

因数分解 発展（20問） 版Eの答え

※ 答えの中に、まだ分解できる因数が残っていないかを確認してください。

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

$$\begin{aligned}(2) \quad & x^2 - xy - 6y^2 - 2x - 9y - 3 \\ & = (x-3y-3)(x+2y+1)\end{aligned}$$

$$\begin{aligned}(3) \quad & 18x^2 + 15x - 18 \\ & = 3(2x+3)(3x-2)\end{aligned}$$

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

$$\begin{aligned}(5) \quad & (x+y)^2 - 2(x+y) - 35 \\ & = (x+y-7)(x+y+5)\end{aligned}$$

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

$$\begin{aligned}(7) \quad & 45x^2 - 45x - 50 \\ & = 5(3x-5)(3x+2)\end{aligned}$$

$$\begin{aligned}(8) \quad & x^2 + xy - 2y^2 + 6y - 4 \\ & = (x-y+2)(x+2y-2)\end{aligned}$$

$$\begin{aligned}(9) \quad & x^4 - 20x^2 + 64 \\ & = (x-4)(x-2)(x+2)(x+4)\end{aligned}$$

$$\begin{aligned}(10) \quad & 20x^2 - 60x - 35 \\ & = 5(2x-7)(2x+1)\end{aligned}$$

$$\begin{aligned}(11) \quad & x^2 - y^2 + 10y - 25 \\ & = (x-y+5)(x+y-5)\end{aligned}$$

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

$$\begin{aligned}(13) \quad & x^4 - 10x^2 + 9 \\ & = (x-3)(x-1)(x+1)(x+3)\end{aligned}$$

$$\begin{aligned}(14) \quad & x^2 - xy - 6y^2 + 5x + 6 \\ & = (x-3y+3)(x+2y+2)\end{aligned}$$

$$\begin{aligned}(15) \quad & x^4 - 26x^2 + 25 \\ & = (x-5)(x-1)(x+1)(x+5)\end{aligned}$$

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

$$\begin{aligned}(17) \quad & (x+y)^2 + 4(x+y) - 5 \\ & = (x+y-1)(x+y+5)\end{aligned}$$

$$\begin{aligned}(18) \quad & 9x^2 + 12x - 45 \\ & = 3(x+3)(3x-5)\end{aligned}$$

$$\begin{aligned}(19) \quad & x^2 - 5xy + 6y^2 - 5x + 11y + 4 \\ & = (x-3y-4)(x-2y-1)\end{aligned}$$

$$\begin{aligned}(20) \quad & (x+y)^2 + 3(x+y) - 10 \\ & = (x+y-2)(x+y+5)\end{aligned}$$