

等式の性質② 解答と解説」

1 [解答] (1) $x = -17$ (2) $x = 5$ (3) $x = -18$ (4) $x = 6$ (5) $x = -2$

(6) $x = -49$ (7) $x = 0$

(1) $x + 9 = -8$

両辺から9をひくと

$$x + 9 - 9 = -8 - 9$$

$$x = -17$$

(2) $-7x = -35$

両辺を-7でわると

$$\frac{-7x}{-7} = \frac{-35}{-7}$$

$$x = 5$$

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

両辺に-3をかけると

$$-\frac{x}{3} \times (-3) = 6 \times (-3)$$

$$x = -18$$

(4) $8x = 48$

両辺を8でわると

$$\frac{8x}{8} = \frac{48}{8}$$

$$x = 6$$

(5) $-10 + x = -12$

両辺に10をたすと

$$-10 + x + 10 = -12 + 10$$

$$x = -2$$

(6) $\frac{1}{7}x = -7$

両辺に7をかけると

$$\frac{1}{7}x \times 7 = -7 \times 7$$

$$x = -49$$

(7) $x - 15 = -15$

両辺に15をたすと

$$x - 15 + 15 = -15 + 15$$

$$x = 0$$

2 [解答] (1) $x = \frac{1}{2}$ (2) $x = -\frac{1}{4}$ (3) $x = 12$ (4) $x = -4$

(1) $6x = 3$

両辺を6でわると

$$\frac{6x}{6} = \frac{3}{6}$$

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

(2) $8x = -2$

両辺を8でわると

$$\frac{8x}{8} = \frac{-2}{8}$$

$$x = -\frac{1}{4}$$

(3) $\frac{3}{4}x = 9$

両辺に $\frac{4}{3}$ をかけると

$$\frac{3}{4}x \times \frac{4}{3} = 9 \times \frac{4}{3}$$

$$x = 12$$

(4) $-\frac{5}{2}x = 10$

両辺に $-\frac{2}{5}$ をかけると

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

$$x = -4$$