

■ 次の計算をなさい。

①  $\sqrt{32} + \sqrt{50} + \sqrt{2}$

②  $-4\sqrt{3}(3 - \sqrt{75})$

③  $-\sqrt{99} + \sqrt{44} + \sqrt{11}$

④  $2\sqrt{6} - \sqrt{54} - \sqrt{6}$

⑤  $2\sqrt{2}(\sqrt{90} + \sqrt{2})$

⑥  $-\sqrt{45} + 2\sqrt{5} - \sqrt{80}$

⑦  $\sqrt{48} - \sqrt{27} + 2\sqrt{3}$

⑧  $-\sqrt{90} - 2\sqrt{11} + \sqrt{99}$

⑨  $\sqrt{10} - \sqrt{40} - 2\sqrt{5}$

⑩  $\sqrt{32} - \sqrt{50} + \sqrt{2}$

⑪  $\sqrt{10}(\sqrt{90} + \sqrt{45})$

⑫  $-7\sqrt{2} + \sqrt{18} + \sqrt{2}$

⑬  $-7\sqrt{2}(\sqrt{8} - \sqrt{7})$

⑭  $-\sqrt{8} + \sqrt{72} - \sqrt{32}$

⑮  $-\sqrt{5}(6 - 2\sqrt{5})$

⑯  $3\sqrt{7} + \sqrt{40} + \sqrt{10}$

■ 次の計算を下さい。

①  $\sqrt{32} + \sqrt{50} + \sqrt{2} = 4\sqrt{2} + 5\sqrt{2} + \sqrt{2}$

$10\sqrt{2}$

②  $-4\sqrt{3}(3 - \sqrt{75})$

$-12\sqrt{3} + 60$

③  $-\sqrt{99} + \sqrt{44} + \sqrt{11} = -3\sqrt{11} + 2\sqrt{11} + \sqrt{11}$

0

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

$-2\sqrt{6}$

⑤  $2\sqrt{2}(\sqrt{90} + \sqrt{2})$

$12\sqrt{5} + 4$

⑥  $-\sqrt{45} + 2\sqrt{5} - \sqrt{80} = -3\sqrt{5} + 2\sqrt{5} - 4\sqrt{5}$

$-5\sqrt{5}$

⑦  $\sqrt{48} - \sqrt{27} + 2\sqrt{3} = 4\sqrt{3} - 3\sqrt{3} + 2\sqrt{3}$

$3\sqrt{3}$

⑧  $-\sqrt{90} - 2\sqrt{11} + \sqrt{99} = -3\sqrt{10} - 2\sqrt{11} + 3\sqrt{11}$

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

⑨  $\sqrt{10} - \sqrt{40} - 2\sqrt{5} = \sqrt{10} - 2\sqrt{10} - 2\sqrt{5}$

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

⑩  $\sqrt{32} - \sqrt{50} + \sqrt{2} = 4\sqrt{2} - 5\sqrt{2} + \sqrt{2}$

0

⑪  $\sqrt{10}(\sqrt{90} + \sqrt{45})$

$30 + 15\sqrt{2}$

⑫  $-7\sqrt{2} + \sqrt{18} + \sqrt{2} = -7\sqrt{2} + 3\sqrt{2} + \sqrt{2}$

$-3\sqrt{2}$

⑬  $-7\sqrt{2}(\sqrt{8} - \sqrt{7})$

$-28 + 7\sqrt{14}$

⑭  $-\sqrt{8} + \sqrt{72} - \sqrt{32} = -2\sqrt{2} + 6\sqrt{2} - 4\sqrt{2}$

0

⑮  $-\sqrt{5}(6 - 2\sqrt{5})$

$-6\sqrt{5} + 10$

⑯  $3\sqrt{7} + \sqrt{40} + \sqrt{10} = 3\sqrt{7} + 2\sqrt{10} + \sqrt{10}$

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