

平方完成 分数・係数（20問） 版Aの答え

※ x^2 の係数でくくるとき、定数項までくくっていないかを見てください。

$$\begin{aligned}(1) \quad & x^2 - x + 6 \\ & = (x - 1/2)^2 + 23/4\end{aligned}$$

$$\begin{aligned}(2) \quad & x^2 + x + 8 \\ & = (x + 1/2)^2 + 31/4\end{aligned}$$

$$\begin{aligned}(3) \quad & 3x^2 - 30x + 72 \\ & = 3(x - 5)^2 - 3\end{aligned}$$

$$\begin{aligned}(4) \quad & x^2 + 7x + 4 \\ & = (x + 7/2)^2 - 33/4\end{aligned}$$

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

$$\begin{aligned}(6) \quad & 3x^2 - 12x + 6 \\ & = 3(x - 2)^2 - 6\end{aligned}$$

$$\begin{aligned}(7) \quad & x^2 - x + 3 \\ & = (x - 1/2)^2 + 11/4\end{aligned}$$

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

$$\begin{aligned}(9) \quad & x^2 - 5x - 6 \\ & = (x - 5/2)^2 - 49/4\end{aligned}$$

$$\begin{aligned}(10) \quad & 5x^2 - 40x + 78 \\ & = 5(x - 4)^2 - 2\end{aligned}$$

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

$$\begin{aligned}(12) \quad & x^2 + 9x + 9 \\ & = (x + 9/2)^2 - 45/4\end{aligned}$$

$$\begin{aligned}(13) \quad & x^2 + 7x - 4 \\ & = (x + 7/2)^2 - 65/4\end{aligned}$$

$$\begin{aligned}(14) \quad & 4x^2 + 32x + 72 \\ & = 4(x + 4)^2 + 8\end{aligned}$$

$$\begin{aligned}(15) \quad & 4x^2 - 16x + 11 \\ & = 4(x - 2)^2 - 5\end{aligned}$$

$$\begin{aligned}(16) \quad & 2x^2 + 8x + 3 \\ & = 2(x + 2)^2 - 5\end{aligned}$$

$$\begin{aligned}(17) \quad & 4x^2 + 24x + 37 \\ & = 4(x + 3)^2 + 1\end{aligned}$$

$$\begin{aligned}(18) \quad & 4x^2 + 16x + 24 \\ & = 4(x + 2)^2 + 8\end{aligned}$$

$$\begin{aligned}(19) \quad & x^2 - 7x - 9 \\ & = (x - 7/2)^2 - 85/4\end{aligned}$$

$$\begin{aligned}(20) \quad & 3x^2 + 6x + 7 \\ & = 3(x + 1)^2 + 4\end{aligned}$$