

因数分解 発展（20問） 版D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。

$$\begin{aligned}(1) \quad & (x + y)^2 - 2(x + y) - 15 \\ & = (x + y - 5)(x + y + 3)\end{aligned}$$

$$\begin{aligned}(2) \quad & x^4 - 52x^2 + 576 \\ & = (x - 6)(x - 4)(x + 4)(x + 6)\end{aligned}$$

$$\begin{aligned}(3) \quad & 6x^2 + 33x - 63 \\ & = 3(x + 7)(2x - 3)\end{aligned}$$

$$\begin{aligned}(4) \quad & (x + y)^2 - (x + y) - 30 \\ & = (x + y - 6)(x + y + 5)\end{aligned}$$

$$\begin{aligned}(5) \quad & x^2 - y^2 + 6y - 9 \\ & = (x - y + 3)(x + y - 3)\end{aligned}$$

$$\begin{aligned}(6) \quad & x^2 - 9y^2 - 6x + 12y + 5 \\ & = (x - 3y - 1)(x + 3y - 5)\end{aligned}$$

$$\begin{aligned}(7) \quad & x^2 - y^2 + 10y - 25 \\ & = (x - y + 5)(x + y - 5)\end{aligned}$$

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

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

$$\begin{aligned}(10) \quad & x^2 - 5xy + 6y^2 + 7x - 17y + 12 \\ & = (x - 3y + 4)(x - 2y + 3)\end{aligned}$$

$$\begin{aligned}(11) \quad & x^2 - y^2 + 12y - 36 \\ & = (x - y + 6)(x + y - 6)\end{aligned}$$

$$\begin{aligned}(12) \quad & x^4 - 33x^2 - 108 \\ & = (x - 6)(x + 6)(x^2 + 3)\end{aligned}$$

$$\begin{aligned}(13) \quad & 2x^2 - 18 \\ & = 2(x - 3)(x + 3)\end{aligned}$$

$$\begin{aligned}(14) \quad & x^4 - 3x^2 - 4 \\ & = (x - 2)(x + 2)(x^2 + 1)\end{aligned}$$

$$\begin{aligned}(15) \quad & 4x^2 - 26x + 30 \\ & = 2(x - 5)(2x - 3)\end{aligned}$$

$$\begin{aligned}(16) \quad & (x + y)^2 - 9(x + y) + 20 \\ & = (x + y - 5)(x + y - 4)\end{aligned}$$

$$\begin{aligned}(17) \quad & x^2 + 3xy + 2y^2 - 9x - 14y + 20 \\ & = (x + y - 5)(x + 2y - 4)\end{aligned}$$

$$\begin{aligned}(18) \quad & x^4 - 14x^2 - 32 \\ & = (x - 4)(x + 4)(x^2 + 2)\end{aligned}$$

$$\begin{aligned}(19) \quad & (x + y)^2 - 7(x + y) + 12 \\ & = (x + y - 4)(x + y - 3)\end{aligned}$$

$$\begin{aligned}(20) \quad & 9x^2 - 33x + 30 \\ & = 3(x - 2)(3x - 5)\end{aligned}$$