

問題 次の計算をしなさい。

$$\begin{aligned}
 \textcircled{1} \quad \sqrt{3} \times \sqrt{6} - \sqrt{8} &= 3\sqrt{1 \times 2} - \sqrt{2 \times 2 \times 2} \\
 &\quad \text{共通因数で} \\
 &\quad \llcorner \llcorner \\
 &= 3\sqrt{2} - 2\sqrt{2} \\
 &= \underline{\underline{\sqrt{2}}} //
 \end{aligned}$$

$$\begin{aligned}
 \textcircled{2} \quad \textcircled{2}\sqrt{2} \times \sqrt{6} - \sqrt{24} \div \sqrt{2} \\
 &= \textcircled{2} \times 2\sqrt{1 \times 3} - \sqrt{12} \\
 &= 4\sqrt{3} - \sqrt{2 \times 2 \times 3} \\
 &= 4\sqrt{3} - 2\sqrt{3} \\
 &= \underline{\underline{2\sqrt{3}}} //
 \end{aligned}$$

$$\begin{aligned}
 \textcircled{3} \quad \sqrt{2} (\sqrt{3} - \sqrt{10}) &= \sqrt{2} \times \sqrt{3} - \sqrt{2} \times \sqrt{10} \\
 &= \sqrt{6} - 2\sqrt{1 \times 5} \\
 &= \underline{\underline{\sqrt{6} - 2\sqrt{5}}} //
 \end{aligned}$$