

1 次の計算をなさい。

① $\sqrt{8} \times \sqrt{6}$

② $\sqrt{6} \times (-2\sqrt{5})$

2 次の計算をなさい。

① $3\sqrt{6} \div \sqrt{2}$

② $2\sqrt{21} \div \sqrt{7}$

3 次の計算をなさい。

① $\sqrt{24} \times \sqrt{5} \div \sqrt{6}$

② $\sqrt{35} \div 3\sqrt{14} \times (-4\sqrt{6})$

③ $\frac{\sqrt{18}}{2} \times (-\sqrt{3}) \div \sqrt{2}$

④ $\frac{\sqrt{14}}{3} \div (-\sqrt{21}) \times (-\sqrt{6})$

1 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & \sqrt{8} \times \sqrt{6} \\ & = 2\sqrt{2} \times \sqrt{2} \times \sqrt{3} \\ & = 2 \times (\sqrt{2})^2 \times \sqrt{3} \\ & = 4\sqrt{3} \end{aligned}$$

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

2 次の計算をなさい。

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

$$\begin{aligned} \textcircled{2} \quad & 2\sqrt{21} \div \sqrt{7} \\ & = \frac{2\sqrt{21}}{\sqrt{7}} \\ & = 2 \times \sqrt{\frac{21}{7}} \\ & = 2\sqrt{3} \end{aligned}$$

3 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & \sqrt{24} \times \sqrt{5} \div \sqrt{6} \\ & = \frac{2\sqrt{6} \times \sqrt{5}}{\sqrt{6}} \\ & = 2\sqrt{5} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \sqrt{35} \div 3\sqrt{14} \times (-4\sqrt{6}) \\ & = -\frac{\sqrt{35} \times 4\sqrt{6}}{3\sqrt{14}} \\ & = -\frac{\sqrt{5} \times 4\sqrt{3}}{3} \\ & = -\frac{4\sqrt{15}}{3} \end{aligned}$$

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

$$\begin{aligned} \textcircled{4} \quad & \frac{\sqrt{14}}{3} \div (-\sqrt{21}) \times (-\sqrt{6}) \\ & = \frac{\sqrt{14} \times \sqrt{6}}{3 \times \sqrt{21}} \\ & = \frac{\sqrt{2} \times \sqrt{2}}{3} \\ & = \frac{2}{3} \end{aligned}$$