



3年数学課題解答例...① (p. 15)

参考にしてみてください

$$\begin{aligned}\text{① (1)} \quad & (2x+y) \times 7x \\ &= 2x \times 7x + y \times 7x \\ &= 14x^2 + 7xy\end{aligned}$$

$$\begin{aligned}\text{(2)} \quad & (3a-b) \times 4a \\ &= 3a \times 4a - b \times 4a \\ &= 12a^2 - 4ab\end{aligned}$$

$$\begin{aligned}\text{(3)} \quad & (5a-6b) \times (-2b) \\ &= 5a \times (-2b) - 6b \times (-2b) \\ &= -10ab + 12b^2\end{aligned}$$

$$\begin{aligned}\text{(4)} \quad & 4x(2x-1) \\ &= 4x \times 2x - 4x \times 1 \\ &= 8x^2 - 4x\end{aligned}$$

$$\begin{aligned}\text{(5)} \quad & 2x(x+3y) \\ &= 2x \times x + 2x \times 3y \\ &= 2x^2 + 6xy\end{aligned}$$

$$\begin{aligned}\text{(6)} \quad & -3a(8a+7b) \\ &= -3a \times 8a + (-3a) \times 7b \\ &= -24a^2 - 21ab\end{aligned}$$

$$\begin{aligned}\text{(7)} \quad & -2x(-3x+2y) \\ &= -2x \times (-3x) + (-2x) \times 2y \\ &= 6x^2 - 4xy\end{aligned}$$

$$\begin{aligned}\text{(8)} \quad & (x-3y-2) \times 4x \\ &= x \times 4x - 3y \times 4x - 2 \times 4x \\ &= 4x^2 - 12xy - 8x\end{aligned}$$

$$\begin{aligned}\text{(9)} \quad & -3x(4x-3y+2) \\ &= -3x \times 4x - (-3x) \times 3y + (-3x) \times 2 \\ &= -12x^2 + 9xy - 6x\end{aligned}$$

$$\begin{aligned}\text{(10)} \quad & 3a(-a+2b-1) \\ &= 3a \times (-a) + 3a \times 2b - 3a \times 1 \\ &= -3a^2 + 6ab - 3a\end{aligned}$$

$$\begin{aligned}\text{② (1)} \quad & (5x^2-10x) \div 5x \\ &= 5x^2 \div 5x - 10x \div 5x \\ &= x - 2\end{aligned}$$

$$\begin{aligned}\text{(2)} \quad & (8a^2-2a) \div 2a \\ &= 8a^2 \div 2a - 2a \div 2a \\ &= 4a - 1\end{aligned}$$

$$\begin{aligned}\text{(3)} \quad & (6ax+3ay) \div (-3a) \\ &= 6ax \div (-3a) + 3ay \div (-3a) \\ &= -2x - y\end{aligned}$$

$$\begin{aligned}\text{(4)} \quad & (-10x^2+x) \div \frac{x}{2} \\ &= (-10x^2+x) \times \frac{2}{x} \\ &= -10x^2 \times \frac{2}{x} + x \times \frac{2}{x} \\ &= -20x + 2\end{aligned}$$

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

$$\begin{aligned}\text{(6)} \quad & (15x^2y-9xy^2) \div \frac{3}{2}xy \\ &= (15x^2y-9xy^2) \times \frac{2}{3xy} \\ &= 15x^2y \times \frac{2}{3xy} - 9xy^2 \times \frac{2}{3xy} \\ &= 10x - 6y\end{aligned}$$



3年数学課題解答例...① (p. 16・17)

参考にしてみてください

[3] (1) $(a+b)(c-d)$

$$= a \times c - a \times d + b \times c - b \times d$$

$$= ac - ad + bc - bd$$

(2) $(a-b)(c-d)$

$$= a \times c - a \times d - b \times c + b \times d$$

$$= ac - ad - bc + bd$$

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

$$= x \times y + x \times 3 + 2 \times y + 2 \times 3$$

$$= xy + 3x + 2y + 6$$

(4) $(x-1)(y+4)$

$$= x \times y + x \times 4 - 1 \times y - 1 \times 4$$

$$= xy + 4x - y - 4$$

[4] (1) $(x-2)(x-6)$

$$= x \times x - x \times 6 - 2 \times x + 2 \times 6$$

$$= x^2 - 6x - 2x + 12$$

$$= x^2 - 8x + 12$$

(2) $(x-4)(x+5)$

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

$$= x^2 + 5x - 4x - 20$$

$$= x^2 + x - 20$$

(3) $(2a+1)(a+4)$

$$= 2a^2 + 8a + a + 4$$

$$= 2a^2 + 9a + 4$$

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

$$= 16x^2 - 2xy - 24xy + 3y^2$$

$$= 16x^2 - 26xy + 3y^2$$

[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) $(2x-3y)(8x-y)$

$$= 16x^2 - 2xy - 24xy + 3y^2$$

$$= 16x^2 - 26xy + 3y^2$$

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

$$= 3x^2 - 2xy - 3xy + 2y^2 + 9x - 6y$$

$$= 3x^2 - 5xy + 2y^2 + 9x - 6y$$

HPの動画もよろしく！

つづきはまた...