

数 I 数と式

$$[1] (a+b)^2 = a^2 + 2ab + b^2, \quad (a-b)^2 = a^2 - 2ab + b^2$$

$$[2] (a+b)(a-b) = a^2 - b^2$$

$$[3] (x+a)(x+b) = x^2 + (a+b)x + ab$$

1 展開公式①

$$(1) 6b(-2x-5y+6)$$

$$(2) (x+8)(x-9)$$

$$(3) (x+7y)(x+4y)$$

$$(4) (x-3)^2$$

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

$$(6) 2(x-3)(x+5)$$

$$(1) -12bx - 30by + 36b \quad (2) x^2 - x - 72 \quad (3) x^2 + 11xy + 28y^2 \quad (4) x^2 - 6x + 9 \quad (5) x^2 - 25$$

$$(6) 2x^2 + 4x - 30$$

数 I 数と式

$$[1] \quad (a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3, \quad (a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$$

$$[2] \quad (a+b)(a^2 - ab + b^2) = a^3 + b^3, \quad (a-b)(a^2 + ab + b^2) = a^3 - b^3$$

1 展開公式②

$$(1) \quad (x+3)^3$$

$$(2) \quad (x-2)^3$$

$$(3) \quad (2a+3b)^3$$

$$(4) \quad (x+2)(x^2 - 2x + 4)$$

$$(5) \quad (x-3)(x^2 + 3x + 9)$$

$$(6) \quad (3a+2b)(9a^2 - 6ab + 4b^2)$$

$$(1) \quad x^3 + 9x^2 + 27x + 27 \quad (2) \quad x^3 - 6x^2 + 12x - 8 \quad (3) \quad 8a^3 + 36a^2b + 54ab^2 + 27b^3$$

$$(4) \quad x^3 + 8 \quad (5) \quad x^3 - 27 \quad (6) \quad 27a^3 + 8b^3$$