

■ 次の計算をなさい。

①  $-3\sqrt{10}(\sqrt{20} + \sqrt{10})$

②  $-\sqrt{3} + \sqrt{12} - 2\sqrt{6}$

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

④  $3\sqrt{6} - \sqrt{96} + \sqrt{6}$

⑤  $2\sqrt{5} + \sqrt{5} - \sqrt{32}$

⑥  $-\sqrt{32} - 7\sqrt{2} - \sqrt{8}$

⑦  $3\sqrt{5}(8 + \sqrt{5})$

⑧  $-\sqrt{90} - \sqrt{27} + \sqrt{12}$

⑨  $-\sqrt{98} + 3\sqrt{10} - \sqrt{40}$

⑩  $-5\sqrt{3}(\sqrt{48} - 2\sqrt{7})$

⑪  $-\sqrt{6}(\sqrt{5} - \sqrt{24})$

⑫  $4\sqrt{2}(3\sqrt{2} + 6)$

⑬  $-\sqrt{75} + \sqrt{12} + \sqrt{27}$

⑭  $\sqrt{6}(3 - \sqrt{54})$

⑮  $\sqrt{5} + \sqrt{20} + 4\sqrt{5}$

⑯  $2\sqrt{10}(\sqrt{90} - \sqrt{75})$

■ 次の計算をなさい。

$$\textcircled{1} -3\sqrt{10}(\sqrt{20}+\sqrt{10})$$

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

$$\textcircled{2} -\sqrt{3}+\sqrt{12}-2\sqrt{6} = -\sqrt{3}+2\sqrt{3}-2\sqrt{6}$$

$$\sqrt{3}-2\sqrt{6}$$

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

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

$$\textcircled{4} 3\sqrt{6}-\sqrt{96}+\sqrt{6} = 3\sqrt{6}-4\sqrt{6}+\sqrt{6}$$

$$0$$

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

$$3\sqrt{5}-4\sqrt{2}$$

$$\textcircled{6} -\sqrt{32}-7\sqrt{2}-\sqrt{8} = -4\sqrt{2}-7\sqrt{2}-2\sqrt{2}$$

$$-13\sqrt{2}$$

$$\textcircled{7} 3\sqrt{5}(8+\sqrt{5})$$

$$24\sqrt{5}+15$$

$$\textcircled{8} -\sqrt{90}-\sqrt{27}+\sqrt{12} = -3\sqrt{10}-3\sqrt{3}+2\sqrt{3}$$

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

$$\textcircled{9} -\sqrt{98}+3\sqrt{10}-\sqrt{40} = -7\sqrt{2}+3\sqrt{10}-2\sqrt{10}$$

$$-7\sqrt{2}+\sqrt{10}$$

$$\textcircled{10} -5\sqrt{3}(\sqrt{48}-2\sqrt{7})$$

$$-60+10\sqrt{21}$$

$$\textcircled{11} -\sqrt{6}(\sqrt{5}-\sqrt{24})$$

$$-\sqrt{30}+12$$

$$\textcircled{12} 4\sqrt{2}(3\sqrt{2}+6)$$

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

$$\textcircled{13} -\sqrt{75}+\sqrt{12}+\sqrt{27} = -5\sqrt{3}+2\sqrt{3}+3\sqrt{3}$$

$$0$$

$$\textcircled{14} \sqrt{6}(3-\sqrt{54})$$

$$3\sqrt{6}-18$$

$$\textcircled{15} \sqrt{5}+\sqrt{20}+4\sqrt{5} = \sqrt{5}+2\sqrt{5}+4\sqrt{5}$$

$$7\sqrt{5}$$

$$\textcircled{16} 2\sqrt{10}(\sqrt{90}-\sqrt{75})$$

$$60-10\sqrt{30}$$