

年 組 番 名前 _____

／14

次の式を、因数分解しなさい。

$$\begin{aligned}[1] & x^2 + 5x \\ &= x(x+5)\end{aligned}$$

どちらの項にも
xがいますね！

$$\begin{aligned}[2] & a^2 + ab \\ &= a(a+b)\end{aligned}$$

$$\begin{aligned}[3] & 5a - 5b \\ &= 5(a-b)\end{aligned}$$

どちらの項にも
5がいますね！

$$\begin{aligned}[4] & 6ab - 3a \\ &= 3a(2b-1)\end{aligned}$$

$$\begin{aligned}[5] & 2ax + 8bx \\ &= 2x(a + 4b)\end{aligned}$$

$$\begin{aligned}[6] & x^2y + xy^2 \\ &= xy(x+y)\end{aligned}$$

どちらの項にも
xが2つ、yが1つ
いますね！

$$\begin{aligned}[7] & a^3c^2 - abc^2 \\ &= ac^2(a^2 - b)\end{aligned}$$

$$\begin{aligned}[8] & 3x^3y + 9x^2y^2 \\ &= 3x^2y(x + 3y)\end{aligned}$$

$$\begin{aligned}[9] & 2x^3yz - 5x^2y^2 \\ &= x^2y(2xz - 5y)\end{aligned}$$

$$\begin{aligned}[10] & 8ab + 24a^2b^2 \\ &= 8ab(1 + 3ab)\end{aligned}$$

$$\begin{aligned}[11] & ab + ac - ad \\ &= a(b + c - d)\end{aligned}$$

項が3つあるので
注意です！

$$\begin{aligned}[12] & x^2y^2 - xy^2 - xy \\ &= xy(xy - y - 1)\end{aligned}$$

$$\begin{aligned}[13] & 3a^3b^2c + 12a^2b^2c - a^2b^2 \\ &= a^2b^2(3ac + 12c - 1)\end{aligned}$$

$$\begin{aligned}[14] & 5a^3b^2c - 10a^2bc + 15b \\ &= 5b(a^3bc - 2a^2c + 3)\end{aligned}$$

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次の式を、因数分解しなさい。

$$\begin{aligned}[1] ab + 3ac \\ = a(b+3c)\end{aligned}$$

どちらの項にも
aがいますね！

$$\begin{aligned}[2] x^2 + xyz \\ = x(x+yz)\end{aligned}$$

$$\begin{aligned}[3] 2x - 4y \\ = 2(x - 2y)\end{aligned}$$

どちらの項にも
2がいますね！

$$\begin{aligned}[4] 8abc - 3ac \\ = ac(8b - 3)\end{aligned}$$

$$\begin{aligned}[5] 5ax + 10bx \\ = 5x(a + 2b)\end{aligned}$$

$$\begin{aligned}[6] x^3yz + xy^2 \\ = xy(x^2z + y)\end{aligned}$$

どちらの項にも
xとyが1つずつ
いますね！

$$\begin{aligned}[7] abc^3 - ac^4 \\ = ac^3(b - c)\end{aligned}$$

$$\begin{aligned}[8] 10x^3y + 20x^2y \\ = 10x^2y(x + 2)\end{aligned}$$

$$\begin{aligned}[9] 2abc + 4acd \\ = 2ac(b + 2d)\end{aligned}$$

$$\begin{aligned}[10] 4x^4yz - 9x^3y^2 \\ = x^3y(4xz - 9y)\end{aligned}$$

$$\begin{aligned}[11] 2ab + 4bc - 8b \\ = 2b(a + 2c - 4)\end{aligned}$$

項が3つあるので
注意です！

$$\begin{aligned}[12] x^2y^2 - xy^2z - xy^2 \\ = xy^2(x - z - 1)\end{aligned}$$

$$\begin{aligned}[13] 3a^3b^2c - 9a^2b^2d + 6a^2b^2 \\ = 3a^2b^2(ac - 3d + 2)\end{aligned}$$

$$\begin{aligned}[14] a^3b^2c - 8a^2b^2c + 16b^2 \\ = b^2(a^3c - 8a^2c + 16)\end{aligned}$$

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次の式を、因数分解しなさい。

$$\begin{aligned}[1] & a^2 + 3a \\ &= a(a+3)\end{aligned}$$

どちらの項にも
aがいますね！

$$\begin{aligned}[2] & m^2 + mn \\ &= m(m+n)\end{aligned}$$

$$\begin{aligned}[3] & 5a - 10b \\ &= 5(a - 2b)\end{aligned}$$

どちらの項にも
5がいますね！

$$\begin{aligned}[4] & 8xyz - 24xz \\ &= 8xz(y - 3)\end{aligned}$$

$$\begin{aligned}[5] & 12ax + 8bx \\ &= 4x(3a + 2b)\end{aligned}$$

$$\begin{aligned}[6] & 7m^2n^2 + 5m^2n \\ &= m^2n(7n+5)\end{aligned}$$

どちらの項にも
mが2つ、nが1つ
いますね！

$$\begin{aligned}[7] & 2a^3c^2 - 3bc \\ &= c(2a^3c - 3b)\end{aligned}$$

$$\begin{aligned}[8] & 7x^3y^3 + 14x^2y^2 \\ &= 7x^2y^2(xy + 2)\end{aligned}$$

$$\begin{aligned}[9] & 10x^3y + 15xy \\ &= 5xy(2x^2 + 3)\end{aligned}$$

$$\begin{aligned}[10] & 9a^2m + 27a^2m^2 \\ &= 9a^2m(1 + 3m)\end{aligned}$$

$$\begin{aligned}[11] & xyz + axy - bxy \\ &= xy(z + a - b)\end{aligned}$$

項が3つあるので
注意です！

$$\begin{aligned}[12] & m^3n^2 - mn^3 - m^3n \\ &= mn(m^2n - n^2 - m^2)\end{aligned}$$

$$\begin{aligned}[13] & 3a^4b^2c + a^3b^2c - 2a^3b^2 \\ &= a^3b^2(3ac + c - 2)\end{aligned}$$

$$\begin{aligned}[14] & 3x^3y^2z - 9x^2yz + 6xy \\ &= 3xy(x^2yz - 3xz + 2)\end{aligned}$$