

$$\sqrt{98} - \frac{\sqrt{48} + 4}{\sqrt{2}} \quad \text{を簡単にしなさい。}$$

$$\begin{aligned}\sqrt{98} - \frac{\sqrt{48} + 4}{\sqrt{2}} &= 7\sqrt{2} - \frac{(4\sqrt{3} + 4) \times \sqrt{2}}{\sqrt{2} \times \sqrt{2}} \\ &= 7\sqrt{2} - \frac{4\sqrt{6} + 4\sqrt{2}}{2} \\ &= 7\sqrt{2} - (2\sqrt{6} + 2\sqrt{2}) \\ &= 7\sqrt{2} - 2\sqrt{6} - 2\sqrt{2} \\ &= 5\sqrt{2} - 2\sqrt{6}\end{aligned}$$