Daily Warm Up!

Q1

One solution,
no solution,
or all solutions?

$y - 3 = 4(x + 1)$

$y + 3 = -4(x + 1)$

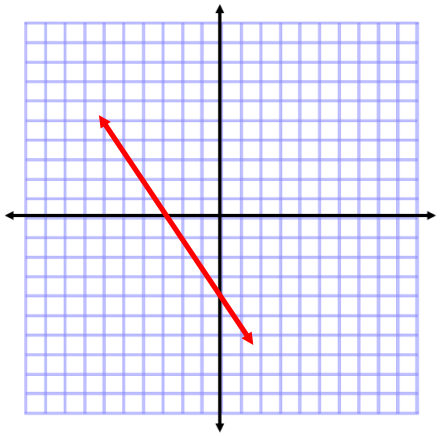
Q2

Put in Standard Form.

$y - 5 = 1/2x + 9$

Q3

Find the slope.



This week in class:

Monday: Test/Systems of Equations Review

Tuesday: 7-5 Intro to Linear Inequalities

Wednesday: 7-5 Graphing Linear Inequalities

Thursday: 7-5 Graphing Linear Inequalities

Friday: 7-6 Systems of Linear Inequalities

THE AGENDA

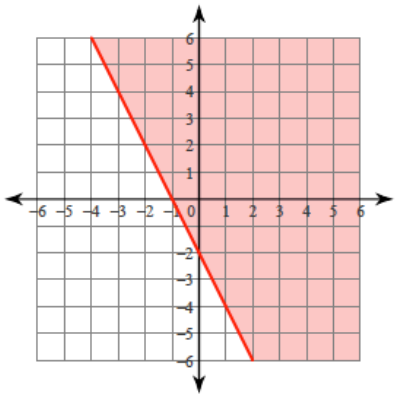
- Homework Check
- Foldable
- Homework
  - pg. 414-416

