

■ 次の計算をなさい。

① $-5\sqrt{2}(\sqrt{8}+2\sqrt{6})$

② $-\sqrt{96}-\sqrt{54}-\sqrt{6}$

③ $-\sqrt{7}(\sqrt{28}+3)$

④ $-3\sqrt{5}(6-\sqrt{20})$

⑤ $\sqrt{7}+\sqrt{28}-\sqrt{63}$

⑥ $\sqrt{11}-\sqrt{44}+\sqrt{75}$

⑦ $\sqrt{28}+\sqrt{63}+\sqrt{90}$

⑧ $2\sqrt{10}(2\sqrt{5}-\sqrt{90})$

⑨ $3\sqrt{11}-\sqrt{11}+\sqrt{44}$

⑩ $-\sqrt{10}-\sqrt{99}+3\sqrt{10}$

⑪ $-\sqrt{28}-\sqrt{63}-2\sqrt{11}$

⑫ $\sqrt{7}(6+\sqrt{63})$

⑬ $\sqrt{27}+2\sqrt{3}+\sqrt{48}$

⑭ $-\sqrt{80}+\sqrt{45}-\sqrt{20}$

⑮ $\sqrt{24}-3\sqrt{5}-\sqrt{20}$

⑯ $-3\sqrt{6}(3+\sqrt{24})$

根号と加減法

年 組 名前

/16

■ 次の計算をなさい。

$$\textcircled{1} -5\sqrt{2}(\sqrt{8}+2\sqrt{6})$$

$$-20-20\sqrt{3}$$

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

$$-8\sqrt{6}$$

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

$$-14-3\sqrt{7}$$

$$\textcircled{4} -3\sqrt{5}(6-\sqrt{20})$$

$$-18\sqrt{5}+30$$

$$\textcircled{5} \sqrt{7}+\sqrt{28}-\sqrt{63} = \sqrt{7}+2\sqrt{7}-3\sqrt{7}$$

$$0$$

$$\textcircled{6} \sqrt{11}-\sqrt{44}+\sqrt{75} = \sqrt{11}-2\sqrt{11}+5\sqrt{3}$$

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

$$\textcircled{7} \sqrt{28}+\sqrt{63}+\sqrt{90} = 2\sqrt{7}+3\sqrt{7}+3\sqrt{10}$$

$$5\sqrt{7}+3\sqrt{10}$$

$$\textcircled{8} 2\sqrt{10}(2\sqrt{5}-\sqrt{90})$$

$$20\sqrt{2}-60$$

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

$$4\sqrt{11}$$

$$\textcircled{10} -\sqrt{10}-\sqrt{99}+3\sqrt{10} = -\sqrt{10}-3\sqrt{11}+3\sqrt{10}$$

$$2\sqrt{10}-3\sqrt{11}$$

$$\textcircled{11} -\sqrt{28}-\sqrt{63}-2\sqrt{11} = -2\sqrt{7}-3\sqrt{7}-2\sqrt{11}$$

$$-5\sqrt{7}-2\sqrt{11}$$

$$\textcircled{12} \sqrt{7}(6+\sqrt{63})$$

$$6\sqrt{7}+21$$

$$\textcircled{13} \sqrt{27}+2\sqrt{3}+\sqrt{48} = 3\sqrt{3}+2\sqrt{3}+4\sqrt{3}$$

$$9\sqrt{3}$$

$$\textcircled{14} -\sqrt{80}+\sqrt{45}-\sqrt{20} = -4\sqrt{5}+3\sqrt{5}-2\sqrt{5}$$

$$-3\sqrt{5}$$

$$\textcircled{15} \sqrt{24}-3\sqrt{5}-\sqrt{20} = 2\sqrt{6}-3\sqrt{5}-2\sqrt{5}$$

$$2\sqrt{6}-5\sqrt{5}$$

$$\textcircled{16} -3\sqrt{6}(3+\sqrt{24})$$

$$-9\sqrt{6}-36$$