

$$\sqrt{27} + \frac{4\sqrt{6} - 9}{\sqrt{3}} \quad \text{を簡単にしなさい。}$$

$$\begin{aligned}\sqrt{27} + \frac{4\sqrt{6} - 9}{\sqrt{3}} &= 3\sqrt{3} + \frac{4\sqrt{6}}{\sqrt{3}} - \frac{9}{\sqrt{3}} \\ &= 3\sqrt{3} + \frac{4\sqrt{2} \times \sqrt{3}}{\sqrt{3}} - \frac{3\sqrt{3} \times \sqrt{3}}{\sqrt{3}} \\ &= 3\sqrt{3} + 4\sqrt{2} - 3\sqrt{3} \\ &= 4\sqrt{2}\end{aligned}$$