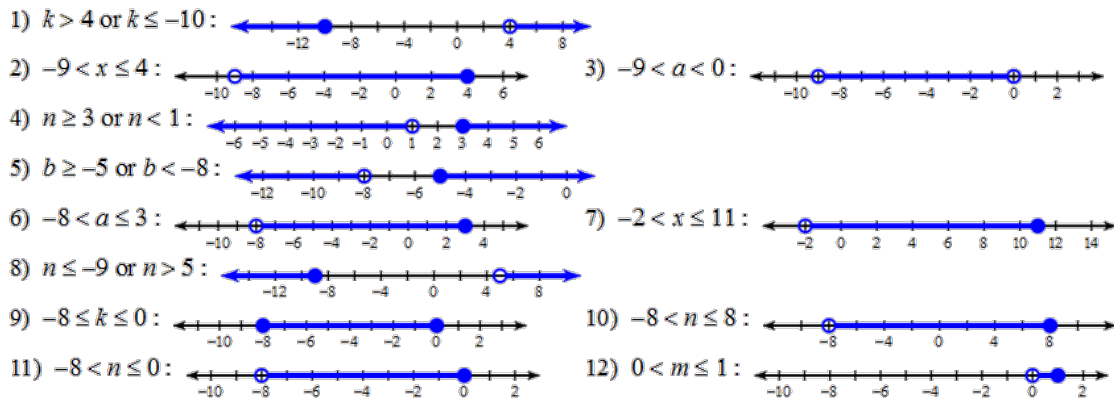
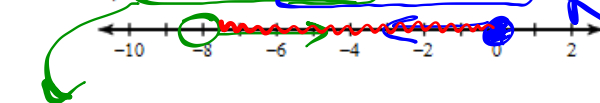


Please take out 4.2 HW to check & review before today's quiz

Answers to 4.2 HW



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



$$\begin{array}{r} -9n - 7 < -7n + 9 \\ +7n \quad \quad +7n \end{array}$$

$$\begin{array}{r} -2n - 7 < 9 \\ +7 \quad \quad +7 \end{array}$$

$$\begin{array}{r} -2n < 16 \\ -2 \quad \quad -2 \end{array}$$

$$\boxed{n > -8}$$

And is implied.

$$\begin{array}{r} -7n + 9 \leq -9n + 9 \\ +9n \quad \quad +9n \end{array}$$

$$\begin{array}{r} 2n + 9 \leq 9 \\ -9 \quad \quad -9 \end{array}$$

$$\begin{array}{r} 2n \leq 0 \\ 2 \quad \quad 2 \end{array}$$

$$\boxed{n \leq 0}$$

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

Sí

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

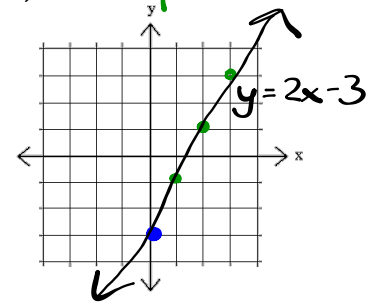
No

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

Sí

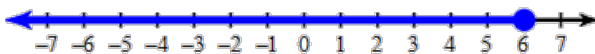
Graph the following:

3) $y = 2x - 3$

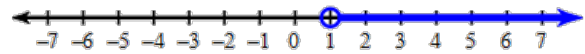


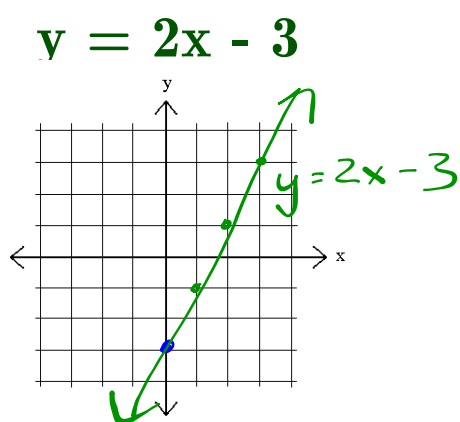
2) Identify differences between the solutions represented in the graphs below:

a.

Closed
"Included"

b.

