

1次方程式

年 組 名前

/14

■ 次の方程式を解きなさい。

① $17 = -20x + 5$

② $5x = x - 6$

③ $5x - 8 = -4$

④ $-3 - 4x = 8x - 18$

⑤ $-5(1 - 2x) = -10$

⑥ $-x - 39 = -2(2 - 3x)$

⑦ $6(7x - 1) = -13$

⑧ $0.2 + 0.2x = 0.5 - 0.7x$

⑨ $-1.2 = -0.8 - 0.6x$

⑩ $-0.3x - 3.8 = 0.4 + 2.1x$

⑪ $\frac{1}{9}x - \frac{2}{9} = \frac{1}{2} - \frac{4}{9}x$

⑫ $-\frac{3}{8}x + \frac{3}{16} = -\frac{9}{16} + \frac{1}{8}x$

⑬ $-\frac{1}{2}x + \frac{1}{14} = -\frac{3}{14} - \frac{3}{7}x$

⑭ $-\frac{4}{9}x - \frac{5}{18} = \frac{1}{6} - \frac{7}{9}x$

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■ 次の方程式を解きなさい。

① $17 = -20x + 5$

$$20x = 5 - 17$$

$$20x = -12$$

$$5x = -3$$

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

② $5x = x - 6$

$$5x - x = -6$$

$$4x = -6$$

$$2x = -3$$

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

③ $5x - 8 = -4$

$$5x = -4 + 8$$

$$5x = 4$$

$$x = \frac{4}{5}$$

④ $-3 - 4x = 8x - 18$

$$-4x - 8x = -18 + 3$$

$$-12x = -15$$

$$4x = 5$$

$$x = \frac{5}{4}$$

⑤ $-5(1 - 2x) = -10$

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

$$10x = -10 + 5$$

$$10x = -5$$

$$2x = -1$$

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

⑥ $-x - 39 = -2(2 - 3x)$

$$-x - 39 = -4 + 6x$$

$$-x - 6x = -4 + 39$$

$$-7x = 35$$

$$x = -5$$

⑦ $6(7x - 1) = -13$

$$42x - 6 = -13$$

$$42x = -13 + 6$$

$$42x = -7$$

$$6x = -1$$

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

⑧ $0.2 + 0.2x = 0.5 - 0.7x$

$$2 + 2x = 5 - 7x$$

$$2x + 7x = 5 - 2$$

$$9x = 3$$

$$3x = 1$$

$$x = \frac{1}{3}$$

⑨ $-1.2 = -0.8 - 0.6x$

$$-12 = -8 - 6x$$

$$6x = -8 + 12$$

$$6x = 4$$

$$3x = 2$$

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

⑩ $-0.3x - 3.8 = 0.4 + 2.1x$

$$-3x - 38 = 4 + 21x$$

$$-3x - 21x = 4 + 38$$

$$-24x = 42$$

$$4x = -7$$

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

⑪ $\frac{1}{9}x - \frac{2}{9} = \frac{1}{2} - \frac{4}{9}x$

両辺に 18 をかけて

$$2x - 4 = 9 - 8x$$

$$10x = 13$$

$$x = \frac{13}{10}$$

⑫ $-\frac{3}{8}x + \frac{3}{16} = -\frac{9}{16} + \frac{1}{8}x$

両辺に 16 をかけて

$$-6x + 3 = -9 + 2x$$

$$-8x = -12$$

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

⑬ $-\frac{1}{2}x + \frac{1}{14} = -\frac{3}{14} - \frac{3}{7}x$

両辺に 14 をかけて

$$-7x + 1 = -3 - 6x$$

$$-x = -4$$

$$x = 4$$

⑭ $-\frac{4}{9}x - \frac{5}{18} = \frac{1}{6} - \frac{7}{9}x$

両辺に 18 をかけて

$$-8x - 5 = 3 - 14x$$

$$6x = 8$$

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