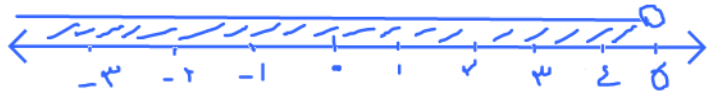


بزرگتر ←  
کوچکتر →

$$2x - 1 < x + 4$$

$$2x - x < 4 + 1$$

$$x < 5$$



$$\{x \in \mathbb{R} \mid x < 5\}$$

$$\left(\frac{2x-2}{3} \leq x+1\right) \times 3$$

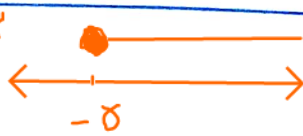
$$2x - 2 \leq 3(x+1)$$

$$2x - 2 \leq 3x + 3$$

$$2x - 3x \leq 3 + 2$$

$$-x \leq 5$$

$$\div (-1) \rightarrow x \geq -5$$



$$3x - \frac{2}{5}(\Delta x - 1) \geq 2x - 1$$

$$3x - 2x + 4 \geq 2x - 1$$

$$x - 2x - 2x \geq -1 - 1$$

$$-x \geq -2$$

$$x \leq 2$$



$$\{x \in \mathbb{R} \mid x \leq 2\}$$

$$3(\Delta x - 2) \leq \Delta x + 8$$

$$3\Delta x - 6 \leq \Delta x + 8$$

$$2\Delta x - 14 \leq 8$$

$$2\Delta x \leq 22$$

$$\Delta x \leq 11$$



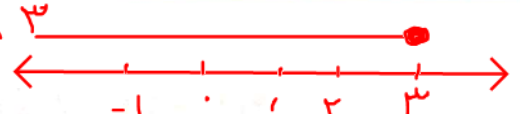
$$4 + 2x \geq 5(x - 1)$$

$$4 + 2x \geq 5x - 5$$

$$2x - 5x \geq -5 - 4$$

$$-3x \geq -9$$

$$\div (-3) \rightarrow x \leq 3$$

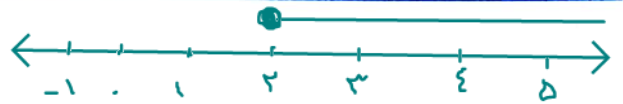


$$3(x - 1) \geq 2x - 1$$

$$3x - 3 \geq 2x - 1$$

$$3x - 2x \geq 3 - 1$$

$$x \geq 2$$



$$3(2x - 5) < 6 - x$$

$$6x - 15 < 6 - x$$

$$7x + x < 6 + 15$$

$$8x < 21$$

$$x < 3$$



$$4(2x - 3) \geq 2x + 6$$

$$8x - 12 \geq 2x + 6$$

$$6x - 18 \geq 6 + 6$$

$$6x \geq 24$$

$$x \geq 4$$



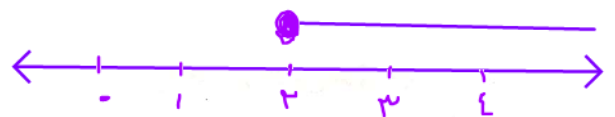
$$-1 - 2x \geq 5(3 - 2x)$$

$$-1 - 2x \geq 15 - 10x$$

$$-2x + 10x \geq 15 + 1$$

$$8x \geq 16$$

$$x \geq 2$$



$$\left(\frac{y-3}{4} + 1 > \frac{y}{2}\right) \times 4$$

$$y - 3 + 4 > 2y$$

$$y - 3 + 4 > 2y$$

$$y - 2y > 3 - 4$$

$$-y > -1$$

