

1章(多項式) 1節(多項式の計算)

2. 多項式の乗法

年 組 番

名前

1. 次の式を展開しなさい。

$$(x+4)(x+7)$$

$$\begin{aligned} &= x^2 + 7x + 4x + 28 \\ &= x^2 + 11x + 28 \end{aligned}$$

$$(x-2)(x+5)$$

$$\begin{aligned} &= x^2 + 5x - 2x - 10 \\ &= x^2 + 3x - 10 \end{aligned}$$

$$(x+5)(y-2)$$

$$= xy - 2x + 5y - 10$$

$$(x+a)(x+b)$$

$$= x^2 + ax + bx + ab$$

$$(3x+2)(4y+1)$$

$$= 12xy + 3x + 8y + 2$$

$$(2x+5)(3x+1)$$

$$\begin{aligned} &= 6x^2 + 2x + 15x + 5 \\ &= 6x^2 + 17x + 5 \end{aligned}$$

$$(x+2y)(x-3y)$$

$$\begin{aligned} &= x^2 - 3xy + 2xy - 6y^2 \\ &= x^2 - xy - 6y^2 \end{aligned}$$

$$(2x+3y)(5x-2y)$$

$$\begin{aligned} &= 10x^2 - 4xy + 15xy - 6y^2 \\ &= 10x^2 + 11xy - 6y^2 \end{aligned}$$

$$(x-7)(x-4)$$

$$\begin{aligned} &= x^2 - 4x - 7x + 28 \\ &= x^2 - 11x + 28 \end{aligned}$$

$$(x-5)(x-2)$$

$$\begin{aligned} &= x^2 - 2x - 5x + 10 \\ &= x^2 - 7x + 10 \end{aligned}$$

$$(x+3y)(x+y)$$

$$\begin{aligned} &= x^2 + xy + 3xy + 3y^2 \\ &= x^2 + 4xy + 3y^2 \end{aligned}$$

$$(2x-3y)(5x-y)$$

$$\begin{aligned} &= 10x^2 - 2xy - 15xy + 3y^2 \\ &= 10x^2 - 17xy + 3y^2 \end{aligned}$$