

平方完成 負の係数・発展（20問） 版Iの答え

※ $-(x-2)^2$ のくくり方で、中の符号を変え忘れていないかを見てください。

$$\begin{aligned}(1) \quad & x^2 - 9x - 7 \\ & = (x - 9/2)^2 - 109/4\end{aligned}$$

$$\begin{aligned}(2) \quad & -2x^2 + 4x + 10 \\ & = -2(x - 1)^2 + 12\end{aligned}$$

$$\begin{aligned}(3) \quad & 2x^2 + 5x + 3 \\ & = 2(x + 5/4)^2 - 1/8\end{aligned}$$

$$\begin{aligned}(4) \quad & x^2 - x - 1 \\ & = (x - 1/2)^2 - 5/4\end{aligned}$$

$$\begin{aligned}(5) \quad & x^2 - 5x + 9 \\ & = (x - 5/2)^2 + 11/4\end{aligned}$$

$$\begin{aligned}(6) \quad & -x^2 + 10x - 31 \\ & = -(x - 5)^2 - 6\end{aligned}$$

$$\begin{aligned}(7) \quad & -2x^2 + 8x - 15 \\ & = -2(x - 2)^2 - 7\end{aligned}$$

$$\begin{aligned}(8) \quad & -x^2 - 10x - 31 \\ & = -(x + 5)^2 - 6\end{aligned}$$

$$\begin{aligned}(9) \quad & -2x^2 - 12x - 19 \\ & = -2(x + 3)^2 - 1\end{aligned}$$

$$\begin{aligned}(10) \quad & -x^2 + 4x + 7 \\ & = -(x - 2)^2 + 11\end{aligned}$$

$$\begin{aligned}(11) \quad & -2x^2 + x - 6 \\ & = -2(x - 1/4)^2 - 47/8\end{aligned}$$

$$\begin{aligned}(12) \quad & -2x^2 - 9x - 3 \\ & = -2(x + 9/4)^2 + 57/8\end{aligned}$$

$$\begin{aligned}(13) \quad & -2x^2 + 5x \\ & = -2(x - 5/4)^2 + 25/8\end{aligned}$$

$$\begin{aligned}(14) \quad & 2x^2 + 3x + 3 \\ & = 2(x + 3/4)^2 + 15/8\end{aligned}$$

$$\begin{aligned}(15) \quad & x^2 - 3x + 7 \\ & = (x - 3/2)^2 + 19/4\end{aligned}$$

$$\begin{aligned}(16) \quad & 2x^2 + 9x + 3 \\ & = 2(x + 9/4)^2 - 57/8\end{aligned}$$

$$\begin{aligned}(17) \quad & -2x^2 - 7x - 6 \\ & = -2(x + 7/4)^2 + 1/8\end{aligned}$$

$$\begin{aligned}(18) \quad & -x^2 - 4x - 7 \\ & = -(x + 2)^2 - 3\end{aligned}$$

$$\begin{aligned}(19) \quad & -x^2 - 6x - 9 \\ & = -(x + 3)^2\end{aligned}$$

$$\begin{aligned}(20) \quad & 2x^2 - 3x + 5 \\ & = 2(x - 3/4)^2 + 31/8\end{aligned}$$