

## 平方根の加法・減法（２）

学習日 月 日

年 組 番 氏名

(1) 次の計算をなさい。

①  $\sqrt{2} + 3\sqrt{2}$

②  $4\sqrt{3} + 3\sqrt{3}$

⑦  $\sqrt{18} + 5\sqrt{2}$

⑧  $\sqrt{27} - \sqrt{3}$

③  $8\sqrt{7} - 2\sqrt{7}$

④  $3\sqrt{6} - 5\sqrt{6}$

⑨  $\sqrt{75} + \sqrt{12} - \sqrt{3}$

⑩  $\sqrt{63} - 4\sqrt{7} - \sqrt{28}$

⑤  $9\sqrt{5} - \sqrt{5}$

⑥  $9\sqrt{7} - 10\sqrt{7}$

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$$\begin{aligned}\textcircled{1} \quad & \sqrt{2} + 3\sqrt{2} \\ & = (1 + 3)\sqrt{2} \\ & = 4\sqrt{2}\end{aligned}$$

$$\begin{aligned}\textcircled{2} \quad & 4\sqrt{3} + 3\sqrt{3} \\ & = (4 + 3)\sqrt{3} \\ & = 7\sqrt{3}\end{aligned}$$

$$\begin{aligned}\textcircled{7} \quad & \sqrt{18} + 5\sqrt{2} \\ & = 3\sqrt{2} + 5\sqrt{2} \\ & = (3 + 5)\sqrt{2} \\ & = 8\sqrt{2}\end{aligned}$$

$$\begin{aligned}\textcircled{8} \quad & \sqrt{27} - \sqrt{3} \\ & = 3\sqrt{3} - \sqrt{3} \\ & = (3 - 1)\sqrt{3} \\ & = 2\sqrt{3}\end{aligned}$$

$$\begin{aligned}\textcircled{3} \quad & 8\sqrt{7} - 2\sqrt{7} \\ & = (8 - 2)\sqrt{7} \\ & = 6\sqrt{7}\end{aligned}$$

$$\begin{aligned}\textcircled{4} \quad & 3\sqrt{6} - 5\sqrt{6} \\ & = (3 - 5)\sqrt{6} \\ & = -2\sqrt{6}\end{aligned}$$

$$\begin{aligned}\textcircled{9} \quad & \sqrt{75} + \sqrt{12} - \sqrt{3} \\ & = 5\sqrt{3} + 2\sqrt{3} - \sqrt{3} \\ & = (5 + 2 - 1)\sqrt{3} \\ & = 6\sqrt{3}\end{aligned}$$

$$\begin{aligned}\textcircled{10} \quad & \sqrt{63} - 4\sqrt{7} - \sqrt{28} \\ & = 3\sqrt{7} - 4\sqrt{7} - 2\sqrt{7} \\ & = (3 - 4 - 2)\sqrt{7} \\ & = -3\sqrt{7}\end{aligned}$$

$$\begin{aligned}\textcircled{5} \quad & 9\sqrt{5} - \sqrt{5} \\ & = (9 - 1)\sqrt{5} \\ & = 8\sqrt{5}\end{aligned}$$

$$\begin{aligned}\textcircled{6} \quad & 9\sqrt{7} - 10\sqrt{7} \\ & = (9 - 10)\sqrt{7} \\ & = -\sqrt{7}\end{aligned}$$