

**数学科 方程式マスター D-⑥**

( )組( )番 名前( )

次の  $x$  についての方程式を解きなさい。

①  $3x - (x + 19) = 3(2 - x)$

⑤  $3x = 22 - 5(x + 2)$

②  $2(x + 7) = 3(7x - 8)$

⑥  $2(3x + 4) + 6(x - 5) = 14$

③  $4x + 4(x + 8) = 44$

⑦  $50x + 60(12 - x) = 710$

④  $3x - 4(x - 3) = 4x - 23$

次の  $x$  についての方程式を解きなさい。

①  $3x - (x + 19) = 32 - x$

$$3x - x - 19 = 6 - 3x$$

$$2x - 19 = 6 - 3x$$

$$2x + 3x = 6 + 19$$

$$5x = 25$$

$$5x \div 5 = 25 \div 5$$

$$x = 5$$

②  $2(x + 7) = 3(7x - 8)$

$$2x + 14 = 21x - 24$$

$$2x - 21x = -14 - 24$$

$$-19x = -38$$

$$-19x \div (-19) = -38 \div (-19)$$

$$x = 2$$

③  $4x + 4(x + 8) = 44$

$$4x + 4x + 32 = 44$$

$$8x + 32 = 44$$

$$8x = 44 - 32$$

$$8x = 12$$

$$8x \div 8 = 12 \div 8$$

$$x = \frac{12}{8}$$

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

④  $3x - 4(x - 3) = 4x - 23$

$$3x - 4x + 12 = 4x - 23$$

$$-x + 12 = 4x - 23$$

$$-x - 4x = -12 - 23$$

$$-5x = -35$$

$$-5x \div (-5) = -35 \div (-5)$$

$$x = 7$$

⑤  $3x = 22 - 5(x + 2)$

$$3x = 22 - 5x - 10$$

$$3x = 12 - 5x$$

$$3x + 5x = 12$$

$$8x = 12$$

$$8x \div 8 = 12 \div 8$$

$$x = \frac{12}{8}$$

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

⑥  $2(3x + 4) + 6(x - 5) = 14$

$$6x + 8 + 6x - 30 = 14$$

$$12x - 22 = 14$$

$$12x = 14 + 22$$

$$12x = 36$$

$$12x \div 12 = 36 \div 12$$

$$x = 3$$

⑦  $50x + 60(12 - x) = 710$

$$50x + 720 - 60x = 710$$

$$-10x + 720 = 710$$

$$-10x = 710 - 720$$

$$-10x = -10$$

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

$$x = 1$$