



3年数学課題解答例…① (p. 15)  
参考にしてみてください

□ (1)  $(2x+y) \times 7x$

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

(2)  $(3a-b) \times 4a$

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

(3)  $(5a-6b) \times (-2b)$

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

(4)  $4x(2x-1)$

$$= 4x \times 2x - 4x \times 1$$
$$= 8x^2 - 4x$$

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

$$= 2x \times x + 2x \times 3y$$
$$= 2x^2 + 6xy$$

(6)  $-3a(8a+7b)$

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

(7)  $-2x(-3x+2y)$

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

(8)  $(x-3y-2) \times 4x$

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

(9)  $-3x(4x-3y+2)$

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

(10)  $3a(-a+2b-1)$

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

② (1)  $(5x^2 - 10x) \div 5x$

$$= 5x^2 \div 5x - 10x \div 5x$$
$$= x - 2$$

(2)  $(8a^2 - 2a) \div 2a$

$$= 8a^2 \div 2a - 2a \div 2a$$
$$= 4a - 1$$

(3)  $(6ax + 3ay) \div (-3a)$

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

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

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

(5)  $(3x^2 + 6xy) \div (-\frac{3}{4}x)$

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

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

$$= (15x^2y - 9xy^2) \times \frac{2}{3xy}$$
$$= 15x^2y \times \frac{2}{3xy} - 9xy^2 \times \frac{2}{3xy}$$
$$= 10x - 6y$$



## 3年数学課題解答例…① (p. 16・17)

参考にしてみてください

$$\begin{aligned} \boxed{3} (1) & (a+b)(c-d) \\ & = ac - ad + bc - bd \\ & = ac - ad - bc + bd \end{aligned}$$

$$\begin{aligned} (2) & (a-b)(c-d) \\ & = ac - ad - bc + bd \\ & = ac - ad - bc + bd \end{aligned}$$

$$\begin{aligned} (3) & (x+2)(y+3) \\ & = xy + x \cdot 3 + 2 \cdot y + 2 \cdot 3 \\ & = xy + 3x + 2y + 6 \end{aligned}$$

$$\begin{aligned} (4) & (x-1)(y+4) \\ & = xy + x \cdot 4 - 1 \cdot y - 1 \cdot 4 \\ & = xy + 4x - y - 4 \end{aligned}$$

$$\begin{aligned} \boxed{4} (1) & (x-2)(x-6) \\ & = x \cdot x - x \cdot 6 - 2 \cdot x + 2 \cdot 6 \\ & = x^2 - 6x - 2x + 12 \\ & = x^2 - 8x + 12 \end{aligned}$$

$$\begin{aligned} (2) & (x-4)(x+5) \\ & = x \cdot x + x \cdot 5 - 4 \cdot x - 4 \cdot 5 \\ & = x^2 + 5x - 4x - 20 \\ & = x^2 + x - 20 \end{aligned}$$

$$\begin{aligned} (3) & (2a+1)(a+4) \\ & = 2a^2 + 8a + a + 4 \\ & = 2a^2 + 9a + 4 \\ (4) & (2x-3y)(8x-y) \\ & = 16x^2 - 2xy - 24xy + 3y^2 \\ & = 16x^2 - 26xy + 3y^2 \end{aligned}$$

$$\begin{aligned} \boxed{5} (1) & (3a+2b)(2a+3b) \\ & = 6a^2 + 9ab + 4ab + 6b^2 \\ & = 6a^2 + 13ab + 6b^2 \\ (2) & (9a-2b)(5a+6b) \\ & = 45a^2 + 54ab - 10ab - 12b^2 \\ & = 45a^2 + 44ab - 12b^2 \\ (3) & (7x+4y)(x-5y) \\ & = 7x^2 - 35xy + 4xy - 20y^2 \\ & = 7x^2 - 31xy - 20y^2 \\ (4) & (2x-3y)(8x-y) \\ & = 16x^2 - 2xy - 24xy + 3y^2 \\ & = 16x^2 - 26xy + 3y^2 \end{aligned}$$

$$\begin{aligned} \boxed{6} (1) & (a+1)(a+b-1) \\ & = a^2 + ab - a + a + b - 1 \\ & = a^2 + ab + b - 1 \\ (2) & (a+2b)(2a+b+1) \\ & = 2a^2 + ab + a + 4ab + 2b^2 + 2b \\ & = 2a^2 + 5ab + a + 2b^2 + 2b \\ (3) & (x+2y-1)(2x-y) \\ & = 2x^2 - xy + 4xy - 2y^2 - 2x + y \\ & = 2x^2 + 3xy - 2y^2 - 2x + y \\ (4) & (x-y+3)(3x-2y) \\ & = 3x^2 - 2xy - 3xy + 2y^2 + 9x - 6y \\ & = 3x^2 - 5xy + 2y^2 + 9x - 6y \end{aligned}$$

HPの動画もよろしく！

つづきはまた…