

方程式の解き方 (5)

【1】 次の方程式を解きなさい。

$$(1) -6 = 6 + 3x$$

$$-3x = 6 + 6$$

$$-3x = 12$$

$$x = -4$$

$$(3) 4x - 3 = 2x + 7$$

$$4x - 2x = 7 + 3$$

$$2x = 10$$

$$x = 5$$

$$(5) 5x - 2 = x - 10$$

$$5x - x = -10 + 2$$

$$4x = -8$$

$$x = -2$$

$$(7) 10x - 7 = 3(x + 14) \quad \left. \begin{array}{l} \\ \end{array} \right\} () \text{ をはずす}$$

$$10x - 7 = 3x + 42$$

$$7x = 49$$

$$x = 7$$

$$(9) 0.9x - 0.2 = x - 0.8 \quad \left. \begin{array}{l} \\ \end{array} \right\} \begin{array}{l} \text{両辺に} \\ 10 \text{ をかける} \end{array}$$

$$9x - 2 = 10x - 8$$

$$-x = -6$$

$$x = 6$$

$$(11) \frac{x-12}{4} = \frac{5-x}{3} \quad \left. \begin{array}{l} \\ \end{array} \right\} \begin{array}{l} \text{両辺に} \\ 12 \text{ をかける} \end{array}$$

$$3x - 36 = 20 - 4x$$

$$3x + 4x = 20 + 36$$

$$7x = 56$$

$$x = 8$$

$$(2) 3x = 8 - 5x$$

$$3x + 5x = 8$$

$$8x = 8$$

$$x = 1$$

$$(4) 7x + 6 = 2x - 9$$

$$7x - 2x = -9 - 6$$

$$5x = -15$$

$$x = -3$$

$$(6) 11 + 4x = 6x + 3$$

$$4x - 6x = 3 - 11$$

$$-2x = -8$$

$$x = 4$$

$$(8) 5(3x + 2) = 2(2x + 5) \quad \left. \begin{array}{l} \\ \end{array} \right\} () \text{ をはずす}$$

$$15x + 10 = 4x + 10$$

$$11x = 0$$

$$x = 0$$

$$(10) 0.2x + 0.3 = 0.06x + 1 \quad \left. \begin{array}{l} \\ \end{array} \right\} \begin{array}{l} \text{両辺に} \\ 100 \text{ をかける} \end{array}$$

$$20x + 30 = 6x + 100$$

$$14x = 70$$

$$x = 5$$

$$(12) \frac{x+4}{2} = \frac{x-2}{5} \quad \left. \begin{array}{l} \\ \end{array} \right\} \begin{array}{l} \text{両辺に} \\ 10 \text{ をかける} \end{array}$$

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

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

$$3x = -24$$

$$x = -8$$