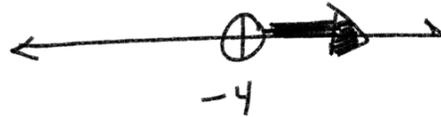


1.) $x \geq 3$



\geq
 $><$
 0
 $\geq \leq$
 \bullet
 $\Rightarrow \rightarrow \Rightarrow$

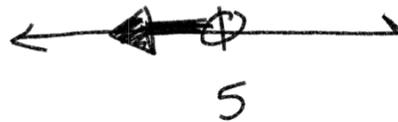
2.) $-4 < x$



3.) $8 \geq x$



4.) $x < 5$



$><$
 0
 $\geq \leq$
 \bullet

$x + 4 > 9$
 $-4 \quad -4$

$x > 5$

BIGGER



$-9 * x$

$\frac{-9x}{-9} \geq \frac{-27}{-9}$ flip

$x \leq 3$



$$1.) \frac{5x}{5} < \frac{35}{5}$$

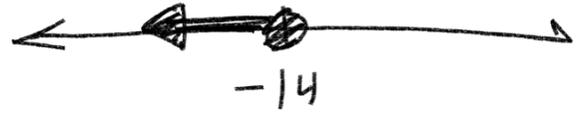
$$x < 7$$



$$2.) \frac{x}{-2} \geq (7)(-2)$$

flip!!

$$x \leq -14$$



$$3.) 18 \leq x - 3$$

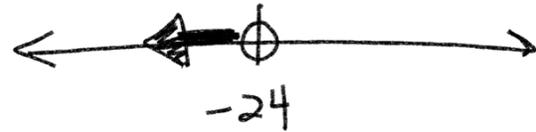
$+3 \quad +3$

$$21 \leq x$$



$$4.) \frac{x}{4} < (-6)4$$

$$x < -24$$



$$-21 \geq 4x - 2 + 5$$

$$-21 \geq 4x + 3$$

$-3 \quad -3$

$$\frac{-24}{4} \geq \frac{4x}{4}$$

$$-6 \geq x$$



$$-21 = 4x - 2 + 5$$

$$-21 = 4x + 3$$

$-3 \quad -3$

$$\frac{-24}{4} = \frac{4x}{4}$$

$$\boxed{-6 = x}$$

$$7x + 5 - 3x < -5$$

Solve and graph

$$7x + (-3x)$$

$$4x + 5 < -5$$

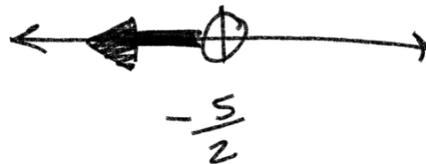
$$\begin{array}{r} -5 \\ -5 \end{array}$$

$$\longrightarrow \frac{4x}{4} < \frac{-10}{4} \quad \text{No flip}$$

$$x < \frac{-10}{4}$$

$$\frac{-10}{4} \div 2 \quad \frac{-5}{2}$$

$$x < \frac{-5}{2}$$



$$-4 - 3x \geq -2x + 8$$

$$+3x$$

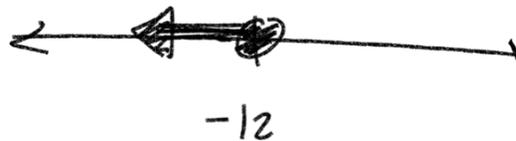
$$+3x$$

$$-4 \geq x + 8$$

$$-8$$

$$-8$$

$$-12 \geq x$$



$$\left. \begin{array}{r} 8 - 5x < 12 + 7x \\ -7x \qquad -7x \end{array} \right\}$$

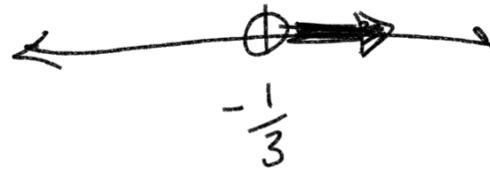
$$\frac{-4}{12} \div 4 \quad -\frac{1}{3}$$

$$\begin{array}{r} 8 - 12x < 12 \\ -8 \qquad -8 \end{array}$$

$$x > -\frac{1}{3}$$

$$\frac{-12x}{-12} < \frac{4}{-12}$$

$$x > -\frac{4}{12}$$



$$-3(4x + 3) \geq -105$$

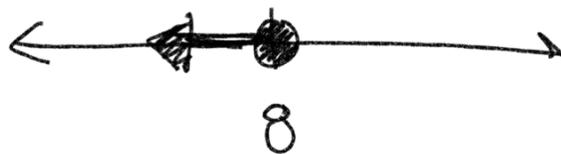
$$\frac{-3(4x + 3)}{-3} \geq \frac{-105}{-3}$$

$$\begin{array}{r} -12x - 9 \geq -105 \\ +9 \qquad +9 \end{array}$$

$$4x + 3 \leq 35$$

$$\frac{-12x}{-12} \geq \frac{-96}{-12}$$

$$x \leq 8$$



$$8(5 - 2x) < 4x + 4$$

$$\begin{array}{r} 40 - 16x < 4x + 4 \\ + 16x \quad + 16x \end{array}$$

$$\begin{array}{r} 40 < 20x + 4 \\ - 4 \quad \quad - 4 \end{array}$$

$$\frac{36}{20} < \frac{20x}{20}$$

$$\frac{36 \div 4}{20 \div 4} < x$$

$$\frac{9}{5} < x$$

