

1次方程式の解き方 (小数, 分数 1)

NO. 2

名前

/5 点

◆ 次の方程式を解きなさい。

$$(1) \quad 9x - \frac{1}{2} = 1$$

$$(2) \quad x = \frac{1}{5}x + 12$$

$$(3) \quad \frac{2}{5}x + 3 = \frac{x - 2}{3}$$

$$(4) \quad \frac{x - 5}{4} = \frac{x - 1}{3}$$

$$(5) \quad -0.9x + 2 = 0.6x + 1.3$$

解答

$$(1) \quad 9x - \frac{1}{2} = 1$$

$$2 \left(9x - \frac{1}{2} \right) = 2 \times 1$$

$$18x - 1 = 2$$

$$18x = 2 + 1$$

$$18x = 3$$

$$x = \frac{1}{6}$$

$$(2) \quad x = \frac{1}{5}x + 12$$

$$5x = 5 \left(\frac{1}{5}x + 12 \right)$$

$$5x = x + 60$$

$$5x - x = 60$$

$$4x = 60$$

$$x = 15$$

$$(3) \quad \frac{2}{5}x + 3 = \frac{x - 2}{3}$$

$$15 \left(\frac{2}{5}x + 3 \right) = 15 \left(\frac{x - 2}{3} \right)$$

$$6x + 45 = 5x - 10$$

$$6x - 5x = -10 - 45$$

$$x = -55$$

$$(4) \quad \frac{x - 5}{4} = \frac{x - 1}{3}$$

$$12 \left(\frac{x - 5}{4} \right) = 12 \left(\frac{x - 1}{3} \right)$$

$$3x - 15 = 4x - 4$$

$$3x - 4x = -4 + 15$$

$$-1x = 11$$

$$x = -11$$

$$\begin{aligned}(5) \quad & -0.9x + 2 = 0.6x + 1.3 \\ & 10(-0.9x + 2) = 10(0.6x + 1.3) \\ & -9x + 20 = 6x + 13 \\ & -9x - 6x = 13 - 20 \\ & -15x = -7 \\ & x = \frac{7}{15}\end{aligned}$$