

氏名 ( ) 点数 \_\_\_\_\_

$$\begin{aligned} (1) \quad & \sqrt{27} - \sqrt{48} \\ & = 3\sqrt{3} - 4\sqrt{3} \\ & = \underline{-\sqrt{3}} \end{aligned}$$

$$\begin{aligned} (2) \quad & \sqrt{80} - \sqrt{45} \\ & = 4\sqrt{5} - 3\sqrt{5} \\ & = \underline{\sqrt{5}} \end{aligned}$$

$$\begin{aligned} (3) \quad & \sqrt{32} - \sqrt{50} + \sqrt{8} \\ & = 4\sqrt{2} - 5\sqrt{2} + 2\sqrt{2} \\ & = \underline{\sqrt{2}} \end{aligned}$$

$$\begin{aligned} (4) \quad & \sqrt{24} - \sqrt{45} + \sqrt{96} - \sqrt{20} \\ & = 2\sqrt{6} - 3\sqrt{5} + 4\sqrt{6} - 2\sqrt{5} \\ & = \underline{6\sqrt{6} - 5\sqrt{5}} \end{aligned}$$

$$\begin{aligned} (5) \quad & \frac{3}{\sqrt{2}} - \sqrt{32} \\ & = \frac{3\sqrt{2}}{2} - 4\sqrt{2} \\ & = \frac{3\sqrt{2} - 8\sqrt{2}}{2} \\ & = \underline{-\frac{5\sqrt{2}}{2}} \end{aligned}$$

$$\begin{aligned} (6) \quad & \frac{\sqrt{27}}{4} - \frac{\sqrt{12}}{3} \\ & = \frac{3\sqrt{3}}{4} - \frac{2\sqrt{3}}{3} \\ & = \frac{9\sqrt{3} - 8\sqrt{3}}{12} \\ & = \underline{\frac{\sqrt{3}}{12}} \end{aligned}$$

$$\begin{aligned} (7) \quad & \sqrt{6}(\sqrt{30} - \sqrt{42}) \\ & = \sqrt{6}(\sqrt{6} \times \sqrt{5} - \sqrt{6} \times \sqrt{7}) \\ & = \sqrt{6} \times \sqrt{6} \times \sqrt{5} - \sqrt{6} \times \sqrt{6} \times \sqrt{7} \\ & = \underline{6\sqrt{5} - 6\sqrt{7}} \end{aligned}$$

$$\begin{aligned} (8) \quad & \sqrt{5}(\sqrt{20} - 2\sqrt{35}) \\ & = \sqrt{5}(\sqrt{5} \times \sqrt{4} - 2 \times \sqrt{5} \times \sqrt{7}) \\ & = \sqrt{5} \times \sqrt{5} \times \sqrt{4} - \sqrt{5} \times 2 \times \sqrt{5} \times \sqrt{7} \\ & = 5 \times 2 - 5 \times 2 \times \sqrt{7} \\ & = \underline{10 - 10\sqrt{7}} \end{aligned}$$

$$\begin{aligned} (9) \quad & \sqrt{60} - 3\sqrt{3} \times 2\sqrt{5} \\ & = 2\sqrt{15} - 6\sqrt{15} \\ & = \underline{-4\sqrt{15}} \end{aligned}$$

$$\begin{aligned} (10) \quad & \frac{5}{\sqrt{5}} - \sqrt{27} \times \sqrt{15} \\ & = \frac{5\sqrt{5}}{5} - 3\sqrt{3} \times \sqrt{3} \times \sqrt{5} \\ & = \sqrt{5} - 3 \times 3 \times \sqrt{5} \\ & = \sqrt{5} - 9\sqrt{5} \\ & = \underline{-8\sqrt{5}} \end{aligned}$$