

# 1次方程式

年 組 名前

/14

■ 次の方程式を解きなさい。

①  $-6x - 45 = -24x - 3$

②  $-8 = x - 9$

③  $-x + 3 = 0$

④  $-2 + 3x = -9x + 19$

⑤  $-90 = 9(x - 1)$

⑥  $1 + 4(x + 4) = -7(1 + 2x)$

⑦  $-5(3x + 1) - 3x = 7$

⑧  $1.5x - 0.8 = 1$

⑨  $-0.2 - 0.8x = -0.9x$

⑩  $-0.3 - 0.6x = -0.6 - 0.1x$

⑪  $-\frac{3}{16}x + \frac{3}{4} = -\frac{3}{4} - \frac{1}{2}x$

⑫  $\frac{5}{6}x - \frac{4}{9} = -\frac{5}{9} + \frac{8}{9}x$

⑬  $-\frac{1}{12}x + \frac{1}{2} = -\frac{5}{6} - \frac{5}{12}x$

⑭  $\frac{1}{6}x + \frac{7}{18} = \frac{1}{2} + \frac{1}{18}x$

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①  $-6x - 45 = -24x - 3$

$$-6x + 24x = -3 + 45$$

$$18x = 42$$

$$3x = 7$$

$$x = \frac{7}{3}$$

②  $-8 = x - 9$

$$-x = -9 + 8$$

$$-x = -1$$

$$x = 1$$

③  $-x + 3 = 0$

$$-x = -3$$

$$x = 3$$

④  $-2 + 3x = -9x + 19$

$$3x + 9x = 19 + 2$$

$$12x = 21$$

$$4x = 7$$

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

⑤  $-90 = 9(x - 1)$

$$-90 = 9x - 9$$

$$-9x = -9 + 90$$

$$-9x = 81$$

$$x = -9$$

⑥  $1 + 4(x + 4) = -7(1 + 2x)$

$$4x + 17 = -7 - 14x$$

$$4x + 14x = -7 - 17$$

$$18x = -24$$

$$3x = -4$$

$$x = -\frac{4}{3}$$

⑦  $-5(3x + 1) - 3x = 7$

$$-18x - 5 = 7$$

$$-18x = 7 + 5$$

$$-18x = 12$$

$$3x = -2$$

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

⑧  $1.5x - 0.8 = 1$

$$15x - 8 = 10$$

$$15x = 10 + 8$$

$$15x = 18$$

$$5x = 6$$

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

⑨  $-0.2 - 0.8x = -0.9x$

$$-2 - 8x = -9x$$

$$-8x + 9x = 2$$

$$x = 2$$

⑩  $-0.3 - 0.6x = -0.6 - 0.1x$

$$-3 - 6x = -6 - x$$

$$-6x + x = -6 + 3$$

$$-5x = -3$$

$$5x = 3$$

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

⑪  $-\frac{3}{16}x + \frac{3}{4} = -\frac{3}{4} - \frac{1}{2}x$

両辺に 16 をかけて

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

$$5x = -24 \quad x = -\frac{24}{5}$$

⑫  $\frac{5}{6}x - \frac{4}{9} = -\frac{5}{9} + \frac{8}{9}x$

両辺に 18 をかけて

$$15x - 8 = -10 + 16x$$

$$-x = -2 \quad x = 2$$

⑬  $-\frac{1}{12}x + \frac{1}{2} = -\frac{5}{6} - \frac{5}{12}x$

両辺に 12 をかけて

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

$$4x = -16 \quad x = -4$$

⑭  $\frac{1}{6}x + \frac{7}{18} = \frac{1}{2} + \frac{1}{18}x$

両辺に 18 をかけて

$$3x + 7 = 9 + x$$

$$2x = 2 \quad x = 1$$