

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 $-5(1-2x) = -1$

⑤ $3(6x+1) = -2(x-7)+1$

⑨ $9(1+x) = 3(x+4)+1$

② $-3-7(5+x) = -6+x$

⑥ $6(7x+1) = 41$

⑩ $-7-x = 2(7-4x)$

③ $2(4x-15) = -5(x-1)-2x$

⑦ $6(1-4x) = 46$

⑪ $-3x-4(4x+1) = -2+5(x-4)$

④ $-72 = -9(x-1)$

⑧ $22 = 8(1-x)$

⑫ $1+5(7-x) = -4(2-x)-1$

■ 次の方程式を解きなさい。

① $-5(1-2x) = -1$

$$-5 + 10x = -1$$

$$10x = -1 + 5$$

$$10x = 4$$

$$5x = 2$$

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

② $-3 - 7(5+x) = -6 + x$

$$-38 - 7x = -6 + x$$

$$-7x - x = -6 + 38$$

$$-8x = 32$$

$$x = -4$$

③ $2(4x-15) = -5(x-1) - 2x$

$$8x - 30 = -7x + 5$$

$$8x + 7x = 5 + 30$$

$$15x = 35$$

$$3x = 7$$

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

④ $-72 = -9(x-1)$

$$-72 = -9x + 9$$

$$9x = 9 + 72$$

$$9x = 81$$

$$x = 9$$

⑤ $3(6x+1) = -2(x-7) + 1$

$$18x + 3 = -2x + 15$$

$$18x + 2x = 15 - 3$$

$$20x = 12$$

$$5x = 3$$

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

⑥ $6(7x+1) = 41$

$$42x + 6 = 41$$

$$42x = 41 - 6$$

$$42x = 35$$

$$6x = 5$$

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

⑦ $6(1-4x) = 46$

$$6 - 24x = 46$$

$$-24x = 46 - 6$$

$$-24x = 40$$

$$3x = -5$$

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

⑧ $22 = 8(1-x)$

$$22 = 8 - 8x$$

$$8x = 8 - 22$$

$$8x = -14$$

$$4x = -7$$

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

⑨ $9(1+x) = 3(x+4) + 1$

$$9 + 9x = 3x + 13$$

$$9x - 3x = 13 - 9$$

$$6x = 4$$

$$3x = 2$$

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

⑩ $-7 - x = 2(7-4x)$

$$-7 - x = 14 - 8x$$

$$-x + 8x = 14 + 7$$

$$7x = 21$$

$$x = 3$$

⑪ $-3x - 4(4x+1) = -2 + 5(x-4)$

$$-19x - 4 = 5x - 22$$

$$-19x - 5x = -22 + 4$$

$$-24x = -18$$

$$4x = 3$$

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

⑫ $1 + 5(7-x) = -4(2-x) - 1$

$$36 - 5x = -9 + 4x$$

$$-5x - 4x = -9 - 36$$

$$-9x = -45$$

$$x = 5$$