

## 【中2数学 | 一次関数の利用】

次のグラフ同士の交点を求めて座標で答えなさい。

(1)  $y = 2x + 1$  と  $y = -x + 10$

$$2x + 1 = -x + 10$$

$$3x = 9 \quad \therefore x = 3$$

$$y = -3 + 10 = 7$$

$$\therefore (3, 7)$$

(2)  $2x + y = 5$  と  $x + 3y = 0$

$$y = -2x + 5$$

$$x + 3y = 0 \text{ に代入}$$

$$x + 3(-2x + 5) = 0$$

$$-5x = -15 \quad \therefore x = 3$$

$$y = -2 \times 3 + 5 = -1$$

$$\therefore (3, -1)$$

(3)  $y = 4x + 14$  と  $y = 2$

$$4x + 14 = 2$$

$$4x = -12 \quad \therefore x = -3$$

$$\therefore (-3, 2)$$

(4)  $y = 3x - 5$  と  $y = x + 1$

$$3x - 5 = x + 1$$

$$2x = 6 \quad \therefore x = 3$$

$$y = 3 + 1 = 4$$

$$\therefore (3, 4)$$