

問1

$$(1) (2x + y) \times 7x = 14x^2 + 7xy$$

$$(2) (3a - b) \times 4a = 12a^2 - 4ab$$

$$(3) (5a - 6b) \times (-2b) = -10ab + 12b^2$$

$$(4) 4x(2x - 1) = 8x^2 - 4x$$

$$(5) 2x(x + 3y) = 2x^2 + 6xy$$

$$(6) -3a(8a + 7b) = -24a^2 - 21ab$$

$$(7) -2x(-3x + 2y) = 6x^2 - 4xy$$

$$(8) (x - 3y - 2) \times 4x = 4x^2 - 12xy - 8x$$

$$(9) -3x(4x - 3y + 2) = -12x^2 + 9xy - 6x$$

$$(10) 3a(-a + 2b - 1) = -3a^2 + 6ab - 3a$$

□多項式と単項式の除法

$$(6a^2 - 9a) \div 3a = \frac{6a^2}{3a} - \frac{9a}{3a} = 2a - 3$$

ばらばらにわってかまわない、これも？「分配法則」

例4

$$(2x^2 + 4xy) \div \frac{2}{3}x = (2x^2 + 4xy) \times \frac{3}{2x} = 3x + 6y$$

? 「逆数」
↓

$$\frac{2}{3}x = \frac{2x}{3} \quad \text{分数の割り算は逆数をかける。}$$

問2

$$(1) (5a^2 - 10x) \div 5x = \frac{5x^2}{5x} - \frac{10x}{5x} = x - 2$$

$$(2) (8a^2 - 2a) \div 2a = \frac{8a^2}{2a} - \frac{2a}{2a} = 4a - 1$$

$$(3) (6ax + 3ay) \div (-3a) = \frac{6ax}{-3a} + \frac{3ay}{-3a} = -2x - y$$

$$(4) (-10x^2 + x) \div \frac{x}{2} = (-10x^2 + x) \times \frac{2}{x} = -20x + 2$$

$$(5) (3x^2 + 6xy) \div \left(-\frac{3}{4}x\right) = (3x^2 + 6xy) \times \frac{-4}{3x} = -4x - 8y$$

$$(6) (15x^2y - 9xy^2) \div \frac{3}{2}xy = (15x^2y - 9xy^2) \times \frac{2}{3xy}$$

$$= 10x - 6y$$