

平方根 乗法公式（20問） 版F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。

$$\begin{aligned}(1) (\sqrt{5} + 2)^2 \\ = 9 + 4\sqrt{5}\end{aligned}$$

$$\begin{aligned}(2) (2\sqrt{7} - 3)(\sqrt{7} - 5) \\ = 29 - 13\sqrt{7}\end{aligned}$$

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

$$\begin{aligned}(4) (\sqrt{7} + 1)(\sqrt{7} - 1) \\ = 6\end{aligned}$$

$$\begin{aligned}(5) (\sqrt{2} - 1)(\sqrt{2} - 2) \\ = 4 - 3\sqrt{2}\end{aligned}$$

$$\begin{aligned}(6) (\sqrt{5} + 1)^2 \\ = 6 + 2\sqrt{5}\end{aligned}$$

$$\begin{aligned}(7) (\sqrt{6} + \sqrt{5})(\sqrt{6} - \sqrt{5}) \\ = 1\end{aligned}$$

$$\begin{aligned}(8) \sqrt{5}(\sqrt{2} - 3) \\ = \sqrt{10} - 3\sqrt{5}\end{aligned}$$

$$\begin{aligned}(9) (\sqrt{7} - 1)(\sqrt{7} + 3) \\ = 4 + 2\sqrt{7}\end{aligned}$$

$$\begin{aligned}(10) \sqrt{2}(\sqrt{3} - 4) \\ = \sqrt{6} - 4\sqrt{2}\end{aligned}$$

$$\begin{aligned}(11) \sqrt{6}(\sqrt{5} + 1) \\ = \sqrt{6} + \sqrt{30}\end{aligned}$$

$$\begin{aligned}(12) \sqrt{6}(\sqrt{2} - 3) \\ = 2\sqrt{3} - 3\sqrt{6}\end{aligned}$$

$$\begin{aligned}(13) (2\sqrt{3} + 2)(\sqrt{3} - 5) \\ = -4 - 8\sqrt{3}\end{aligned}$$

$$\begin{aligned}(14) (\sqrt{5} - 1)^2 \\ = 6 - 2\sqrt{5}\end{aligned}$$

$$\begin{aligned}(15) (2\sqrt{2} + 3)(\sqrt{2} - 2) \\ = -2 - \sqrt{2}\end{aligned}$$

$$\begin{aligned}(16) (\sqrt{6} + 3)^2 \\ = 15 + 6\sqrt{6}\end{aligned}$$

$$\begin{aligned}(17) \sqrt{3}(\sqrt{2} + 1) \\ = \sqrt{3} + \sqrt{6}\end{aligned}$$

$$\begin{aligned}(18) (\sqrt{2} + \sqrt{5})(\sqrt{2} - \sqrt{5}) \\ = -3\end{aligned}$$

$$\begin{aligned}(19) (\sqrt{6} - 2)^2 \\ = 10 - 4\sqrt{6}\end{aligned}$$

$$\begin{aligned}(20) (\sqrt{2} + 4)(\sqrt{2} - 4) \\ = -14\end{aligned}$$