

因数分解 発展（20問） 版B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。

$$\begin{aligned}(1) \quad & (x + y)^2 + 9(x + y) + 14 \\ & = (x + y + 2)(x + y + 7)\end{aligned}$$

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

$$\begin{aligned}(3) \quad & (x + y)^2 - 8(x + y) + 7 \\ & = (x + y - 7)(x + y - 1)\end{aligned}$$

$$\begin{aligned}(4) \quad & 27x^2 + 27x - 84 \\ & = 3(3x - 4)(3x + 7)\end{aligned}$$

$$\begin{aligned}(5) \quad & x^4 - 52x^2 + 576 \\ & = (x - 6)(x - 4)(x + 4)(x + 6)\end{aligned}$$

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

$$\begin{aligned}(7) \quad & x^4 - 14x^2 - 32 \\ & = (x - 4)(x + 4)(x^2 + 2)\end{aligned}$$

$$\begin{aligned}(8) \quad & x^2 - 3xy + 2y^2 - x + 3y - 2 \\ & = (x - 2y + 1)(x - y - 2)\end{aligned}$$

$$\begin{aligned}(9) \quad & x^2 - y^2 + 12y - 36 \\ & = (x - y + 6)(x + y - 6)\end{aligned}$$

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

$$\begin{aligned}(11) \quad & (x + y)^2 + 10(x + y) + 21 \\ & = (x + y + 3)(x + y + 7)\end{aligned}$$

$$\begin{aligned}(12) \quad & 5x^2 - 15x - 140 \\ & = 5(x - 7)(x + 4)\end{aligned}$$

$$\begin{aligned}(13) \quad & x^2 - xy - 2y^2 + 9x - 3y + 20 \\ & = (x - 2y + 5)(x + y + 4)\end{aligned}$$

$$\begin{aligned}(14) \quad & (x + y)^2 + 10(x + y) + 24 \\ & = (x + y + 4)(x + y + 6)\end{aligned}$$

$$\begin{aligned}(15) \quad & 45x^2 - 45x - 50 \\ & = 5(3x - 5)(3x + 2)\end{aligned}$$

$$\begin{aligned}(16) \quad & x^4 - 24x^2 - 25 \\ & = (x - 5)(x + 5)(x^2 + 1)\end{aligned}$$

$$\begin{aligned}(17) \quad & x^4 - 37x^2 + 36 \\ & = (x - 6)(x - 1)(x + 1)(x + 6)\end{aligned}$$

$$\begin{aligned}(18) \quad & 16x^2 - 196 \\ & = 4(2x - 7)(2x + 7)\end{aligned}$$

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

$$\begin{aligned}(20) \quad & x^2 - y^2 + 8y - 16 \\ & = (x - y + 4)(x + y - 4)\end{aligned}$$