

Algebra 1 Bellwork Monday, February 2, 2015

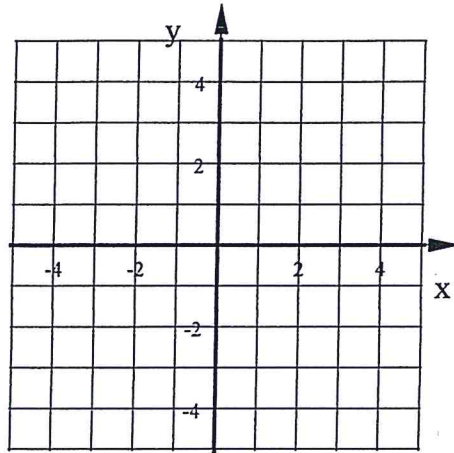
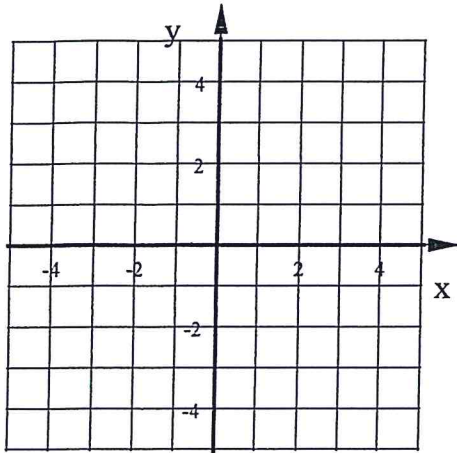
1. Is each point below a solution to this inequality? $y > 2x - 4$

- a) (4,1) b) (-1,1) c) (1,-2)

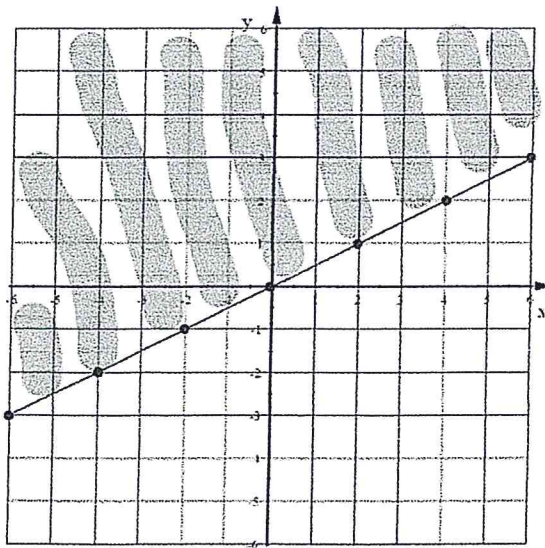
2. Graph each inequality. Shade the solution region.

a) $y > -3x - 2$

b) $36x - 24y \geq -72$



3. Write the inequality shown in the graph below.



1. Is each point below a solution to this inequality? $y > 2x - 4$

a) (4,1)

b) (-1,1)

c) (1,-2)

NO

NO $1 > 2(4) - 4$
 $1 > 4 \rightarrow \text{False}$

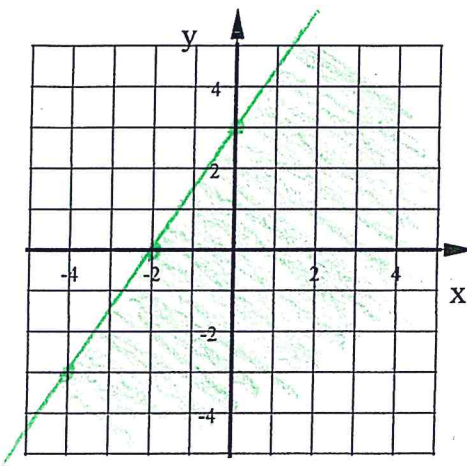
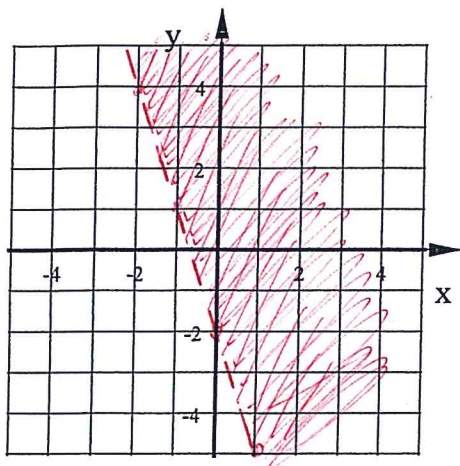
Yes $1 > 2(-1) - 4$
 $1 > -6 \text{ True}$

$-2 > 2(1) - 4$
 $-2 > -2 \text{ False}$

2. Graph each inequality. Shade the solution region.

a) $y > -3x - 2$

b) $36x - 24y \geq -72$



$x\text{-int} = -72/36 = -2$

$y\text{-int} = \frac{-72}{-24} = 3$

Test (0,0)

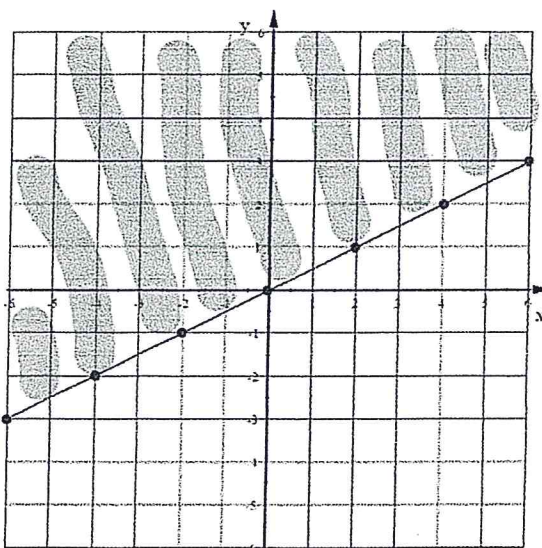
$36(0) - 24(0) \geq -72$

$0 \geq -72$

TRUE

shade the side with (0,0)

3. Write the inequality shown in the graph below.



LINE $\rightarrow y = \frac{1}{2}x$

SHADE ABOVE
 & SOLID LINE $\rightarrow$

$y \geq \frac{1}{2}x$