

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 $-9 = -6(x-1)$

⑤ $7(x+2)+3=3(3x+1)$

⑨ $3-8(x-1)=3x+4(6x+1)$

② $-2(2-9x) = -19$

⑥ $9x = -3(9x-2)$

⑩ $x+4(5x+1) = 1+9(2+x)$

③ $49 = -7(2x+1) - 2x$

⑦ $-6x+7(1-2x) = 22$

⑪ $-3(x+1) - x = -1$

④ $4(1+4x) = 7(10+x) + 6$

⑧ $3(3x+19) = -3(9x+2)$

⑫ $-7(1+2x) - 4x = -37$

■ 次の方程式を解きなさい。

① $-9 = -6(x-1)$

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

$$6x = 6 + 9$$

$$6x = 15$$

$$2x = 5$$

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

② $-2(2-9x) = -19$

$$-4 + 18x = -19$$

$$18x = -19 + 4$$

$$18x = -15$$

$$6x = -5$$

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

③ $49 = -7(2x+1) - 2x$

$$49 = -16x - 7$$

$$16x = -7 - 49$$

$$16x = -56$$

$$2x = -7$$

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

④ $4(1+4x) = 7(10+x) + 6$

$$4 + 16x = 76 + 7x$$

$$16x - 7x = 76 - 4$$

$$9x = 72$$

$$x = 8$$

⑤ $7(x+2) + 3 = 3(3x+1)$

$$7x + 17 = 9x + 3$$

$$7x - 9x = 3 - 17$$

$$-2x = -14$$

$$x = 7$$

⑥ $9x = -3(9x-2)$

$$9x = -27x + 6$$

$$9x + 27x = 6$$

$$36x = 6$$

$$6x = 1$$

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

⑦ $-6x + 7(1-2x) = 22$

$$7 - 20x = 22$$

$$-20x = 22 - 7$$

$$-20x = 15$$

$$4x = -3$$

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

⑧ $3(3x+19) = -3(9x+2)$

$$9x + 57 = -27x - 6$$

$$9x + 27x = -6 - 57$$

$$36x = -63$$

$$4x = -7$$

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

⑨ $3 - 8(x-1) = 3x + 4(6x+1)$

$$-8x + 11 = 27x + 4$$

$$-8x - 27x = 4 - 11$$

$$-35x = -7$$

$$5x = 1$$

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

⑩ $x + 4(5x+1) = 1 + 9(2+x)$

$$21x + 4 = 19 + 9x$$

$$21x - 9x = 19 - 4$$

$$12x = 15$$

$$4x = 5$$

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

⑪ $-3(x+1) - x = -1$

$$-4x - 3 = -1$$

$$-4x = -1 + 3$$

$$-4x = 2$$

$$2x = -1$$

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

⑫ $-7(1+2x) - 4x = -37$

$$-7 - 18x = -37$$

$$-18x = -37 + 7$$

$$-18x = -30$$

$$3x = 5$$

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