

1 次の計算をなさい。

① $3\sqrt{7} + 4\sqrt{7}$

② $2\sqrt{5} - 7\sqrt{5}$

2 次の計算をなさい。

① $\sqrt{28} + 3\sqrt{7}$

② $5\sqrt{3} - \sqrt{12}$

③ $-\sqrt{45} + 4\sqrt{5}$

④ $-4\sqrt{2} - \sqrt{18}$

3 次の計算をなさい。

① $2\sqrt{2} + \sqrt{32} + \sqrt{5}$

② $\sqrt{24} - 4\sqrt{6} + 2\sqrt{7}$

③ $-\sqrt{2} + \sqrt{27} + \sqrt{12}$

④ $-\sqrt{63} - \sqrt{28} + \sqrt{10}$

1 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & 3\sqrt{7} + 4\sqrt{7} \\ & = (3+4)\sqrt{7} \\ & = 7\sqrt{7} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & 2\sqrt{5} - 7\sqrt{5} \\ & = (2-7)\sqrt{5} \\ & = -5\sqrt{5} \end{aligned}$$

2 次の計算をなさい。

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

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

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

$$\begin{aligned} \textcircled{4} \quad & -4\sqrt{2} - \sqrt{18} \\ & = -4\sqrt{2} - 3\sqrt{2} \\ & = (-4-3)\sqrt{2} \\ & = -7\sqrt{2} \end{aligned}$$

3 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & 2\sqrt{2} + \sqrt{32} + \sqrt{5} \\ & = 2\sqrt{2} + 4\sqrt{2} + \sqrt{5} \\ & = (2+4)\sqrt{2} + \sqrt{5} \\ & = 6\sqrt{2} + \sqrt{5} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \sqrt{24} - 4\sqrt{6} + 2\sqrt{7} \\ & = 2\sqrt{6} - 4\sqrt{6} + 2\sqrt{7} \\ & = (2-4)\sqrt{6} + 2\sqrt{7} \\ & = -2\sqrt{6} + 2\sqrt{7} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & -\sqrt{2} + \sqrt{27} + \sqrt{12} \\ & = -\sqrt{2} + 3\sqrt{3} + 2\sqrt{3} \\ & = -\sqrt{2} + (3+2)\sqrt{3} \\ & = -\sqrt{2} + 5\sqrt{3} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & -\sqrt{63} - \sqrt{28} + \sqrt{10} \\ & = -3\sqrt{7} - 2\sqrt{7} + \sqrt{10} \\ & = (-3-2)\sqrt{7} + \sqrt{10} \\ & = -5\sqrt{7} + \sqrt{10} \end{aligned}$$