

因数分解 発展（20問） 版A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。

$$\begin{aligned}(1) \quad & (x+y)^2 - 8(x+y) + 12 \\ & = (x+y-6)(x+y-2)\end{aligned}$$

$$\begin{aligned}(2) \quad & 45x^2 - 125 \\ & = 5(3x-5)(3x+5)\end{aligned}$$

$$\begin{aligned}(3) \quad & x^4 - 61x^2 + 900 \\ & = (x-6)(x-5)(x+5)(x+6)\end{aligned}$$

$$\begin{aligned}(4) \quad & x^2 + 5xy + 6y^2 + 2x + y - 15 \\ & = (x+2y-3)(x+3y+5)\end{aligned}$$

$$\begin{aligned}(5) \quad & (x+y)^2 - 5(x+y) - 14 \\ & = (x+y-7)(x+y+2)\end{aligned}$$

$$\begin{aligned}(6) \quad & x^4 - 16 \\ & = (x-2)(x+2)(x^2+4)\end{aligned}$$

$$\begin{aligned}(7) \quad & x^2 - y^2 + 12y - 36 \\ & = (x-y+6)(x+y-6)\end{aligned}$$

$$\begin{aligned}(8) \quad & 36x^2 - 144x + 140 \\ & = 4(3x-7)(3x-5)\end{aligned}$$

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

$$\begin{aligned}(10) \quad & x^2 - y^2 + 6y - 9 \\ & = (x-y+3)(x+y-3)\end{aligned}$$

$$\begin{aligned}(11) \quad & (x+y)^2 - (x+y) - 42 \\ & = (x+y-7)(x+y+6)\end{aligned}$$

$$\begin{aligned}(12) \quad & x^2 - xy - 6y^2 + x + 22y - 20 \\ & = (x-3y+5)(x+2y-4)\end{aligned}$$

$$\begin{aligned}(13) \quad & 12x^2 + 88x + 140 \\ & = 4(x+5)(3x+7)\end{aligned}$$

$$\begin{aligned}(14) \quad & 12x^2 - 52x + 16 \\ & = 4(x-4)(3x-1)\end{aligned}$$

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

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

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

$$\begin{aligned}(18) \quad & x^4 - 3x^2 - 4 \\ & = (x-2)(x+2)(x^2+1)\end{aligned}$$

$$\begin{aligned}(19) \quad & x^2 - 3xy + 2y^2 + 2x - 8 \\ & = (x-2y+4)(x-y-2)\end{aligned}$$

$$\begin{aligned}(20) \quad & x^2 - y^2 + 10y - 25 \\ & = (x-y+5)(x+y-5)\end{aligned}$$