

平方根 乗法公式（20問） 版Iの答え

※ $(a + b)^2$ の真ん中の項 $2ab$ を落としていないかを見てください。

$$\begin{aligned}(1) \quad & (2\sqrt{5} - 5)^2 \\ & = 45 - 20\sqrt{5}\end{aligned}$$

$$\begin{aligned}(2) \quad & (\sqrt{6} + 1)^2 \\ & = 7 + 2\sqrt{6}\end{aligned}$$

$$\begin{aligned}(3) \quad & (\sqrt{3} + 3)(\sqrt{3} - 3) \\ & = -6\end{aligned}$$

$$\begin{aligned}(4) \quad & (\sqrt{2} - 2)(\sqrt{2} + 5) \\ & = -8 + 3\sqrt{2}\end{aligned}$$

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

$$\begin{aligned}(6) \quad & (\sqrt{2} + 4)(\sqrt{2} - 4) \\ & = -14\end{aligned}$$

$$\begin{aligned}(7) \quad & \sqrt{5}(\sqrt{2} - 3) \\ & = \sqrt{10} - 3\sqrt{5}\end{aligned}$$

$$\begin{aligned}(8) \quad & (2\sqrt{3} + 4)(\sqrt{3} + 3) \\ & = 18 + 10\sqrt{3}\end{aligned}$$

$$\begin{aligned}(9) \quad & \sqrt{5}(\sqrt{6} + 2) \\ & = 2\sqrt{5} + \sqrt{30}\end{aligned}$$

$$\begin{aligned}(10) \quad & (\sqrt{7} + 2)(\sqrt{7} - 2) \\ & = 3\end{aligned}$$

$$\begin{aligned}(11) \quad & \sqrt{3}(\sqrt{5} - 3) \\ & = \sqrt{15} - 3\sqrt{3}\end{aligned}$$

$$\begin{aligned}(12) \quad & (2\sqrt{3} + 1)(\sqrt{3} + 5) \\ & = 11 + 11\sqrt{3}\end{aligned}$$

$$\begin{aligned}(13) \quad & \sqrt{5}(\sqrt{3} + 4) \\ & = 4\sqrt{5} + \sqrt{15}\end{aligned}$$

$$\begin{aligned}(14) \quad & (\sqrt{7} + \sqrt{3})(\sqrt{7} - \sqrt{3}) \\ & = 4\end{aligned}$$

$$\begin{aligned}(15) \quad & (\sqrt{3} - 1)(\sqrt{3} - 2) \\ & = 5 - 3\sqrt{3}\end{aligned}$$

$$\begin{aligned}(16) \quad & (\sqrt{2} - 1)^2 \\ & = 3 - 2\sqrt{2}\end{aligned}$$

$$\begin{aligned}(17) \quad & (2\sqrt{2} - 2)^2 \\ & = 12 - 8\sqrt{2}\end{aligned}$$

$$\begin{aligned}(18) \quad & \sqrt{2}(\sqrt{6} + 3) \\ & = 3\sqrt{2} + 2\sqrt{3}\end{aligned}$$

$$\begin{aligned}(19) \quad & (2\sqrt{6} - 4)^2 \\ & = 40 - 16\sqrt{6}\end{aligned}$$

$$\begin{aligned}(20) \quad & (\sqrt{3} + 1)(\sqrt{3} - 1) \\ & = 2\end{aligned}$$