

平方根 乗法公式（20問） 版J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。

$$\begin{aligned}(1) (\sqrt{2} + 1)(\sqrt{2} - 1) \\ = 1\end{aligned}$$

$$\begin{aligned}(2) \sqrt{2}(\sqrt{5} - 1) \\ = \sqrt{10} - \sqrt{2}\end{aligned}$$

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

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

$$\begin{aligned}(5) \sqrt{2}(\sqrt{5} + 5) \\ = 5\sqrt{2} + \sqrt{10}\end{aligned}$$

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

$$\begin{aligned}(7) \sqrt{2}(\sqrt{6} + 1) \\ = \sqrt{2} + 2\sqrt{3}\end{aligned}$$

$$\begin{aligned}(8) (\sqrt{5} + \sqrt{7})(\sqrt{5} - \sqrt{7}) \\ = -2\end{aligned}$$

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

$$\begin{aligned}(10) (2\sqrt{2} - 5)(\sqrt{2} + 2) \\ = -6 - \sqrt{2}\end{aligned}$$

$$\begin{aligned}(11) (\sqrt{3} + 1)^2 \\ = 4 + 2\sqrt{3}\end{aligned}$$

$$\begin{aligned}(12) (\sqrt{2} + \sqrt{5})(\sqrt{2} - \sqrt{5}) \\ = -3\end{aligned}$$

$$\begin{aligned}(13) \sqrt{6}(\sqrt{3} + 3) \\ = 3\sqrt{2} + 3\sqrt{6}\end{aligned}$$

$$\begin{aligned}(14) (\sqrt{5} + 1)(\sqrt{5} - 2) \\ = 3 - \sqrt{5}\end{aligned}$$

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

$$\begin{aligned}(16) (\sqrt{2} - 2)(\sqrt{2} - 1) \\ = 4 - 3\sqrt{2}\end{aligned}$$

$$\begin{aligned}(17) \sqrt{3}(\sqrt{5} + 2) \\ = 2\sqrt{3} + \sqrt{15}\end{aligned}$$

$$\begin{aligned}(18) (\sqrt{6} - 5)^2 \\ = 31 - 10\sqrt{6}\end{aligned}$$

$$\begin{aligned}(19) (\sqrt{6} + 4)^2 \\ = 22 + 8\sqrt{6}\end{aligned}$$

$$\begin{aligned}(20) (\sqrt{5} - 1)^2 \\ = 6 - 2\sqrt{5}\end{aligned}$$