

■ 次の計算をなさい。

① $-\sqrt{3} - 4\sqrt{3} + \sqrt{27}$

② $\sqrt{98} + \sqrt{2} - 6\sqrt{2}$

③ $3\sqrt{7}(\sqrt{7} - \sqrt{6})$

④ $\sqrt{7} + \sqrt{27} + 2\sqrt{7}$

⑤ $-\sqrt{12} + \sqrt{75} - \sqrt{27}$

⑥ $-3\sqrt{10} + \sqrt{40} + \sqrt{10}$

⑦ $\sqrt{10}(\sqrt{5} - \sqrt{90})$

⑧ $-\sqrt{54} - 2\sqrt{6} - \sqrt{96}$

⑨ $\sqrt{3} + \sqrt{48} - \sqrt{27}$

⑩ $3\sqrt{7}(\sqrt{28} - 9)$

⑪ $\sqrt{10}(\sqrt{27} + 2\sqrt{10})$

⑫ $-2\sqrt{11} + \sqrt{11} + \sqrt{99}$

⑬ $-\sqrt{2} - \sqrt{32} + \sqrt{50}$

⑭ $-\sqrt{90} - \sqrt{12} - 4\sqrt{3}$

⑮ $2\sqrt{6}(2 - \sqrt{6})$

⑯ $-3\sqrt{7} + \sqrt{20} - \sqrt{45}$

■ 次の計算を下さい。

$$\textcircled{1} -\sqrt{3} - 4\sqrt{3} + \sqrt{27} = -\sqrt{3} - 4\sqrt{3} + 3\sqrt{3}$$

$$-2\sqrt{3}$$

$$\textcircled{2} \sqrt{98} + \sqrt{2} - 6\sqrt{2} = 7\sqrt{2} + \sqrt{2} - 6\sqrt{2}$$

$$2\sqrt{2}$$

$$\textcircled{3} 3\sqrt{7}(\sqrt{7} - \sqrt{6})$$

$$21 - 3\sqrt{42}$$

$$\textcircled{4} \sqrt{7} + \sqrt{27} + 2\sqrt{7} = \sqrt{7} + 3\sqrt{3} + 2\sqrt{7}$$

$$3\sqrt{7} + 3\sqrt{3}$$

$$\textcircled{5} -\sqrt{12} + \sqrt{75} - \sqrt{27} = -2\sqrt{3} + 5\sqrt{3} - 3\sqrt{3}$$

$$0$$

$$\textcircled{6} -3\sqrt{10} + \sqrt{40} + \sqrt{10} = -3\sqrt{10} + 2\sqrt{10} + \sqrt{10}$$

$$0$$

$$\textcircled{7} \sqrt{10}(\sqrt{5} - \sqrt{90})$$

$$5\sqrt{2} - 30$$

$$\textcircled{8} -\sqrt{54} - 2\sqrt{6} - \sqrt{96} = -3\sqrt{6} - 2\sqrt{6} - 4\sqrt{6}$$

$$-9\sqrt{6}$$

$$\textcircled{9} \sqrt{3} + \sqrt{48} - \sqrt{27} = \sqrt{3} + 4\sqrt{3} - 3\sqrt{3}$$

$$2\sqrt{3}$$

$$\textcircled{10} 3\sqrt{7}(\sqrt{28} - 9)$$

$$42 - 27\sqrt{7}$$

$$\textcircled{11} \sqrt{10}(\sqrt{27} + 2\sqrt{10})$$

$$3\sqrt{30} + 20$$

$$\textcircled{12} -2\sqrt{11} + \sqrt{11} + \sqrt{99} = -2\sqrt{11} + \sqrt{11} + 3\sqrt{11}$$

$$2\sqrt{11}$$

$$\textcircled{13} -\sqrt{2} - \sqrt{32} + \sqrt{50} = -\sqrt{2} - 4\sqrt{2} + 5\sqrt{2}$$

$$0$$

$$\textcircled{14} -\sqrt{90} - \sqrt{12} - 4\sqrt{3} = -3\sqrt{10} - 2\sqrt{3} - 4\sqrt{3}$$

$$-3\sqrt{10} - 6\sqrt{3}$$

$$\textcircled{15} 2\sqrt{6}(2 - \sqrt{6})$$

$$4\sqrt{6} - 12$$

$$\textcircled{16} -3\sqrt{7} + \sqrt{20} - \sqrt{45} = -3\sqrt{7} + 2\sqrt{5} - 3\sqrt{5}$$

$$-3\sqrt{7} - \sqrt{5}$$