

1 次の計算をなさい。

① $2\sqrt{3} + 4\sqrt{3}$

② $8\sqrt{5} - 5\sqrt{5}$

2 次の計算をなさい。

① $\sqrt{20} + 4\sqrt{5}$

② $2\sqrt{2} - \sqrt{32}$

③ $-\sqrt{27} + \sqrt{3}$

④ $-4\sqrt{6} - \sqrt{24}$

3 次の計算をなさい。

① $2\sqrt{2} + \sqrt{12} + 4\sqrt{3}$

② $\sqrt{45} - 2\sqrt{5} + 4\sqrt{7}$

③ $-2\sqrt{3} + \sqrt{63} + \sqrt{28}$

④ $-\sqrt{18} - \sqrt{32} + 5\sqrt{6}$

1 次の計算をなさい。

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

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

2 次の計算をなさい。

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

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

$$\begin{aligned} \textcircled{3} \quad & -\sqrt{27} + \sqrt{3} \\ & = -3\sqrt{3} + \sqrt{3} \\ & = (-3+1)\sqrt{3} \\ & = -2\sqrt{3} \end{aligned}$$

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

3 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & 2\sqrt{2} + \sqrt{12} + 4\sqrt{3} \\ & = 2\sqrt{2} + 2\sqrt{3} + 4\sqrt{3} \\ & = 2\sqrt{2} + (2+4)\sqrt{3} \\ & = 2\sqrt{2} + 6\sqrt{3} \end{aligned}$$

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

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

$$\begin{aligned} \textcircled{4} \quad & -\sqrt{18} - \sqrt{32} + 5\sqrt{6} \\ & = -3\sqrt{2} - 4\sqrt{2} + 5\sqrt{6} \\ & = (-3-4)\sqrt{2} + 5\sqrt{6} \\ & = -7\sqrt{2} + 5\sqrt{6} \end{aligned}$$