

氏名 () 点数 _____

$$\begin{aligned} (1) \quad & \sqrt{8} - \sqrt{32} \\ & = 2\sqrt{2} - 4\sqrt{2} \\ & = \underline{-2\sqrt{2}} \end{aligned}$$

$$\begin{aligned} (2) \quad & \sqrt{20} - \sqrt{125} \\ & = 2\sqrt{5} - 5\sqrt{5} \\ & = \underline{-3\sqrt{5}} \end{aligned}$$

$$\begin{aligned} (3) \quad & \sqrt{200} - \sqrt{72} + \sqrt{50} \\ & = 10\sqrt{2} - 6\sqrt{2} + 5\sqrt{2} \\ & = \underline{9\sqrt{2}} \end{aligned}$$

$$\begin{aligned} (4) \quad & \sqrt{96} - \sqrt{20} + \sqrt{150} - \sqrt{500} \\ & = 4\sqrt{6} - 2\sqrt{5} + 5\sqrt{6} - 10\sqrt{5} \\ & = \underline{9\sqrt{6} - 12\sqrt{5}} \end{aligned}$$

$$\begin{aligned} (5) \quad & \frac{5}{\sqrt{2}} - \sqrt{72} \\ & = \frac{5\sqrt{2}}{2} - 6\sqrt{2} \\ & = \frac{5\sqrt{2} - 12\sqrt{2}}{2} \\ & = \underline{-\frac{7\sqrt{2}}{2}} \end{aligned}$$

$$\begin{aligned} (6) \quad & \frac{\sqrt{12}}{5} - \frac{\sqrt{48}}{3} \\ & = \frac{2\sqrt{3}}{5} - \frac{4\sqrt{3}}{3} \\ & = \frac{6\sqrt{3} - 20\sqrt{3}}{15} \\ & = \underline{-\frac{14\sqrt{3}}{15}} \end{aligned}$$

$$\begin{aligned} (7) \quad & \sqrt{10}(\sqrt{30} - \sqrt{50}) \\ & = \sqrt{10}(\sqrt{10} \times \sqrt{3} - \sqrt{10} \times \sqrt{5}) \\ & = \sqrt{10} \times \sqrt{10} \times \sqrt{3} - \sqrt{10} \times \sqrt{10} \times \sqrt{5} \\ & = \underline{10\sqrt{3} - 10\sqrt{5}} \end{aligned}$$

$$\begin{aligned} (8) \quad & \sqrt{12}(\sqrt{60} - \sqrt{48}) \\ & = \sqrt{12}(\sqrt{12} \times \sqrt{5} - \sqrt{12} \times \sqrt{4}) \\ & = \sqrt{12} \times \sqrt{12} \times \sqrt{5} - \sqrt{12} \times \sqrt{12} \times \sqrt{4} \\ & = 12 \times \sqrt{5} - 12 \times 2 \\ & = \underline{12\sqrt{5} - 24} \end{aligned}$$

$$\begin{aligned} (9) \quad & \sqrt{24} - 3\sqrt{3} \times 2\sqrt{2} \\ & = 2\sqrt{6} - 6\sqrt{6} \\ & = \underline{-4\sqrt{6}} \end{aligned}$$

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