

1 次の計算をなさい。

①  $3\sqrt{5} \times 4\sqrt{6}$

②  $\sqrt{6} \times (-2\sqrt{7})$

2 次の計算をなさい。

①  $3\sqrt{6} \div \sqrt{2}$

②  $6\sqrt{15} \div 3\sqrt{3}$

3 次の計算をなさい。

①  $\sqrt{63} \times \sqrt{2} \div \sqrt{7}$

②  $\sqrt{24} \div 2\sqrt{3} \times (-3\sqrt{8})$

③  $\frac{\sqrt{30}}{5} \times (-3\sqrt{2}) \div \sqrt{3}$

④  $\frac{\sqrt{28}}{3} \div (-\sqrt{5}) \times (-\sqrt{15})$

1 次の計算をなさい。

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

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

2 次の計算をなさい。

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

$$\begin{aligned} \textcircled{2} \quad & 6\sqrt{15} \div 3\sqrt{3} \\ & = \frac{6\sqrt{15}}{3\sqrt{3}} \\ & = 2 \times \sqrt{\frac{15}{3}} \\ & = 2\sqrt{5} \end{aligned}$$

3 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & \sqrt{63} \times \sqrt{2} \div \sqrt{7} \\ & = \frac{3\sqrt{7} \times \sqrt{2}}{\sqrt{7}} \\ & = 3 \times \sqrt{2} \\ & = 3\sqrt{2} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \sqrt{24} \div 2\sqrt{3} \times (-3\sqrt{8}) \\ & = -\frac{2\sqrt{6} \times 3\sqrt{8}}{2\sqrt{3}} \\ & = -\sqrt{2} \times 3\sqrt{8} \\ & = -12 \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & \frac{\sqrt{30}}{5} \times (-3\sqrt{2}) \div \sqrt{3} \\ & = -\frac{\sqrt{30} \times 3\sqrt{2}}{5 \times \sqrt{3}} \\ & = -\frac{\sqrt{10} \times 3\sqrt{2}}{5} \\ & = -\frac{6\sqrt{5}}{5} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & \frac{\sqrt{28}}{3} \div (-\sqrt{5}) \times (-\sqrt{15}) \\ & = \frac{2\sqrt{7} \times \sqrt{15}}{3 \times \sqrt{5}} \\ & = \frac{2\sqrt{7} \times \sqrt{3}}{3} \\ & = \frac{2\sqrt{21}}{3} \end{aligned}$$