

1次方程式

____年 ____組 名前

/14

■ 次の方程式を解きなさい。

① $-9 + 23x = -34 + 3x$

② $x + 5 = -1 - 8x$

③ $61 = -2 + 7x$

④ $-9x + 8 = -5x + 7$

⑤ $50 = -2x - 5(5x - 1)$

⑥ $-2(22x + 1) - x = 7$

⑦ $-5(9 + x) - 1 = 3(x - 2)$

⑧ $0.7 = -0.9 - 2x$

⑨ $-0.1 = -0.3 - 0.1x$

⑩ $-1.4 + 0.4x = 2.4x - 0.2$

⑪ $\frac{1}{3}x + \frac{3}{4} = -\frac{1}{12} - \frac{1}{2}x$

⑫ $\frac{1}{2}x - \frac{3}{4} = \frac{1}{12} + \frac{3}{4}x$

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

⑭ $\frac{5}{8}x - \frac{5}{8} = \frac{7}{16} - \frac{5}{8}x$

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■ 次の方程式を解きなさい。

① $-9 + 23x = -34 + 3x$

$$23x - 3x = -34 + 9$$

$$20x = -25$$

$$4x = -5$$

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

② $x + 5 = -1 - 8x$

$$x + 8x = -1 - 5$$

$$9x = -6$$

$$3x = -2$$

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

③ $61 = -2 + 7x$

$$-7x = -2 - 61$$

$$-7x = -63$$

$$x = 9$$

④ $-9x + 8 = -5x + 7$

$$-9x + 5x = 7 - 8$$

$$-4x = -1$$

$$4x = 1$$

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

⑤ $50 = -2x - 5(5x - 1)$

$$50 = -27x + 5$$

$$27x = 5 - 50$$

$$27x = -45$$

$$3x = -5$$

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

⑥ $-2(22x + 1) - x = 7$

$$-45x - 2 = 7$$

$$-45x = 7 + 2$$

$$-45x = 9$$

$$5x = -1$$

$$x = -\frac{1}{5}$$

⑦ $-5(9 + x) - 1 = 3(x - 2)$

$$-46 - 5x = 3x - 6$$

$$-5x - 3x = -6 + 46$$

$$-8x = 40$$

$$x = -5$$

⑧ $0.7 = -0.9 - 2x$

$$7 = -9 - 20x$$

$$20x = -9 - 7$$

$$20x = -16$$

$$5x = -4$$

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

⑨ $-0.1 = -0.3 - 0.1x$

$$-1 = -3 - x$$

$$x = -3 + 1$$

$$x = -2$$

⑩ $-1.4 + 0.4x = 2.4x - 0.2$

$$-14 + 4x = 24x - 2$$

$$4x - 24x = -2 + 14$$

$$-20x = 12$$

$$5x = -3$$

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

⑪ $\frac{1}{3}x + \frac{3}{4} = -\frac{1}{12} - \frac{1}{2}x$

両辺に 12 をかけて

$$4x + 9 = -1 - 6x$$

$$10x = -10$$

$$x = -1$$

⑫ $\frac{1}{2}x - \frac{3}{4} = \frac{1}{12} + \frac{3}{4}x$

両辺に 12 をかけて

$$6x - 9 = 1 + 9x$$

$$-3x = 10$$

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

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

両辺に 12 をかけて

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

$$4x = 5$$

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

⑭ $\frac{5}{8}x - \frac{5}{8} = \frac{7}{16} - \frac{5}{8}x$

両辺に 16 をかけて

$$10x - 10 = 7 - 10x$$

$$20x = 17$$

$$x = \frac{17}{20}$$