

1 次の計算をなさい。

① $3\sqrt{5} + 7\sqrt{5}$

② $2\sqrt{7} - 4\sqrt{7}$

2 次の計算をなさい。

① $\sqrt{12} + 3\sqrt{3}$

② $3\sqrt{5} - \sqrt{20}$

③ $-\sqrt{54} + 4\sqrt{6}$

④ $-3\sqrt{2} - \sqrt{50}$

3 次の計算をなさい。

① $\sqrt{6} + \sqrt{28} + 3\sqrt{7}$

② $\sqrt{27} - 2\sqrt{3} + 4\sqrt{5}$

③ $-4\sqrt{3} + \sqrt{54} + \sqrt{24}$

④ $-\sqrt{20} - \sqrt{45} + 3\sqrt{7}$

1 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & 3\sqrt{5} + 7\sqrt{5} \\ & = (3+7)\sqrt{5} \\ & = 10\sqrt{5} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & 2\sqrt{7} - 4\sqrt{7} \\ & = (2-4)\sqrt{7} \\ & = -2\sqrt{7} \end{aligned}$$

2 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & \sqrt{12} + 3\sqrt{3} \\ & = 2\sqrt{3} + 3\sqrt{3} \\ & = (2+3)\sqrt{3} \\ & = 5\sqrt{3} \end{aligned}$$

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

$$\begin{aligned} \textcircled{3} \quad & -\sqrt{54} + 4\sqrt{6} \\ & = -3\sqrt{6} + 4\sqrt{6} \\ & = (-3+4)\sqrt{6} \\ & = \sqrt{6} \end{aligned}$$

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

3 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & \sqrt{6} + \sqrt{28} + 3\sqrt{7} \\ & = \sqrt{6} + 2\sqrt{7} + 3\sqrt{7} \\ & = \sqrt{6} + (2+3)\sqrt{7} \\ & = \sqrt{6} + 5\sqrt{7} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \sqrt{27} - 2\sqrt{3} + 4\sqrt{5} \\ & = 3\sqrt{3} - 2\sqrt{3} + 4\sqrt{5} \\ & = (3-2)\sqrt{3} + 4\sqrt{5} \\ & = \sqrt{3} + 4\sqrt{5} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & -4\sqrt{3} + \sqrt{54} + \sqrt{24} \\ & = -4\sqrt{3} + 3\sqrt{6} + 2\sqrt{6} \\ & = -4\sqrt{3} + (3+2)\sqrt{6} \\ & = -4\sqrt{3} + 5\sqrt{6} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & -\sqrt{20} - \sqrt{45} + 3\sqrt{7} \\ & = -2\sqrt{5} - 3\sqrt{5} + 3\sqrt{7} \\ & = (-2-3)\sqrt{5} + 3\sqrt{7} \\ & = -5\sqrt{5} + 3\sqrt{7} \end{aligned}$$