

1次方程式⑧ 解答と解説

- 1 解答 (1) $x = -2$ (2) $x = 7$ (3) $x = 6$ (4) $x = 9$
 (5) $x = 1$ (6) $x = 3$ (7) $x = -6$ (8) $x = 1$

(1) $x + 18 = -8x$

$$x + 8x = -18$$

$$9x = -18$$

$$x = -2$$

(2) $6x + 9 = 8x - 5$

+9 と 8x を移項すると

$$6x - 8x = -5 - 9$$

$$-2x = -14$$

$$x = 7$$

(3) $-3x + 12 = -8x + 42$

+12 と -8x を移項すると

$$-3x + 8x = 42 - 12$$

$$5x = 30$$

$$x = 6$$

(4) $9x - 13 = 6x + 14$

-13 と 6x を移項すると

$$9x - 6x = 14 + 13$$

$$3x = 27$$

$$x = 9$$

(5) $-2(x - 2) = x + 1$

$$-2x + 4 = x + 1$$

$$-3x = -3$$

$$x = 1$$

(6) $x - 4(3 - x) = 3$

$$x - 12 + 4x = 3$$

$$5x = 15$$

$$x = 3$$

(7) $\frac{1}{2}x + 1 = \frac{5}{6}x + 3$

両辺に 6 をかけると

$$\left(\frac{1}{2}x + 1\right) \times 6 = \left(\frac{5}{6}x + 3\right) \times 6$$

$$3x + 6 = 5x + 18$$

$$3x - 5x = 18 - 6$$

$$-2x = 12$$

$$x = -6$$

(8) $\frac{2}{3} : 2 = x : 3$

$$\frac{2}{3} \times 3 = 2 \times x$$

$$2 = 2x$$

$$2x = 2$$

$$x = 1$$

- 2 解答 (1) $x = -6$ (2) $x = -2$

(1) $4x - 7 = 6x + 5$

$$-2x = 12$$

$$x = -6$$

(2) $2(x + 8) = x + 14$

$$2x + 16 = x + 14$$

$$x = -2$$