

1次方程式 ⑨

P80

次の方程式を解きなさい。

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

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

$$3x - 2 = -2x + 18$$

$$3x + 2x = 18 + 2$$

$$5x = 20$$

$$x = 4$$

$$(2) \quad \frac{x+5}{6} = \frac{3x+1}{4}$$

$$12 \times \left(\frac{x+5}{6} \right) = 12 \times \left(\frac{3x+1}{4} \right)$$

$$2(x+5) = 3(3x+1)$$

$$2x + 10 = 9x + 3$$

$$2x - 9x = 3 - 10$$

$$-7x = -7$$

$$x = 1$$

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

$$10 \times \left(\frac{x+2}{2} \right) = 10 \times \left(\frac{x-3}{5} \right)$$

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

$$5x + 10 = 2x - 6$$

$$5x - 2x = -6 - 10$$

$$3x = -16$$

$$x = -\frac{16}{3}$$

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

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

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

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

$$3x = 2 + 1$$

$$3x = 3$$

$$x = 1$$