

■ 次の計算をなさい。

① $5\sqrt{2}(\sqrt{8} + \sqrt{10})$

② $-\sqrt{5} - \sqrt{10} + \sqrt{90}$

③ $-\sqrt{28} + \sqrt{44} + \sqrt{7}$

④ $2\sqrt{5} + \sqrt{45} - \sqrt{5}$

⑤ $-3\sqrt{2}(9 - \sqrt{32})$

⑥ $\sqrt{2}(\sqrt{50} - 2\sqrt{5})$

⑦ $-3\sqrt{11} + \sqrt{44} - \sqrt{11}$

⑧ $4\sqrt{3}(\sqrt{75} - \sqrt{63})$

⑨ $-\sqrt{99} - \sqrt{45} + \sqrt{44}$

⑩ $3\sqrt{6}(\sqrt{6} + \sqrt{48})$

⑪ $-\sqrt{75} + \sqrt{3} + 3\sqrt{3}$

⑫ $3\sqrt{3}(3 + \sqrt{3})$

⑬ $-\sqrt{2}(\sqrt{72} - 2)$

⑭ $4\sqrt{3} - \sqrt{75} + \sqrt{12}$

⑮ $-\sqrt{2} + \sqrt{18} - \sqrt{50}$

⑯ $\sqrt{5}(6 - 2\sqrt{5})$

■ 次の計算を下さい。

$$\textcircled{1} 5\sqrt{2}(\sqrt{8}+\sqrt{10})$$

$$20+10\sqrt{5}$$

$$\textcircled{2} -\sqrt{5}-\sqrt{10}+\sqrt{90} = -\sqrt{5}-\sqrt{10}+3\sqrt{10}$$

$$-\sqrt{5}+2\sqrt{10}$$

$$\textcircled{3} -\sqrt{28}+\sqrt{44}+\sqrt{7} = -2\sqrt{7}+2\sqrt{11}+\sqrt{7}$$

$$-\sqrt{7}+2\sqrt{11}$$

$$\textcircled{4} 2\sqrt{5}+\sqrt{45}-\sqrt{5} = 2\sqrt{5}+3\sqrt{5}-\sqrt{5}$$

$$4\sqrt{5}$$

$$\textcircled{5} -3\sqrt{2}(9-\sqrt{32})$$

$$-27\sqrt{2}+24$$

$$\textcircled{6} \sqrt{2}(\sqrt{50}-2\sqrt{5})$$

$$10-2\sqrt{10}$$

$$\textcircled{7} -3\sqrt{11}+\sqrt{44}-\sqrt{11} = -3\sqrt{11}+2\sqrt{11}-\sqrt{11}$$

$$-2\sqrt{11}$$

$$\textcircled{8} 4\sqrt{3}(\sqrt{75}-\sqrt{63})$$

$$60-12\sqrt{21}$$

$$\textcircled{9} -\sqrt{99}-\sqrt{45}+\sqrt{44} = -3\sqrt{11}-3\sqrt{5}+2\sqrt{11}$$

$$-\sqrt{11}-3\sqrt{5}$$

$$\textcircled{10} 3\sqrt{6}(\sqrt{6}+\sqrt{48})$$

$$18+36\sqrt{2}$$

$$\textcircled{11} -\sqrt{75}+\sqrt{3}+3\sqrt{3} = -5\sqrt{3}+\sqrt{3}+3\sqrt{3}$$

$$-\sqrt{3}$$

$$\textcircled{12} 3\sqrt{3}(3+\sqrt{3})$$

$$9\sqrt{3}+9$$

$$\textcircled{13} -\sqrt{2}(\sqrt{72}-2)$$

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

$$\textcircled{14} 4\sqrt{3}-\sqrt{75}+\sqrt{12} = 4\sqrt{3}-5\sqrt{3}+2\sqrt{3}$$

$$\sqrt{3}$$

$$\textcircled{15} -\sqrt{2}+\sqrt{18}-\sqrt{50} = -\sqrt{2}+3\sqrt{2}-5\sqrt{2}$$

$$-3\sqrt{2}$$

$$\textcircled{16} \sqrt{5}(6-2\sqrt{5})$$

$$6\sqrt{5}-10$$