

平方根 乗法公式（20問） 版E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。

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

$$\begin{aligned}(2) \quad & (2\sqrt{7} - 4)^2 \\ &= 44 - 16\sqrt{7}\end{aligned}$$

$$\begin{aligned}(3) \quad & (2\sqrt{2} + 1)^2 \\ &= 9 + 4\sqrt{2}\end{aligned}$$

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

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

$$\begin{aligned}(6) \quad & (2\sqrt{6} + 4)(\sqrt{6} + 5) \\ &= 32 + 14\sqrt{6}\end{aligned}$$

$$\begin{aligned}(7) \quad & (\sqrt{6} - 2)(\sqrt{6} - 4) \\ &= 14 - 6\sqrt{6}\end{aligned}$$

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

$$\begin{aligned}(9) \quad & (2\sqrt{5} - 2)^2 \\ &= 24 - 8\sqrt{5}\end{aligned}$$

$$\begin{aligned}(10) \quad & (\sqrt{7} - 4)(\sqrt{7} - 1) \\ &= 11 - 5\sqrt{7}\end{aligned}$$

$$\begin{aligned}(11) \quad & (\sqrt{2} - 2)^2 \\ &= 6 - 4\sqrt{2}\end{aligned}$$

$$\begin{aligned}(12) \quad & (\sqrt{5} + 1)(\sqrt{5} - 1) \\ &= 4\end{aligned}$$

$$\begin{aligned}(13) \quad & \sqrt{3}(\sqrt{2} + 4) \\ &= 4\sqrt{3} + \sqrt{6}\end{aligned}$$

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

$$\begin{aligned}(15) \quad & (\sqrt{5} - 3)(\sqrt{5} - 5) \\ &= 20 - 8\sqrt{5}\end{aligned}$$

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

$$\begin{aligned}(17) \quad & (\sqrt{5} + 3)^2 \\ &= 14 + 6\sqrt{5}\end{aligned}$$

$$\begin{aligned}(18) \quad & \sqrt{6}(\sqrt{5} + 1) \\ &= \sqrt{6} + \sqrt{30}\end{aligned}$$

$$\begin{aligned}(19) \quad & (2\sqrt{5} + 4)(\sqrt{5} - 1) \\ &= 6 + 2\sqrt{5}\end{aligned}$$

$$\begin{aligned}(20) \quad & (\sqrt{7} + \sqrt{3})(\sqrt{7} - \sqrt{3}) \\ &= 4\end{aligned}$$