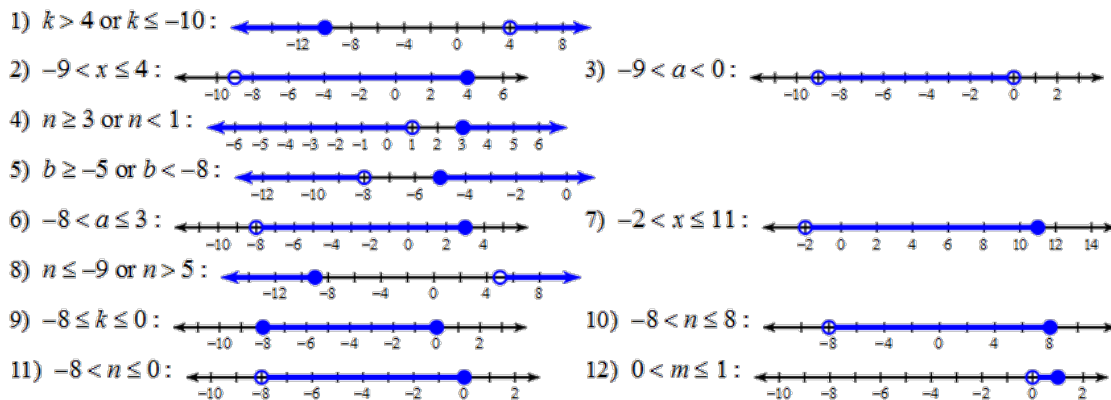


Please take out 4.2 HW to check & review before today's quiz

Answers to 4.2 HW



11) $-9n - 7 < -7n + 9 < -9n + 9$

$$\begin{aligned} -9n - 7 &< -7n + 9 \\ +7n & \quad +7n \\ \hline -2n - 7 &< 9 \\ +7 & \quad +7 \\ \hline -2n &< 16 \\ \frac{-2n}{-2} &< \frac{16}{-2} \\ n &> -8 \end{aligned}$$

"And"

$$\begin{aligned} -7n + 9 &\leq -9n + 9 \\ +7n & \quad +7n \\ \hline 9 &\leq -2n + 9 \\ -9 & \quad -9 \\ \hline 0 &\leq -2n \\ \frac{0}{-2} &\leq \frac{-2n}{-2} \\ 0 &\geq n \\ \text{or} & \\ n &\leq 0 \end{aligned}$$

November 23rd

Due Next Class: HW 4.3

Unit 4: Inequalities

Lesson 4.3: Linear Inequalities

Get Ready:

1) Determine if the following can be a value for x:

a. If $x < 7$, then x can be 5

Si

b. If $x > -15$, then x can be -15

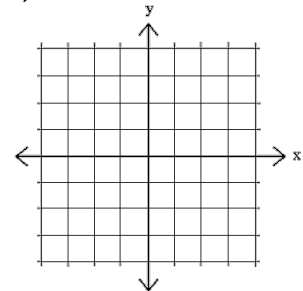
No

c. If $x \geq 42$, then x can be 42

Si

Graph the following:

3) $y = 2x - 3$



2) Identify differences between the solutions represented in the graphs below:

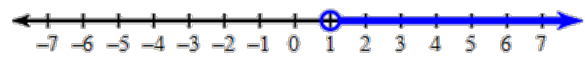
a.



Closed

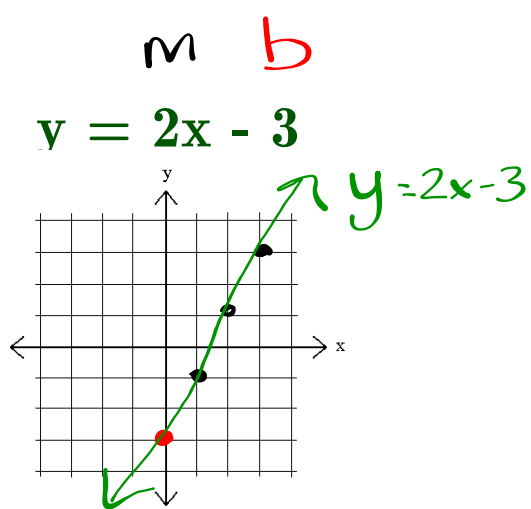
→ Can also be a soln.

b.



Open

→ Not a Soln

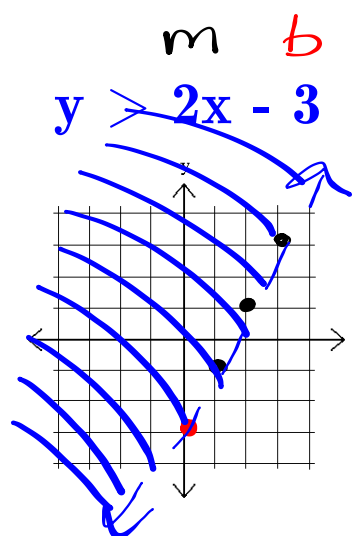


Where are all of the solutions?

Pts on the
Line.

Name a possible solution

$(0, -3)$ $(2, -1)$



Name a possible solution

How do we represent the

RANGE of solutions?



Graphing Linear Inequalities is just like graphing lines except for 2 things

Super Important Information

Are the values on the line
apart of the solution set?

Where is the range of solutions?

Line

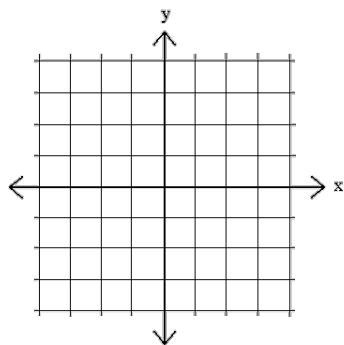
Similar to

Shading

\leq \geq	Solid	
$<$ $>$	Dashed	

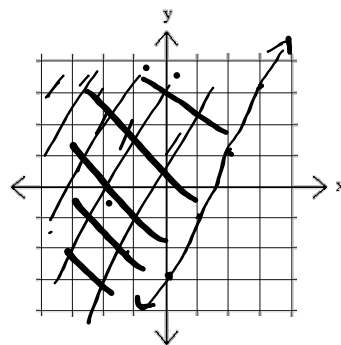
$>$ \geq	Above the line
$<$ \leq	Below the line

$$y > 2x - 3$$



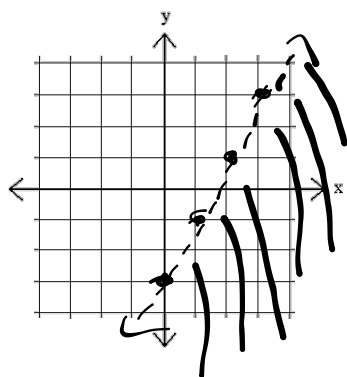
Name a possible solution

$$y \geq 2x - 3$$



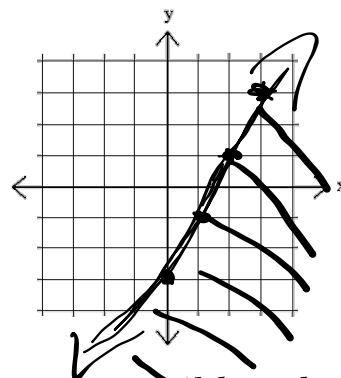
Name a possible solution

$$y < 2x - 3$$



Name a possible solution

$$y \leq 2x - 3$$



Name a possible solution