

1章 式と計算 予習まとめ③

5 単項式と単項式の乗法

I 次の計算をなさい。(教科書 P16~17 参照)

$$(1) -3a \times 2b$$

$$= -3 \times 2 \times a \times b$$

$$= -6ab$$

$$(2) (-5x) \times 4y$$

$$= -5 \times 4 \times x \times y$$

$$= -20xy$$

$$(3) 2xy \times 3x^2$$

$$= 2 \times 3 \times xy \times x^2$$

$$= 6x^3y$$

$$(4) (-8x^2) \times (-2x)$$

$$= (-8) \times (-2) \times x^2 \times x$$

$$= 16x^3$$

$$(1) 5x \times 8y \times (-3y)$$

$$= 5 \times 8 \times (-3) \times x \times y \times y$$

$$= -120xy^2$$

$$(2) 7xy \times (-2xy) \times 3y^2$$

$$= 7 \times (-2) \times 3 \times xy \times xy \times y^2$$

$$= -42x^2y^4$$

$$(3) \left(-\frac{5}{3}a\right) \times (-9b) \times 2a$$

$$= \left(-\frac{5}{3}\right) \times (-9) \times 2 \times a \times b \times a$$

$$= 30a^2b$$

$$(4) -2x \times (-4x)^2$$

$$= -2x \times (-4x) \times (-4x)$$

$$= (-2) \times (-4) \times (-4) \times x \times x \times x$$

$$= -32x^3$$

$$(5) (-3a)^3 \times (-5a)$$

$$= (-3a) \times (-3a) \times (-3a) \times (-5a)$$

$$= (-3) \times (-3) \times (-3) \times (-5) \times a \times a \times a \times a$$

$$= 135a^4$$

数どうし・文字どうしの計算

$$4x \times (-5) = -20x$$

累乗→同じものを数回掛け合わせたもの

$$5^3 = 5 \times 5 \times 5 = 125$$

数どうし・文字どうしの計算

$$\cdot 2xy \times 5xz = 10x^2yz$$

$$\cdot 4x \times (-2y)^2 = 4x \times (-2y) \times (-2y)$$

$$= +16xy^2$$