

1 次の計算をなさい。

① $4\sqrt{3} + 3\sqrt{3}$

② $5\sqrt{7} - 2\sqrt{7}$

2 次の計算をなさい。

① $\sqrt{27} + 2\sqrt{3}$

② $4\sqrt{7} - \sqrt{28}$

③ $-\sqrt{54} + 2\sqrt{6}$

④ $-5\sqrt{2} - \sqrt{8}$

3 次の計算をなさい。

① $3\sqrt{6} + \sqrt{24} + \sqrt{7}$

② $\sqrt{18} - 2\sqrt{2} + 4\sqrt{3}$

③ $-2\sqrt{5} + \sqrt{28} + \sqrt{63}$

④ $-\sqrt{20} - \sqrt{45} + 3\sqrt{2}$

1 次の計算をなさい。

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

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

2 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & \sqrt{27} + 2\sqrt{3} \\ &= 3\sqrt{3} + 2\sqrt{3} \\ &= (3+2)\sqrt{3} \\ &= 5\sqrt{3} \end{aligned}$$

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

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

$$\begin{aligned} \textcircled{4} \quad & -5\sqrt{2} - \sqrt{8} \\ &= -5\sqrt{2} - 2\sqrt{2} \\ &= (-5-2)\sqrt{2} \\ &= -7\sqrt{2} \end{aligned}$$

3 次の計算をなさい。

$$\begin{aligned} \textcircled{1} \quad & 3\sqrt{6} + \sqrt{24} + \sqrt{7} \\ &= 3\sqrt{6} + 2\sqrt{6} + \sqrt{7} \\ &= (3+2)\sqrt{6} + \sqrt{7} \\ &= 5\sqrt{6} + \sqrt{7} \end{aligned}$$

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

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

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