

**数学科 方程式マスター D-③**

( )組( )番 名前( )

次の  $x$  についての方程式を解きなさい。

①  $4x - (x - 39) = 3(5 - x)$

⑤  $2(x + 17) = 4(3x + 1)$

②  $6x + 3(x + 2) = 3$

⑥  $3x - 4(x - 6) = 6x - 11$

③  $2x = 27 - 4(x + 6)$

⑦  $2(3x + 1) + 6(x - 2) = 2$

④  $30x + 60(12 - x) = 420$

次の  $x$  についての方程式を解きなさい。

①  $4x - (x - 39) = 35 - x$

$$4x - x + 39 = 35 - 3x$$

$$3x + 39 = 35 - 3x$$

$$3x + 3x = 35 - 39$$

$$6x = -4$$

$$6x \div 6 = -4 \div 6$$

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

②  $6x + 3(x + 2) = 3$

$$6x + 3x + 6 = 3$$

$$9x + 6 = 3$$

$$9x = 3 - 6$$

$$9x = -3$$

$$9x \div 9 = -3 \div 9$$

$$x = -\frac{1}{3}$$

$$x = -\frac{1}{3}$$

③  $2x = 27 - 4(x + 6)$

$$2x = 27 - 4x - 24$$

$$2x = 3 - 4x$$

$$2x + 4x = 3$$

$$6x = 3$$

$$6x \div 6 = 3 \div 6$$

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

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

④  $30x + 60(12 - x) = 420$

$$30x + 720 - 60x = 420$$

$$-30x + 720 = 420$$

$$-30x = 420 - 720$$

$$-30x = -300$$

$$-30x \div (-30) = -300 \div (-30)$$

$$x = 10$$

⑤  $2(x + 17) = 4(3x + 1)$

$$2x + 34 = 12x + 4$$

$$2x - 12x = -34 + 4$$

$$-10x = -30$$

$$-10x \div (-10) = -30 \div (-10)$$

$$x = 3$$

⑥  $3x - 4(x - 6) = 6x - 11$

$$3x - 4x + 24 = 6x - 11$$

$$-x + 24 = 6x - 11$$

$$-x - 6x = -24 - 11$$

$$-7x = -35$$

$$-7x \div (-7) = -35 \div (-7)$$

$$x = 5$$

⑦  $2(3x + 1) + 6(x - 2) = 2$

$$6x + 2 + 6x - 12 = 2$$

$$12x - 10 = 2$$

$$12x = 2 + 10$$

$$12x = 12$$

$$12x \div 12 = 12 \div 12$$

$$x = 1$$