

# 1次方程式

年 組 名前

/14

■ 次の方程式を解きなさい。

①  $1 = -7 - 20x$

②  $-9x = 6 + x$

③  $4 = 5 + x$

④  $-x = -7x + 9$

⑤  $-7x - 9(x + 1) = 2(20 - x)$

⑥  $-29 = -1 + 8(x - 1)$

⑦  $-35 = -3x - 5(3x + 1)$

⑧  $-0.5 = 0.1 - 0.9x$

⑨  $-0.8 = -0.2 - 0.5x$

⑩  $-3.1 = -0.3 - 1.6x$

⑪  $-\frac{1}{2}x - \frac{1}{2} = \frac{1}{4} + 2x$

⑫  $\frac{5}{6}x + \frac{1}{6} = -\frac{1}{2} - \frac{5}{18}x$

⑬  $\frac{1}{3}x - \frac{1}{2} = -\frac{2}{3} - \frac{2}{3}x$

⑭  $-2x + \frac{1}{2} = -2 + 2x$

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■ 次の方程式を解きなさい。

①  $1 = -7 - 20x$

$$20x = -7 - 1$$

$$20x = -8$$

$$5x = -2$$

$$x = -\frac{2}{5}$$

②  $-9x = 6 + x$

$$-9x - x = 6$$

$$-10x = 6$$

$$5x = -3$$

$$x = -\frac{3}{5}$$

③  $4 = 5 + x$

$$-x = 5 - 4$$

$$-x = 1$$

$$x = -1$$

④  $-x = -7x + 9$

$$-x + 7x = 9$$

$$6x = 9$$

$$2x = 3$$

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

⑤  $-7x - 9(x + 1) = 2(20 - x)$

$$-16x - 9 = 40 - 2x$$

$$-16x + 2x = 40 + 9$$

$$-14x = 49$$

$$2x = -7$$

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

⑥  $-29 = -1 + 8(x - 1)$

$$-29 = 8x - 9$$

$$-8x = -9 + 29$$

$$-8x = 20$$

$$2x = -5$$

$$x = -\frac{5}{2}$$

⑦  $-35 = -3x - 5(3x + 1)$

$$-35 = -18x - 5$$

$$18x = -5 + 35$$

$$18x = 30$$

$$3x = 5$$

$$x = \frac{5}{3}$$

⑧  $-0.5 = 0.1 - 0.9x$

$$-5 = 1 - 9x$$

$$9x = 1 + 5$$

$$9x = 6$$

$$3x = 2$$

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

⑨  $-0.8 = -0.2 - 0.5x$

$$-8 = -2 - 5x$$

$$5x = -2 + 8$$

$$5x = 6$$

$$x = \frac{6}{5}$$

⑩  $-3.1 = -0.3 - 1.6x$

$$-31 = -3 - 16x$$

$$16x = -3 + 31$$

$$16x = 28$$

$$4x = 7$$

$$x = \frac{7}{4}$$

⑪  $-\frac{1}{2}x - \frac{1}{2} = \frac{1}{4} + 2x$

両辺に 4 をかけて

$$-2x - 2 = 1 + 8x$$

$$-10x = 3$$

$$x = -\frac{3}{10}$$

⑫  $\frac{5}{6}x + \frac{1}{6} = -\frac{1}{2} - \frac{5}{18}x$

両辺に 18 をかけて

$$15x + 3 = -9 - 5x$$

$$20x = -12$$

$$x = -\frac{3}{5}$$

⑬  $\frac{1}{3}x - \frac{1}{2} = -\frac{2}{3} - \frac{2}{3}x$

両辺に 6 をかけて

$$2x - 3 = -4 - 4x$$

$$6x = -1$$

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

⑭  $-2x + \frac{1}{2} = -2 + 2x$

両辺に 2 をかけて

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

$$-8x = -5$$

$$x = \frac{5}{8}$$