

1 次の計算をなさい。

① $2\sqrt{2} + 6\sqrt{2}$

② $3\sqrt{6} - 7\sqrt{6}$

2 次の計算をなさい。

① $\sqrt{24} + 5\sqrt{6}$

② $4\sqrt{6} - \sqrt{54}$

③ $-\sqrt{27} + 2\sqrt{3}$

④ $-6\sqrt{5} - \sqrt{45}$

3 次の計算をなさい。

① $3\sqrt{3} + \sqrt{20} + 4\sqrt{5}$

② $\sqrt{12} - 4\sqrt{3} + 5\sqrt{6}$

③ $-4\sqrt{2} + \sqrt{24} + \sqrt{54}$

④ $-\sqrt{63} - \sqrt{28} + 4\sqrt{2}$

1 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & 2\sqrt{2} + 6\sqrt{2} \\ & = (2+6)\sqrt{2} \\ & = 8\sqrt{2} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & 3\sqrt{6} - 7\sqrt{6} \\ & = (3-7)\sqrt{6} \\ & = -4\sqrt{6} \end{aligned}$$

2 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & \sqrt{24} + 5\sqrt{6} \\ & = 2\sqrt{6} + 5\sqrt{6} \\ & = (2+5)\sqrt{6} \\ & = 7\sqrt{6} \end{aligned}$$

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

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

$$\begin{aligned} \textcircled{4} \quad & -6\sqrt{5} - \sqrt{45} \\ & = -6\sqrt{5} - 3\sqrt{5} \\ & = (-6-3)\sqrt{5} \\ & = -9\sqrt{5} \end{aligned}$$

3 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & 3\sqrt{3} + \sqrt{20} + 4\sqrt{5} \\ & = 3\sqrt{3} + 2\sqrt{5} + 4\sqrt{5} \\ & = 3\sqrt{3} + (2+4)\sqrt{5} \\ & = 3\sqrt{3} + 6\sqrt{5} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \sqrt{12} - 4\sqrt{3} + 5\sqrt{6} \\ & = 2\sqrt{3} - 4\sqrt{3} + 5\sqrt{6} \\ & = (2-4)\sqrt{3} + 5\sqrt{6} \\ & = -2\sqrt{3} + 5\sqrt{6} \end{aligned}$$

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

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