

## 1.7 Inequalities

$$\frac{-2x}{-2} \leq \frac{10}{-2}$$

$$x \geq -5$$

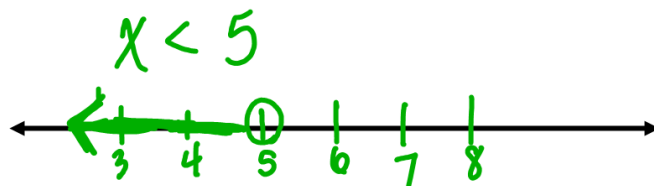
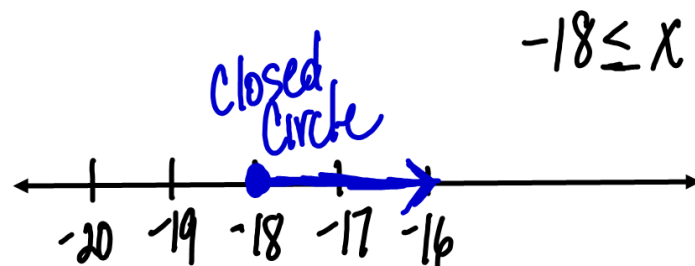
Reverse inequality  
Sign

$$\frac{2x}{2} < \frac{-10}{2}$$

$$x < -5$$

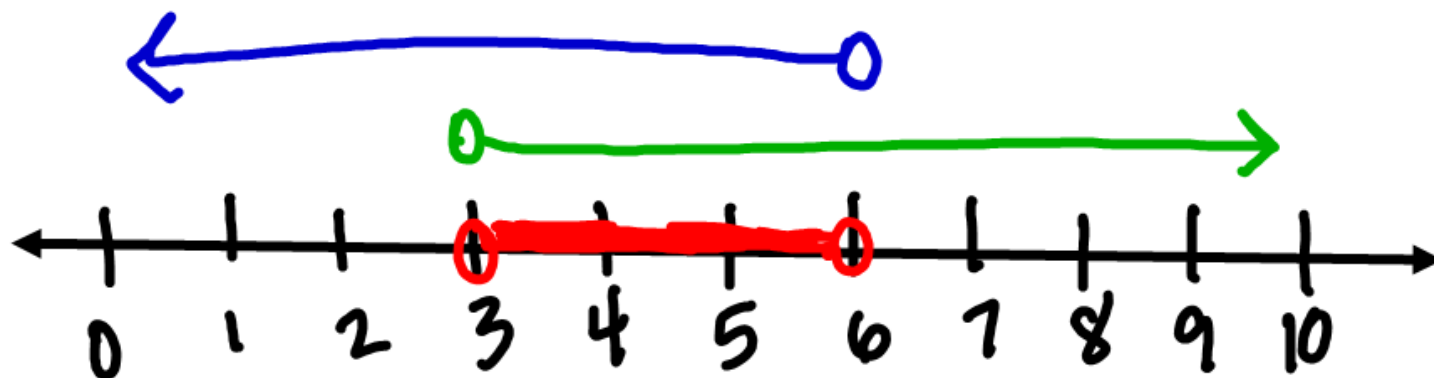
$$\frac{-3}{2} \cdot \frac{-2}{3} x \leq \frac{12}{2} \cdot \frac{-3}{2}$$

