

1 次方程式の解き方（小数、分数 1）

NO. 1

名前

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点

◆ 次の方程式を解きなさい。

(1) $3x - \frac{1}{2} = 1$

(2) $x = \frac{1}{6}x + 3$

(3) $\frac{2}{3}x + 6 = \frac{x - 1}{2}$

(4) $\frac{x - 2}{3} = \frac{x - 1}{5}$

(5) $-0.4x + 3 = 0.3x + 1.6$

解答

$$(1) \quad 3x - \frac{1}{2} = 1$$

$$2(3x - \frac{1}{2}) = 2 \times 1$$

$$6x - 1 = 2$$

$$6x = 2 + 1$$

$$6x = 3$$

$$x = \frac{1}{2}$$

$$(2) \quad x = \frac{1}{6}x + 3$$

$$6x = 6(\frac{1}{6}x + 3)$$

$$6x = x + 18$$

$$6x - x = 18$$

$$5x = 18$$

$$x = \frac{18}{5}$$

$$(3) \quad \frac{2}{3}x + 6 = \frac{x - 1}{2}$$

$$6(\frac{2}{3}x + 6) = 6(\frac{x - 1}{2})$$

$$4x + 36 = 3x - 3$$

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

$$x = -39$$

$$(4) \quad \frac{x - 2}{3} = \frac{x - 1}{5}$$

$$15(\frac{x - 2}{3}) = 15(\frac{x - 1}{5})$$

$$5x - 10 = 3x - 3$$

$$5x - 3x = -3 + 10$$

$$2x = 7$$

$$x = \frac{7}{2}$$

$$(5) \quad -0.4x + 3 = 0.3x + 1.6$$
$$10(-0.4x + 3) = 10(0.3x + 1.6)$$
$$-4x + 30 = 3x + 16$$
$$-4x - 3x = 16 - 30$$
$$-7x = -14$$
$$x = 2$$