September 27, 2011

No Warm-Up…
…student assessment instead

Get out homework:

pg 90 #5-19 all

14) $(6,7)$ $m=\frac{2}{3}$

$y = mx + b$

$7 = \frac{2}{3}(6) + b$

$7 = 4 + b$

$-4 \quad -4$

$3 = b$

$y = \frac{2}{3}x + 3$

9/27 - Graphing Linear Inequalities in 2 variables

$$y < 2x + 3$$

How many answers? infinite #

What do the answers look like?

infinite # of points

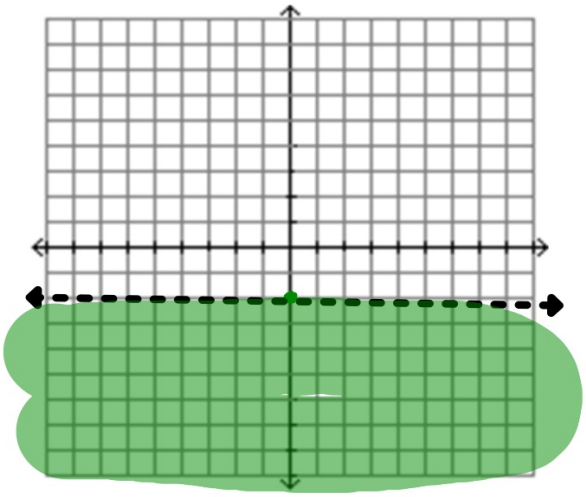
$\Rightarrow$ graph that is shaded

Graph each:

dotted line

$y < -2$

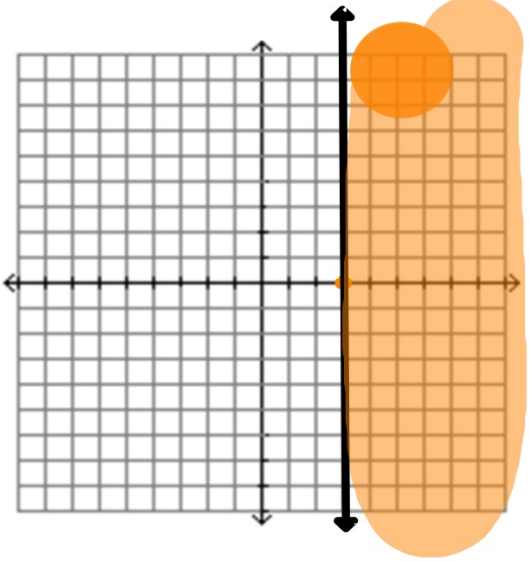
Below



solid line

$x \geq 3$

to the right



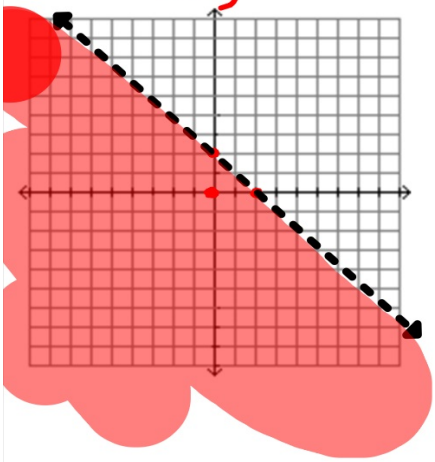
Graph each: Always check a point if the equation is in standard form.

$x + y < 2$ $2x - y \geq -1$ $3x - 2y \leq 6$

Check (0,0)

$0 + 0 < 2$?

