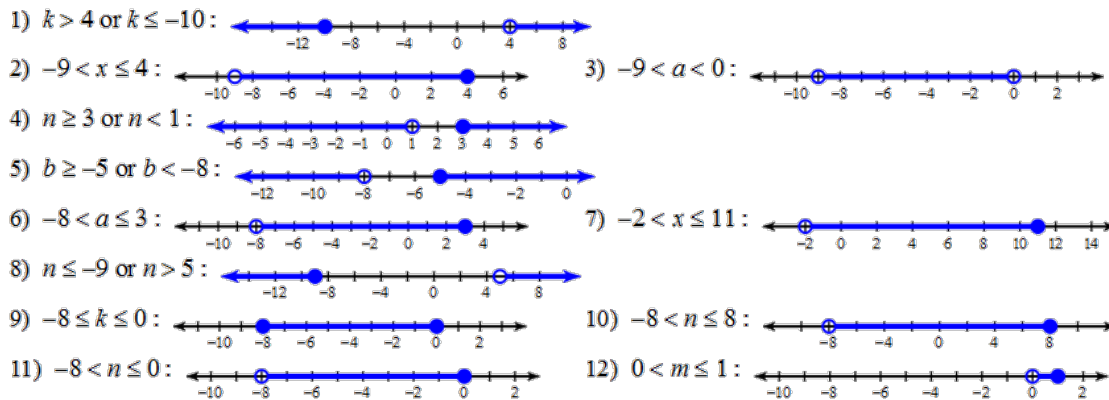


Please take out 4.2 HW to check & review before today's quiz

### Answers to 4.2 HW



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

And

$$\begin{array}{r} -9n - 7 < -7n + 9 \\ +9n \qquad +9n \\ \hline -7 < 2n + 9 \\ -9 \qquad -9 \\ \hline -16 < 2n \\ \frac{-16}{2} < \frac{2n}{2} \\ -8 < n \end{array}$$

$$\begin{array}{r} -7n + 9 \leq -9n + 9 \\ +7n \qquad +7n \\ \hline 9 \leq -2n + 9 \\ -9 \qquad -9 \\ \hline 0 \leq -2n \\ \frac{0}{-2} \leq \frac{-2n}{-2} \\ 0 \geq n \end{array}$$

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

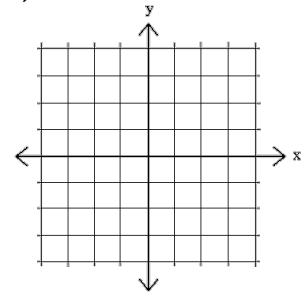
No

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

Sí

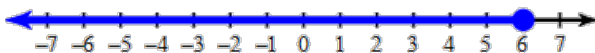
Graph the following:

3)  $y = 2x - 3$

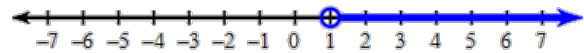


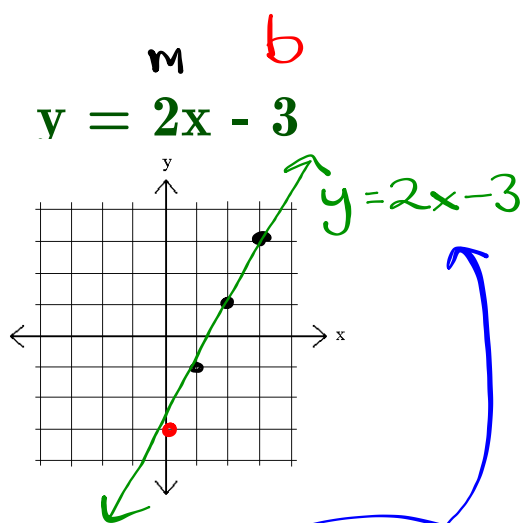
2) Identify differences between the solutions represented in the graphs below:

a.

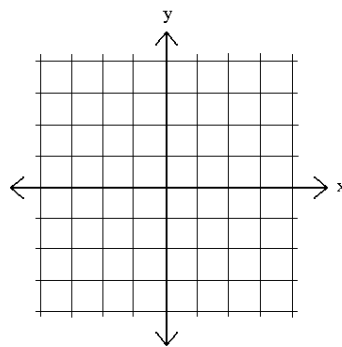
Closed  
"Included"

b.

Open  
"Not Included"



$$y > 2x - 3$$



Where are all of the solutions?

Pts. on the line.

Name a possible solution

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



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?

**Line**

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

Similar  
to

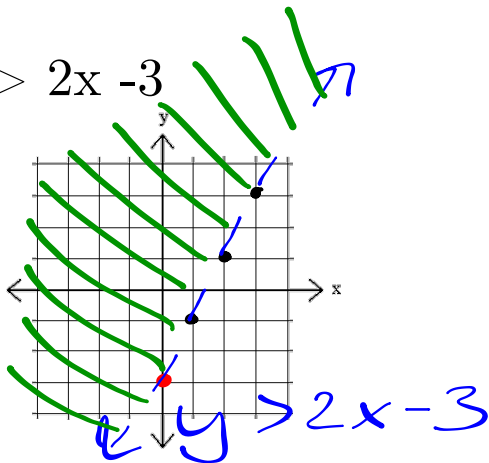


Where is the range of solutions?

**Shading**

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

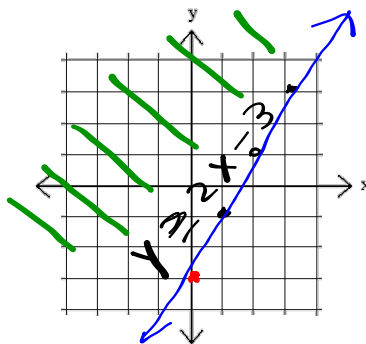
$y > 2x - 3$



Name a possible solution

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

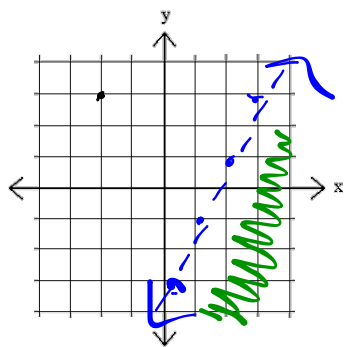
$y \geq 2x - 3$



Name a possible solution

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

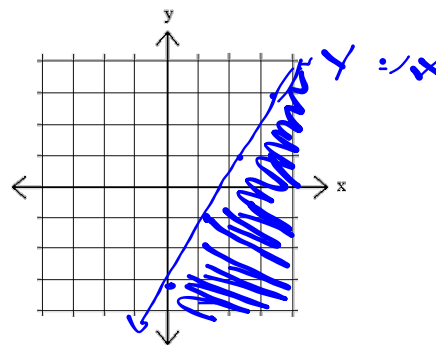
$y < 2x - 3$



Name a possible solution

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

$y \leq 2x - 3$

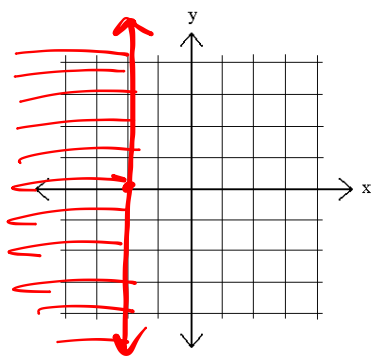


Name a possible solution

$(0, -3)$

Vertical

$$x \leq -2$$



Horizontal

$$y > 1$$

