

1次方程式

____年 ____組 名前

/14

■ 次の方程式を解きなさい。

① $-6 = -2 - 16x$

② $-4x + 10 = 6 - 14x$

③ $4x - 11 = -2x - 2$

④ $12 + 2x = 3x + 5$

⑤ $3(3x - 13) = -9(x + 1) - 7x$

⑥ $5x - 8(1 - 5x) = 5(x + 4) + 4$

⑦ $-6(1 - 4x) = 3(x - 13) - 2$

⑧ $-0.9 - x = 2.6$

⑨ $-0.2x - 0.2 = 0.3 - 0.1x$

⑩ $0.3x - 1 = 0.4 + 0.9x$

⑪ $-\frac{5}{6}x - \frac{3}{4} = \frac{1}{2} - \frac{3}{4}x$

⑫ $\frac{7}{8}x + \frac{5}{8} = \frac{3}{4} - \frac{7}{8}x$

⑬ $\frac{5}{6}x - \frac{1}{6} = \frac{1}{4} - \frac{2}{3}x$

⑭ $-2x + \frac{1}{5} = \frac{3}{5} + 2x$

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■ 次の方程式を解きなさい。

① $-6 = -2 - 16x$

$$16x = -2 + 6$$

$$16x = 4$$

$$4x = 1$$

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

② $-4x + 10 = 6 - 14x$

$$-4x + 14x = 6 - 10$$

$$10x = -4$$

$$5x = -2$$

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

③ $4x - 11 = -2x - 2$

$$4x + 2x = -2 + 11$$

$$6x = 9$$

$$2x = 3$$

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

④ $12 + 2x = 3x + 5$

$$2x - 3x = 5 - 12$$

$$-x = -7$$

$$x = 7$$

⑤ $3(3x - 13) = -9(x + 1) - 7x$

$$9x - 39 = -16x - 9$$

$$9x + 16x = -9 + 39$$

$$25x = 30$$

$$5x = 6$$

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

⑥ $5x - 8(1 - 5x) = 5(x + 4) + 4$

$$-8 + 45x = 5x + 24$$

$$45x - 5x = 24 + 8$$

$$40x = 32$$

$$5x = 4$$

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

⑦ $-6(1 - 4x) = 3(x - 13) - 2$

$$-6 + 24x = 3x - 41$$

$$24x - 3x = -41 + 6$$

$$21x = -35$$

$$3x = -5$$

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

⑧ $-0.9 - x = 2.6$

$$-9 - 10x = 26$$

$$-10x = 26 + 9$$

$$-10x = 35$$

$$2x = -7$$

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

⑨ $-0.2x - 0.2 = 0.3 - 0.1x$

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

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

$$-x = 5$$

$$x = -5$$

⑩ $0.3x - 1 = 0.4 + 0.9x$

$$3x - 10 = 4 + 9x$$

$$3x - 9x = 4 + 10$$

$$-6x = 14$$

$$3x = -7$$

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

⑪ $-\frac{5}{6}x - \frac{3}{4} = \frac{1}{2} - \frac{3}{4}x$

両辺に 12 をかけて

$$-10x - 9 = 6 - 9x$$

$$-x = 15$$

$$x = -15$$

⑫ $\frac{7}{8}x + \frac{5}{8} = \frac{3}{4} - \frac{7}{8}x$

両辺に 8 をかけて

$$7x + 5 = 6 - 7x$$

$$14x = 1$$

$$x = \frac{1}{14}$$

⑬ $\frac{5}{6}x - \frac{1}{6} = \frac{1}{4} - \frac{2}{3}x$

両辺に 12 をかけて

$$10x - 2 = 3 - 8x$$

$$18x = 5$$

$$x = \frac{5}{18}$$

⑭ $-2x + \frac{1}{5} = \frac{3}{5} + 2x$

両辺に 5 をかけて

$$-10x + 1 = 3 + 10x$$

$$-20x = 2$$

$$x = -\frac{1}{10}$$