

平成 20 年度 第 2 学期 期末考查 中学部 2 年 (2) 氏名

1. 次の計算をなさい。

$$(1) (-2) + (-7) = \boxed{} \quad (2) -3 - 4 = \boxed{}$$

$$(3) (+5) \times (-7) = \boxed{} \quad (4) (+6) \times 4 = \boxed{}$$

$$(5) (+4) + (-9) = \boxed{} \quad (6) 2 - 8 = \boxed{}$$

$$(7) (-6) \times (-7) = \boxed{} \quad (8) -2 \times (+9) = \boxed{}$$

$$(9) (+7) + (+8) = \boxed{} \quad (10) 4 - 12 = \boxed{}$$

$$(11) (+10) \div (-5) = \boxed{} \quad (12) (-10) \div (+2) = \boxed{}$$

$$(13) 3 - (-9) = \boxed{} \quad (14) -3 + 10 = \boxed{}$$

$$(15) (-8) \div (-4) = \boxed{} \quad (16) (+6) \div 2 = \boxed{}$$

$$(17) (-9) + (-3) = \boxed{} \quad (18) -9 - 8 = \boxed{}$$

$$(19) (+9) \div (-3) = \boxed{} \quad (20) (-5) \div (-5) = \boxed{}$$

2. 次の方程式を 解きなさい。

(1) $4x = 8$

(2) $x + 6 = 4$

(3) $y + 4 = 10$

(4) $2y = -16$

(5) $4x = -x + 10$

(6) $7x = 6x - 6$

3. 次の方程式を 解きなさい。

(1) $2x - 3(2 - x) = 4$

(2) $7x + 9 = 3(x - 1)$

4. 次の連立方程式を解きなさい。

$$(1) \quad \begin{cases} -2x + 3y = 4 & \cdots \\ 2x + 5y = 12 & \cdots \end{cases}$$

$$(2) \quad \begin{cases} 3x + 2y = 18 & \cdots \\ x + 2y = 14 & \cdots \end{cases}$$

5. 次の 方程式を 解きなさい。

(1)

$$1 + 2(x - 4) = 3$$

$$1 + 2x - 8 = 3$$

$$(1 - 1 + 2x - 8 + 8 = 3 - 1 + 8)$$

$$2x = 3 - 1 + 8$$

$$2x = 10$$

$$x = 5$$

$$\text{左辺} = 1 + 2(5 - 4)$$

$$= 1 + 2 \times 1$$

$$= 1 + 2$$

$$= 3$$

(2)

$$4(3x + 4) + 1 = -7$$

$$12x + 16 + 1 = -7$$

$$(12x + 16 - 16 + 1 - 1 = -7 - 16 - 1)$$

$$12x = -7 - 16 - 1$$

$$12x = -24$$

$$x = -2$$

$$\text{左辺} = 4(3 \times (-2) + 4) + 1$$

$$= 4(-6 + 4) + 1$$

$$= 4 \times (-2) + 1$$

$$= -8 + 1$$

$$= -7$$

(3)

$$2x - 3(2 - x) = 4$$

$$2x - 6 + 3x = 4$$

$$(2x - 6 + 6 + 3x = 4 + 6)$$

$$2x + 3x = 4 + 6$$

$$5x = 10$$

$$x = 2$$

$$\text{左辺} = 2 \times 2 - 3(2 - 2)$$

$$= 4 - 3 \times 0$$

$$= 4 - 0$$

$$= 4$$

(4)

$$7x + 9 = 3(x - 1)$$

$$7x + 9 = 3x - 3$$

$$(7x + 9 - 9 - 3x = 3x - 3x - 3 - 9)$$

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

$$4x = -12$$

$$x = -3$$

$$\text{左辺} = 7 \times (-3) + 9$$

$$= -21 + 9$$

$$= -12$$

$$\text{右辺} = 3((-3) - 1)$$

$$= 3 \times (-4)$$

$$= -12$$