \sqrt{2}$

②  $3\sqrt{30} \div \sqrt{5}$

3 次の計算をなさい。

①  $\sqrt{12} \times \sqrt{7} \div \sqrt{3}$

②  $\sqrt{32} \div 2\sqrt{3} \times (-3\sqrt{15})$

③  $\frac{\sqrt{21}}{4} \times (-\sqrt{5}) \div \sqrt{3}$

④  $\frac{\sqrt{12}}{5} \div (-\sqrt{3}) \times (-\sqrt{8})$

1 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & 3\sqrt{5} \times 4\sqrt{6} \\ & = 3 \times 4 \times \sqrt{5} \times \sqrt{6} \\ & = 12\sqrt{30} \end{aligned}$$

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

2 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & \sqrt{10} \div \sqrt{2} \\ & = \frac{\sqrt{10}}{\sqrt{2}} \\ & = \sqrt{\frac{10}{2}} \\ & = \sqrt{5} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & 3\sqrt{30} \div \sqrt{5} \\ & = \frac{3\sqrt{30}}{\sqrt{5}} \\ & = 3 \times \sqrt{\frac{30}{5}} \\ & = 3\sqrt{6} \end{aligned}$$

3 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & \sqrt{12} \times \sqrt{7} \div \sqrt{3} \\ & = \frac{\sqrt{12} \times \sqrt{7}}{\sqrt{3}} \\ & = \sqrt{4} \times \sqrt{7} \\ & = 2\sqrt{7} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \sqrt{32} \div 2\sqrt{3} \times (-3\sqrt{15}) \\ & = -\frac{4\sqrt{2} \times 3\sqrt{15}}{2\sqrt{3}} \\ & = -2\sqrt{2} \times 3\sqrt{5} \\ & = -6\sqrt{10} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & \frac{\sqrt{21}}{4} \times (-\sqrt{5}) \div \sqrt{3} \\ & = -\frac{\sqrt{21} \times \sqrt{5}}{4 \times \sqrt{3}} \\ & = -\frac{\sqrt{7} \times \sqrt{5}}{4} \\ & = -\frac{\sqrt{35}}{4} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & \frac{\sqrt{12}}{5} \div (-\sqrt{3}) \times (-\sqrt{8}) \\ & = \frac{2\sqrt{3} \times 2\sqrt{2}}{5 \times \sqrt{3}} \\ & = \frac{2 \times 2\sqrt{2}}{5} \\ & = \frac{4\sqrt{2}}{5} \end{aligned}$$