- 3 小問集合. 以下の不等式を解け.
  - (1) 4x-1 < 3x+5

$$(2) \ \frac{1}{2}x - \frac{1}{3} < \frac{1}{4} - \frac{1}{5}x$$

(3) 
$$\begin{cases} 3x+2 < x+4 & \text{--} \text{()} \\ 5x-1 & \leq 7x-5 & \text{--} \text{(2)} \end{cases}$$

$$(4) \quad \underbrace{\frac{2x+5}{4} \leq x+2 < 17-2x}_{\text{(5)}}$$

$$|x-2| < 4$$

- (6) |2x-3|>3

(1) 
$$4\pi - 1 < 3\pi + 5$$
  
 $4\pi - 3\pi < 5 + 1$   
 $\pi < 6$ 

(2) 
$$\frac{1}{2} 9c - \frac{1}{3} < \frac{1}{4} - \frac{1}{5}$$
  
 $\frac{1}{2} 9c + \frac{1}{5}$   $< \frac{1}{4} + \frac{1}{3}$   
 $\frac{5+7}{10} 9c < \frac{3+4}{12}$ 

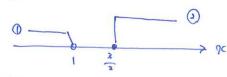
$$\frac{7}{10} \Re < \frac{7}{12}$$

$$\frac{1}{10} \Re < \frac{1}{12}$$

$$\chi < \frac{16}{12}$$
 $\chi < \frac{16}{12}$ 

(3) 0 
$$3\pi c + 2 < 9c + 4$$
  
 $2\chi < 2$   
 $\chi < 1$ 

② 
$$5x-1 \le 7x-5$$
  
 $-1+4 \le 7x-5x$   
 $3 \le 2x$   
 $\frac{3}{4} \le 9x$ 



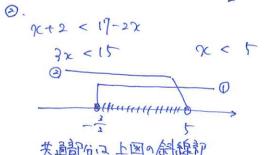
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$$0 \approx 2x + 5$$

$$2x + 5 \leq 4x + 6$$

$$-3 \leq 2x$$

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



(5) 
$$|x-2| < 4$$
  
 $-4 < x-2 < 4$   
 $-4+2 < x < 4+2$   
 $-2 < x < 6$ 

$$2x-3 < 3, 3 < 2x-3$$

$$2x < 0, 5 < 2x$$

$$2x < 0, 5 < 2x$$