

平方完成 負の係数・発展（20問） 版D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。

$$\begin{aligned}(1) \quad & -2x^2 + 9x - 2 \\ & = -2(x - 9/4)^2 + 65/8\end{aligned}$$

$$\begin{aligned}(2) \quad & -x^2 + 10x - 34 \\ & = -(x - 5)^2 - 9\end{aligned}$$

$$\begin{aligned}(3) \quad & x^2 + 5x - 3 \\ & = (x + 5/2)^2 - 37/4\end{aligned}$$

$$\begin{aligned}(4) \quad & -2x^2 - 8x + 1 \\ & = -2(x + 2)^2 + 9\end{aligned}$$

$$\begin{aligned}(5) \quad & 2x^2 + 7x - 1 \\ & = 2(x + 7/4)^2 - 57/8\end{aligned}$$

$$\begin{aligned}(6) \quad & 2x^2 + 5x + 4 \\ & = 2(x + 5/4)^2 + 7/8\end{aligned}$$

$$\begin{aligned}(7) \quad & x^2 - 7x + 9 \\ & = (x - 7/2)^2 - 13/4\end{aligned}$$

$$\begin{aligned}(8) \quad & 2x^2 - 5x - 2 \\ & = 2(x - 5/4)^2 - 41/8\end{aligned}$$

$$\begin{aligned}(9) \quad & -3x^2 + 12x - 2 \\ & = -3(x - 2)^2 + 10\end{aligned}$$

$$\begin{aligned}(10) \quad & -2x^2 + 16x - 25 \\ & = -2(x - 4)^2 + 7\end{aligned}$$

$$\begin{aligned}(11) \quad & -2x^2 + 7x - 3 \\ & = -2(x - 7/4)^2 + 25/8\end{aligned}$$

$$\begin{aligned}(12) \quad & -2x^2 - 7x - 4 \\ & = -2(x + 7/4)^2 + 17/8\end{aligned}$$

$$\begin{aligned}(13) \quad & -x^2 - 6x - 17 \\ & = -(x + 3)^2 - 8\end{aligned}$$

$$\begin{aligned}(14) \quad & -2x^2 + 7x - 1 \\ & = -2(x - 7/4)^2 + 41/8\end{aligned}$$

$$\begin{aligned}(15) \quad & -x^2 + 10x - 20 \\ & = -(x - 5)^2 + 5\end{aligned}$$

$$\begin{aligned}(16) \quad & x^2 + 5x + 1 \\ & = (x + 5/2)^2 - 21/4\end{aligned}$$

$$\begin{aligned}(17) \quad & -2x^2 + 5x - 5 \\ & = -2(x - 5/4)^2 - 15/8\end{aligned}$$

$$\begin{aligned}(18) \quad & -3x^2 - 12x - 21 \\ & = -3(x + 2)^2 - 9\end{aligned}$$

$$\begin{aligned}(19) \quad & x^2 + 7x + 7 \\ & = (x + 7/2)^2 - 21/4\end{aligned}$$

$$\begin{aligned}(20) \quad & -x^2 - 4x + 8 \\ & = -(x + 2)^2 + 12\end{aligned}$$