

1 $a < b$ のとき、次の□に適する不等号 < または > を入れよ。

(1) $a-7 \square b-7$

(2) $\frac{a}{-3} \square \frac{b}{-3}$

(3) $-6a+1 \square -6b+1$

(1) $a-7 < b-7$

(2) $a < b$

(3) $a < b$

$-\frac{a}{3} > -\frac{b}{3}$

$-6a > -6b$

$-6a+1 > -6b+1$

2 次の不等式を解け。

(1) $4x-1 < 7$

(2) $-2x+3 \leq 6$

(3) $7x-4 \geq 4x+8$

(4) $-4x+3 < 2x+7$

(5) $3(x+1) \geq 5x-1$

(6) $2(2x-13) > 3(3x-7)$

(7) $\frac{x}{2}+1 < \frac{x}{3}+2$

(8) $\frac{2x-1}{3} \geq \frac{1}{4}x-2$

(9) $1.2x-0.8 \leq 2.7-0.55x$

(1) $4x-1 < 7$

(2) $-2x+3 \leq 6$

(3) $7x-4 \geq 4x+8$

$4x < 8$

$-2x \leq 3$

$3x \geq 12$

$x < 2$

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

$x \geq 4$

(4) $-4x+3 < 2x+7$

(5) $3x+3 \geq 5x-1$

$-6x < 4$

$-2x \geq -4$

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

$x \leq 2$

(6) $4x-26 > 9x-21$

$-5x > 5$

$x < -1$

(7) $\frac{x}{2}+1 < \frac{x}{3}+2$

($\times 6$)

$3x+6 < 2x+12$

$x < 6$

(8) $\frac{2x-1}{3} \geq \frac{1}{4}x-2$

($\times 12$)

$8x-4 \geq 3x-24$

$5x \geq -20$

$x \geq -4$

(9) $1.2x-0.8 \leq 2.7-0.55x$

$1.2x+0.55x \leq 3.5$

($\times 100$)

$120x+55x \leq 350$

$175x \leq 350$

$x \leq 2$

3 次の不等式を解け。

(1) $\begin{cases} 2x-7 < 5x+8 \\ 8x+3 \leq 3x-7 \end{cases}$

(2) $\begin{cases} 3(x-5) > 5-2x \\ 4x-5 < 3(2x-3) \end{cases}$

(3) $\begin{cases} 4-7x \geq -3x+8 \\ 5x-7 \geq 2(x+1) \end{cases}$

(4) $-3 \leq 5x+2 \leq 10$

(5) $2x-1 < 5x+8 \leq 7x+4$

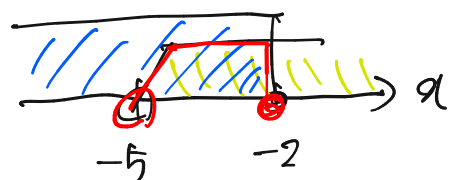
(6) $x \leq \sqrt{2}x+1$

(7) $\begin{cases} 4(x+2) > 7x+8 \\ -\frac{3x+5}{4} \leq -\frac{5x+7}{8} \end{cases}$

(1) $2x-7 < 5x+8, 8x+3 \leq 3x-7$

$-3x < 15, 5x \leq -10$

$x > -5, x \leq -2$



$-5 < x \leq -2$

(3) $4-7x \geq -3x+8$

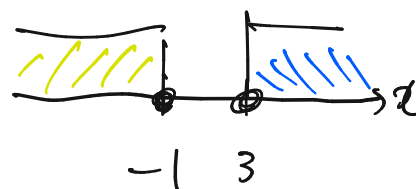
$-4x \geq 4$

$x \leq -1$

$5x-7 \geq 2x+2$

$3x \geq 9$

$x \geq 3$

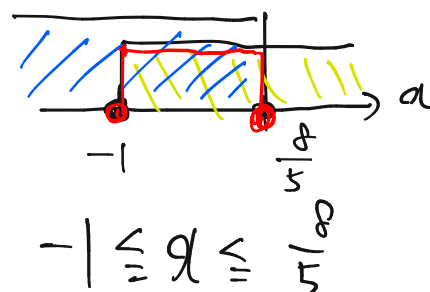


解なし

(4) $-3 \leq 5x+2, 5x+2 \leq 10$

$-5 \leq 5x, 5x \leq 8$

$-1 \leq x, x \leq \frac{8}{5}$



(6) $x \leq \sqrt{2}x+1$

$(1-\sqrt{2})x \leq 1$

$1-\sqrt{2} < 0$ 両辺

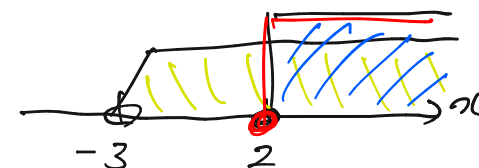
$x \geq \frac{1}{1-\sqrt{2}}$

$x \geq -\sqrt{2}-1$

(5) $2x-1 < 5x+8, 5x+8 \leq 7x+4$

$-3x < 9, -2x \leq -4$

$x > -3, x \geq 2$



$x \geq 2$

(7) $4x+8 > 7x+8, -\frac{3x+5}{4} \leq -\frac{5x+7}{8}$

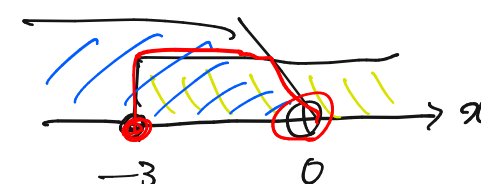
$-3x > 0$

$x < 0$

$(x-8)$

$6x+10 \geq 5x+7$

$x \geq -3$



$-3 \leq x < 0$

<今日のふりかえり>

