

因数分解 発展（20問） 版F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。

$$\begin{aligned}(1) \quad & 6x^2 + 10x - 56 \\ & = 2(x + 4)(3x - 7)\end{aligned}$$

$$\begin{aligned}(2) \quad & x^2 + 3xy + 2y^2 + 5x + 9y + 4 \\ & = (x + y + 4)(x + 2y + 1)\end{aligned}$$

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

$$\begin{aligned}(4) \quad & x^2 - xy - 6y^2 - 4x - 13y - 5 \\ & = (x - 3y - 5)(x + 2y + 1)\end{aligned}$$

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

$$\begin{aligned}(6) \quad & x^2 + xy - 6y^2 + x + 18y - 12 \\ & = (x - 2y + 4)(x + 3y - 3)\end{aligned}$$

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

$$\begin{aligned}(8) \quad & (x + y)^2 + 4(x + y) + 3 \\ & = (x + y + 1)(x + y + 3)\end{aligned}$$

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

$$\begin{aligned}(10) \quad & x^2 - y^2 + 2y - 1 \\ & = (x - y + 1)(x + y - 1)\end{aligned}$$

$$\begin{aligned}(11) \quad & 10x^2 + 65x + 30 \\ & = 5(x + 6)(2x + 1)\end{aligned}$$

$$\begin{aligned}(12) \quad & 36x^2 + 36x - 112 \\ & = 4(3x - 4)(3x + 7)\end{aligned}$$

$$\begin{aligned}(13) \quad & x^4 - 10x^2 - 96 \\ & = (x - 4)(x + 4)(x^2 + 6)\end{aligned}$$

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

$$\begin{aligned}(15) \quad & x^4 - 32x^2 - 144 \\ & = (x - 6)(x + 6)(x^2 + 4)\end{aligned}$$

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

$$\begin{aligned}(17) \quad & x^4 - 13x^2 + 36 \\ & = (x - 3)(x - 2)(x + 2)(x + 3)\end{aligned}$$

$$\begin{aligned}(18) \quad & 30x^2 + 125x + 70 \\ & = 5(2x + 7)(3x + 2)\end{aligned}$$

$$\begin{aligned}(19) \quad & x^2 + xy - 6y^2 + 2x - 19y - 15 \\ & = (x - 2y - 3)(x + 3y + 5)\end{aligned}$$

$$\begin{aligned}(20) \quad & x^2 - y^2 + 12y - 36 \\ & = (x - y + 6)(x + y - 6)\end{aligned}$$