

年 組 番 名前

／ 14

次の式を、因数分解しなさい。

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

どちらの項にも  
aがいますね！

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

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

どちらの項にも  
2がいますね！

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

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

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

どちらの項にも  
xとyが1つずつ  
いますね！

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

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

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

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

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

項が3つあるので  
注意です！

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

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

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