

問 次の計算をしなさい。

$$\begin{aligned}(1) \quad \sqrt{12} + \sqrt{3} &= \sqrt{2 \times 2 \times 3} + 1\sqrt{3} \\ &= \sqrt{2^2 \times 3} + 1\sqrt{3} \\ &= 2\sqrt{3} + 1\sqrt{3} \\ &= \underline{3\sqrt{3}}\end{aligned}$$

$$\begin{aligned}(2) \quad \sqrt{20} - \sqrt{45} &= \sqrt{2 \times 2 \times 5} - \sqrt{3 \times 3 \times 5} \\ &= \sqrt{2^2 \times 5} - \sqrt{3^2 \times 5} \\ &= 2\sqrt{5} - 3\sqrt{5} \\ &= \underline{-\sqrt{5}}\end{aligned}$$

$$\begin{aligned}(3) \quad \frac{12}{\sqrt{6}} - \sqrt{54} &= \frac{12\sqrt{6}}{\sqrt{6} \times \sqrt{6}} - \sqrt{3 \times 3 \times 3 \times 2} \\ &= \frac{12\sqrt{6}}{6} - 3\sqrt{6} \\ &= 2\sqrt{6} - 3\sqrt{6} \\ &= \underline{-\sqrt{6}}\end{aligned}$$