$$\div (-1) \rightarrow y < 1$$



$$2x + 5 > 7 \rightarrow 2x > 2$$

$$x > 5 - 8 \rightarrow x > -3$$



$$x^2 + \frac{x}{2} \geq (x-2)^2$$

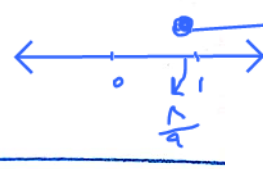
$$x^2 + \frac{x}{2} \geq x^2 - 4x + 4$$

$$\frac{x}{2} \geq -4x + 4$$

$$x \geq -8x + 8$$

$$9x \geq 8$$

$$x \geq \frac{8}{9}$$



$$2x + 7 \geq 10 + 6x$$

$$-4x \geq 3$$

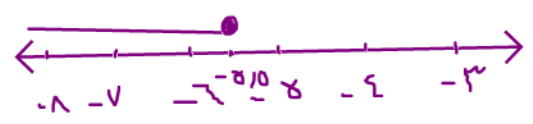
$$x \leq -\frac{3}{4}$$



$$7x - 6 \geq 9x + 5$$

$$-2x \geq 11$$

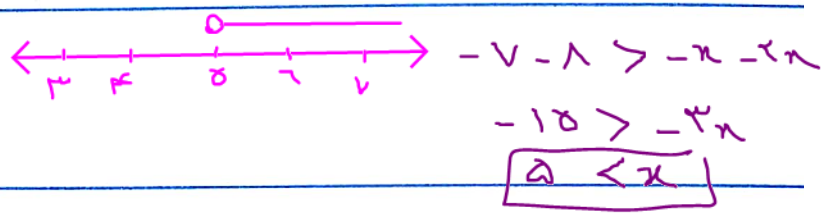
$$x \leq -\frac{11}{2} = -5.5$$



$$2x - 7 > 1 - x$$

$$3x > 8$$

$$x > \frac{8}{3}$$

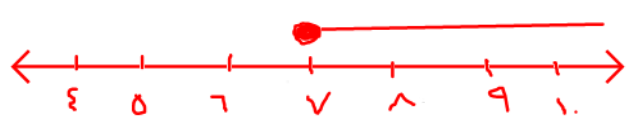


$$3(x-2) \geq 2x+1$$

$$3x-6 \geq 2x+1$$

$$x-6 \geq 1$$

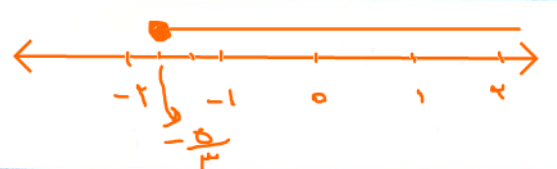
$$x \geq 7$$



$$4x + 11 \geq 2x + 1$$

$$2x \geq -10$$

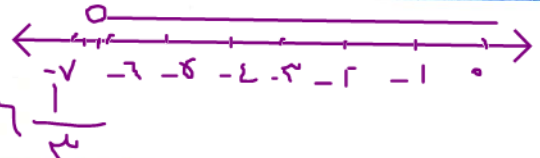
$$x \geq -5$$



$$5x - 11 < 4x + 1$$

$$x - 12 < 1$$

$$x < 13$$

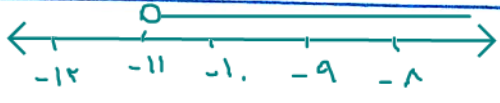


$$3 - 3x > -5(x+2)$$

$$3 - 3x > -5x - 10$$

$$2x > -13$$

$$x > -6.5$$



$$2(x-3) + 7 < 13 - 4x$$

$$2x - 6 + 7 < 13 - 4x$$

$$2x + 1 < 13 - 4x$$

$$6x < 12$$

$$x < 2$$



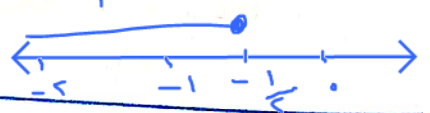
$$\left(\frac{7x}{6} \leq \frac{x+1}{3} + \frac{x-1}{2}\right) \times 6$$

$$7x \leq 2x+2 + 3x-3$$

$$7x \leq 5x-1$$

$$2x \leq -1$$

$$x \leq -\frac{1}{2}$$



$$\left(\frac{2}{3}x - \frac{1}{2} > \frac{1}{5}x + 2\right) \times 10$$

$$\frac{20}{3}x - 5 > 2x + 20$$

$$\frac{20}{3}x - 2x > 25$$

$$\frac{14}{3}x > 25$$

$$x > \frac{75}{14}$$