Open
"Not included"

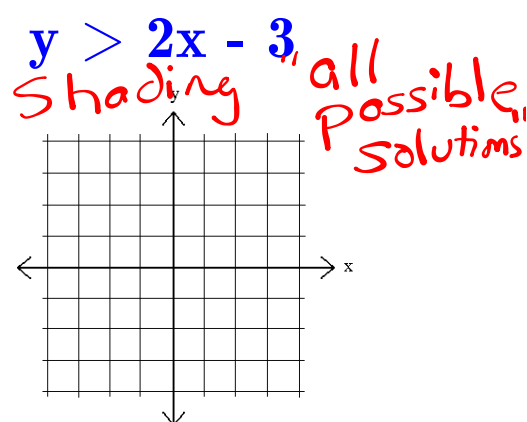


Where are all of the solutions?

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

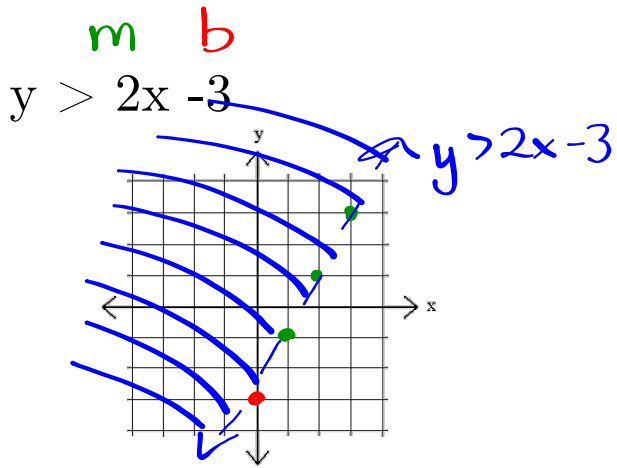
\geq \leq	Solid
$>$ $<$	Dashed

Similar
to



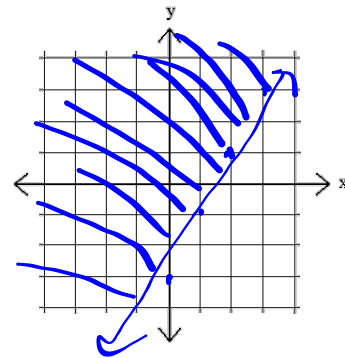
Shading

$>$ \geq	Above our Line
$<$ \leq	Below our Line



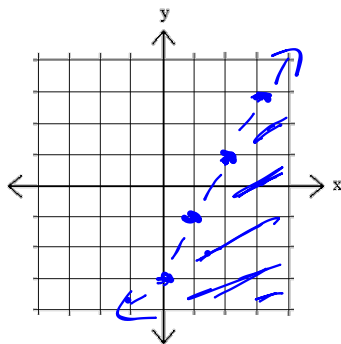
Name a possible solution

$y \geq 2x - 3$



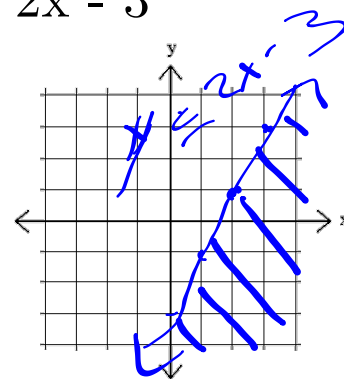
Name a possible solution

$y < 2x - 3$



Name a possible solution

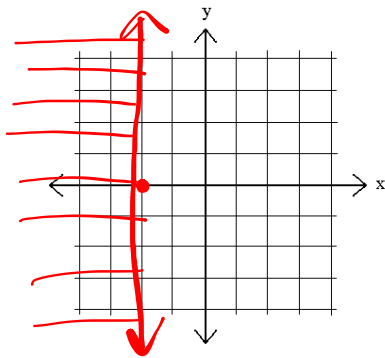
$y \leq 2x - 3$



Name a possible solution

Vertical

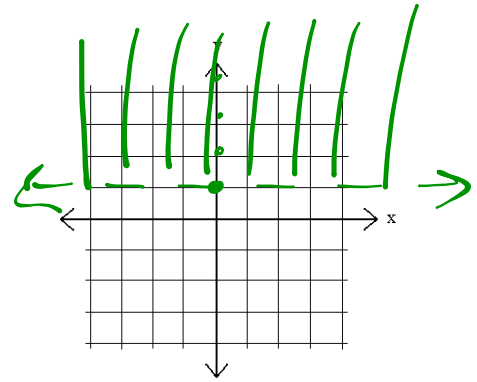
$$x \leq -2$$



Name a possible solution

Horizontal

$$y > 1$$



Name a possible solution