$$x \geq -18$$



$$y - 2 < 4 \quad \text{and} \quad y + 4 > 7$$

$$y < 6 \quad \text{and} \quad y > 3$$



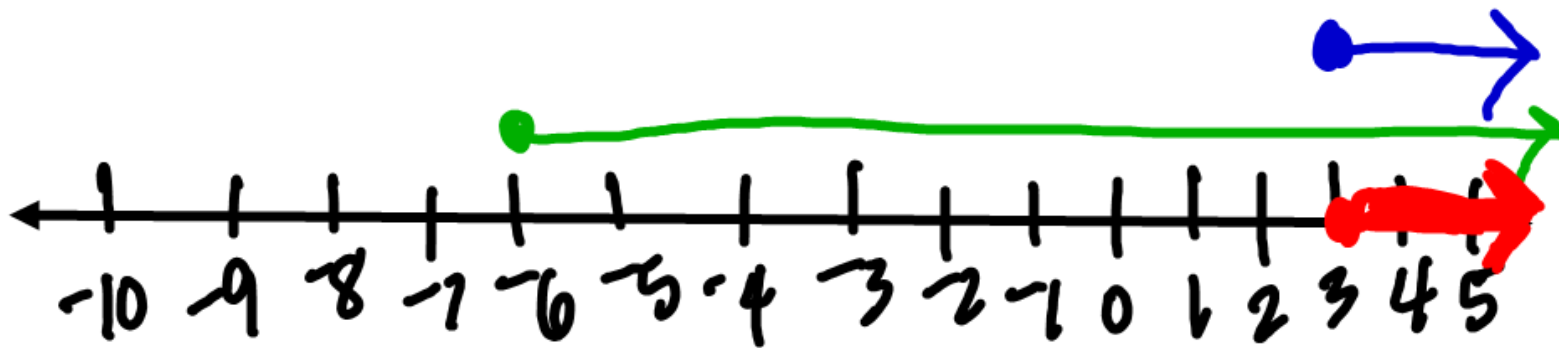
$$3 < y < 6$$

between

$$5y \geq 15 \quad \text{and} \quad y + 8 \geq 2$$

$$y \geq 3 \quad \text{and} \quad y \geq -6$$

both



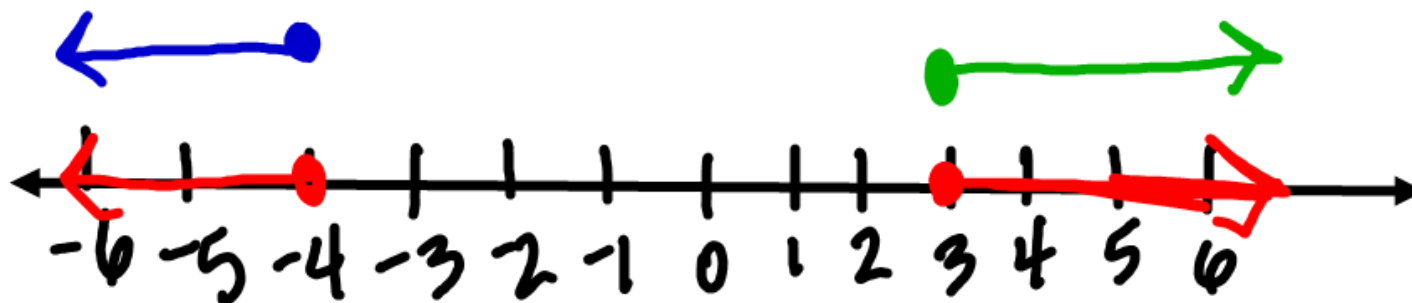
$$y \geq 3$$

OR

 $-9$   $-9$ 

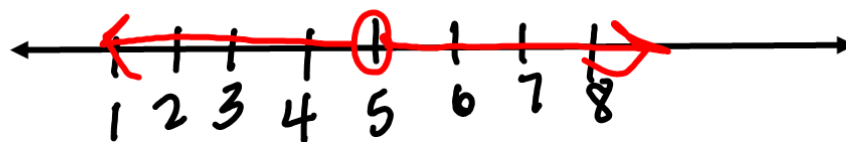
$$x + 9 \leq 5 \quad \text{or} \quad 4x \geq 12$$

$$x \leq -4 \quad \text{or} \quad x \geq 3$$



$$x \leq -4 \quad \text{or} \quad x \geq 3$$

$$x < 5 \text{ or } x > 5$$



All Real Numbers  
Except

$$x \leq 2 \text{ and } x \geq 5$$



No Solution

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