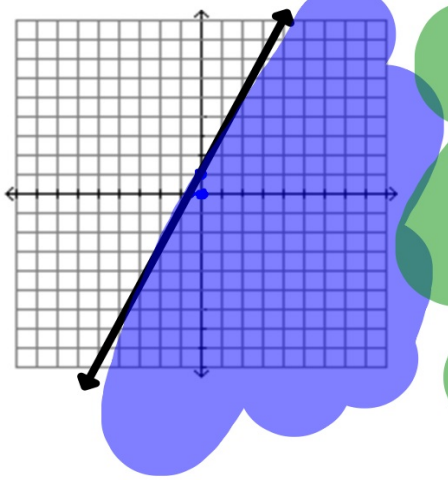
Yes



Check (0,0)

$2(0) - 0 \geq -1$

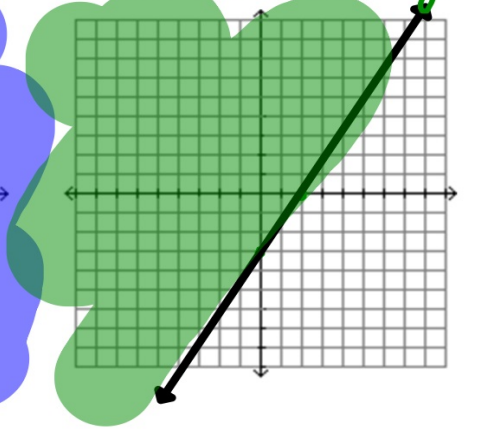
$0 \geq -1$ yes



Check (0,0)

$3(0) - 2(0) \leq 6$

$0 - 0 \leq 6$ yes



Graph each:

Slope-intercept form

$$y < \frac{1}{2}x + 3$$

↑ below $<, \leq$

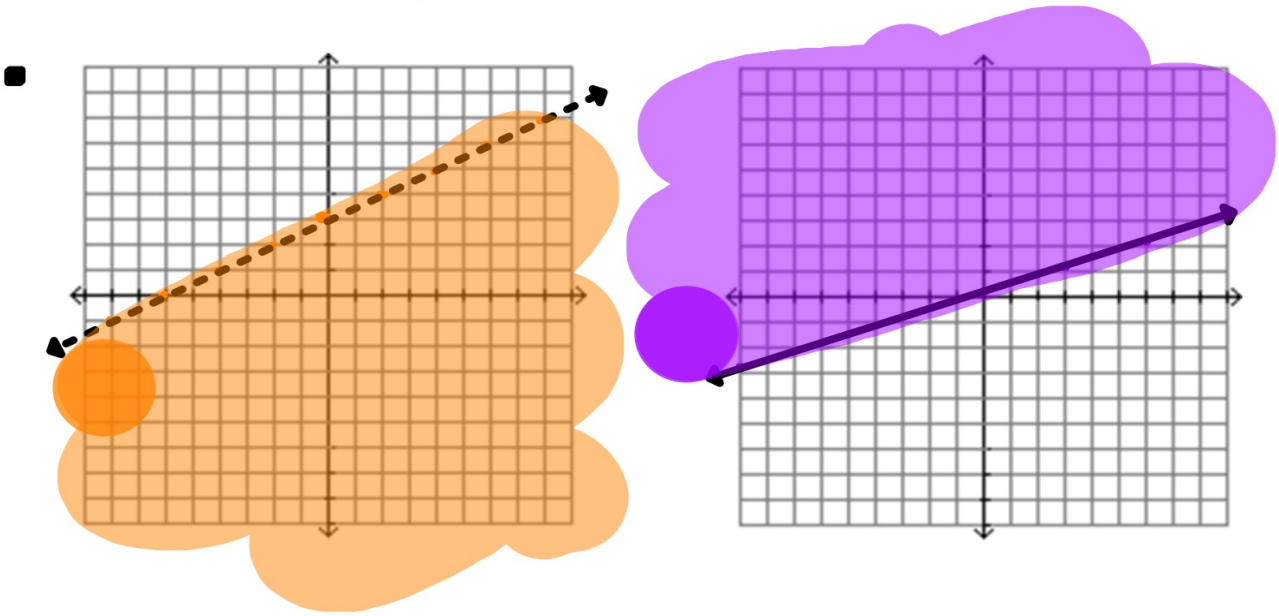
above $>, \geq$

$$2x - 6y \leq -1$$

$-2x \quad -2x$

$$\frac{-6y}{-6} \leq \frac{-2x}{-6} \quad \frac{-1}{-6}$$

$$y \geq \frac{1}{3}x + \frac{1}{6}$$



Homework:

Page 97
 # 17–36 all

due Wednesday

TEST on Mon?