

1次方程式

年 組 名前

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■ 次の方程式を解きなさい。

① $4x - 5(1 - x) = -50$

⑤ $-3(2x - 3) = 27$

⑨ $-60 = -3(2 + 3x)$

② $-49 = -4(1 - 9x)$

⑥ $-9(1 - x) + x = -3(2x - 5)$

⑩ $3(2x - 9) = 6(3x - 1)$

③ $-5x - 7(1 + x) = 1 + 4(x + 1)$

⑦ $3 - 5(x - 9) = 8(5x + 1) + 3x$

⑪ $3(2 - 3x) = -x - 2(7x - 1)$

④ $5(x - 11) - 2 = -9(1 + 3x) - 8x$

⑧ $-3x - 4(5x - 1) = -8(2 + x) - 5$

⑫ $-1 - 4(x + 5) = -5x + 7(1 - x)$

■ 次の方程式を解きなさい。

① $4x - 5(1 - x) = -50$

$$-5 + 9x = -50$$

$$9x = -50 + 5$$

$$9x = -45$$

$$x = -5$$

② $-49 = -4(1 - 9x)$

$$-49 = -4 + 36x$$

$$-36x = -4 + 49$$

$$-36x = 45$$

$$4x = -5$$

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

③ $-5x - 7(1 + x) = 1 + 4(x + 1)$

$$-7 - 12x = 4x + 5$$

$$-12x - 4x = 5 + 7$$

$$-16x = 12$$

$$4x = -3$$

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

④ $5(x - 11) - 2 = -9(1 + 3x) - 8x$

$$5x - 57 = -9 - 35x$$

$$5x + 35x = -9 + 57$$

$$40x = 48$$

$$5x = 6$$

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

⑤ $-3(2x - 3) = 27$

$$-6x + 9 = 27$$

$$-6x = 27 - 9$$

$$-6x = 18$$

$$x = -3$$

⑥ $-9(1 - x) + x = -3(2x - 5)$

$$-9 + 10x = -6x + 15$$

$$10x + 6x = 15 + 9$$

$$16x = 24$$

$$2x = 3$$

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

⑦ $3 - 5(x - 9) = 8(5x + 1) + 3x$

$$-5x + 48 = 43x + 8$$

$$-5x - 43x = 8 - 48$$

$$-48x = -40$$

$$6x = 5$$

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

⑧ $-3x - 4(5x - 1) = -8(2 + x) - 5$

$$-23x + 4 = -21 - 8x$$

$$-23x + 8x = -21 - 4$$

$$-15x = -25$$

$$3x = 5$$

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

⑨ $-60 = -3(2 + 3x)$

$$-60 = -6 - 9x$$

$$9x = -6 + 60$$

$$9x = 54$$

$$x = 6$$

⑩ $3(2x - 9) = 6(3x - 1)$

$$6x - 27 = 18x - 6$$

$$6x - 18x = -6 + 27$$

$$-12x = 21$$

$$4x = -7$$

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

⑪ $3(2 - 3x) = -x - 2(7x - 1)$

$$6 - 9x = -15x + 2$$

$$-9x + 15x = 2 - 6$$

$$6x = -4$$

$$3x = -2$$

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

⑫ $-1 - 4(x + 5) = -5x + 7(1 - x)$

$$-4x - 21 = 7 - 12x$$

$$-4x + 12x = 7 + 21$$

$$8x = 28$$

$$2x = 7$$

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