    #1-21 odd, 25, 27, 31, 32

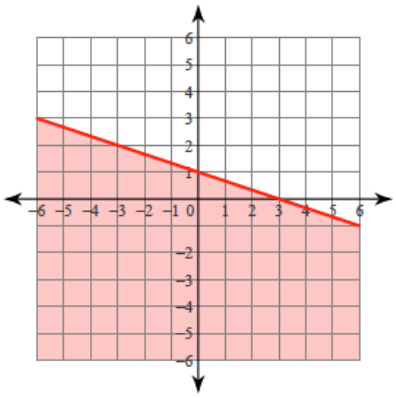
Homework Check

Worksheet 8

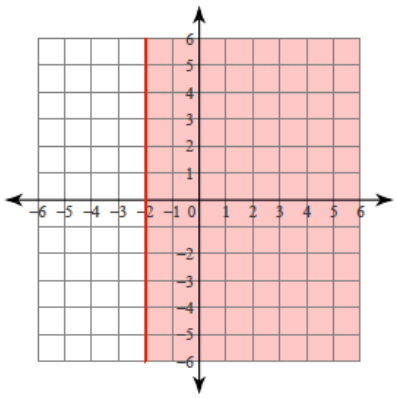
1) $y \geq -2x - 2$



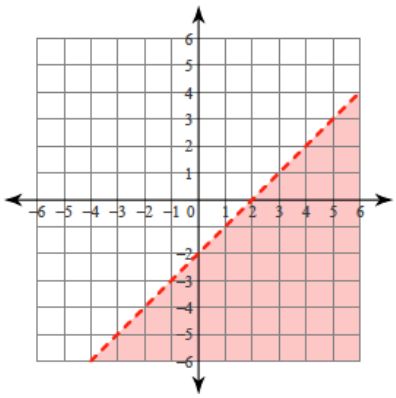
2) $y \leq -\frac{1}{3}x + 1$



3) $x \geq -2$

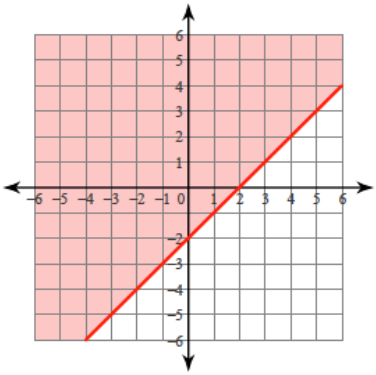


4) $y < x - 2$

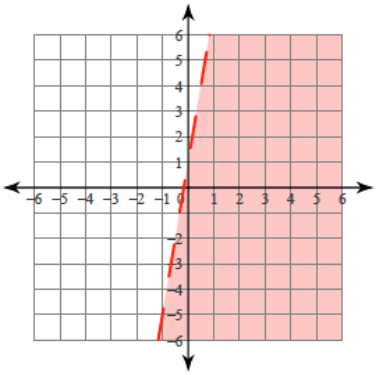


Homework Check Worksheet 8

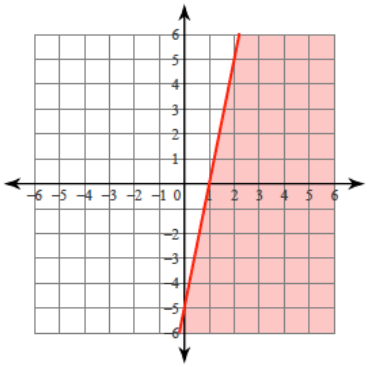
5) $y \geq x - 2$



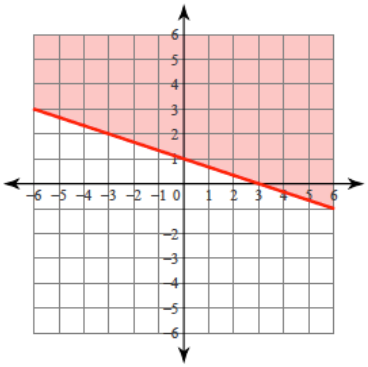
6) $y < 6x + 1$



7) $5x - y \geq 5$

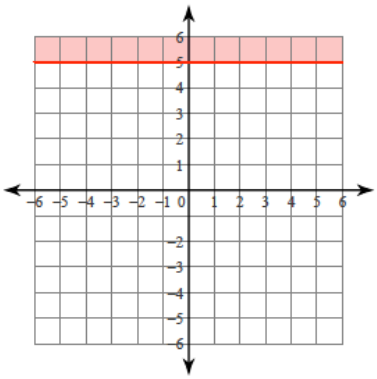


8) $x + 3y \geq 3$

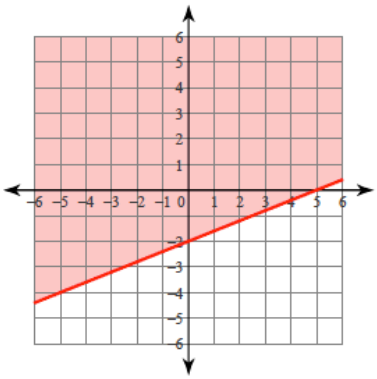


Homework Check Worksheet 8

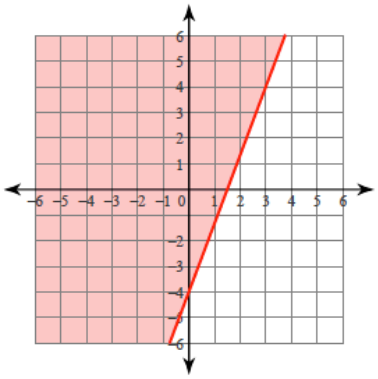
9) $y \geq 5$



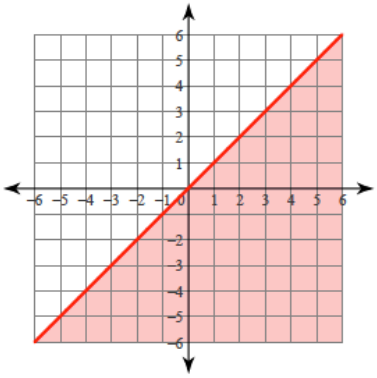
10) $2x - 5y \leq 10$



11) $8x - 3y \leq 12$



12) $x - y \geq 0$



Critical thinking questions:

13) Name one particular solution to #11

Any point in the shaded region or boundary. Ex: (0, 0)

14) Can you write a linear inequality whose solution contains only points with positive x-values and positive y-values? Why or why not?

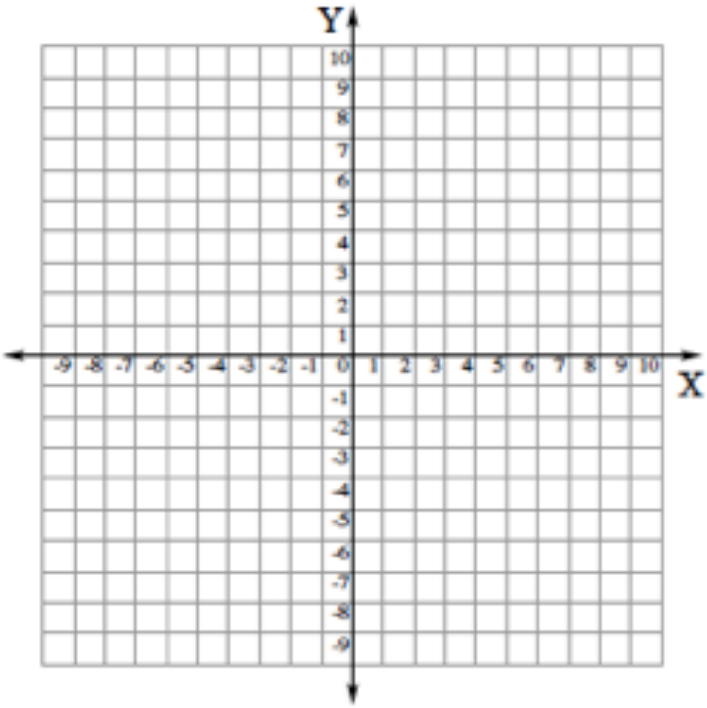
No. No line can be in only the 1st quadrant.

Systems of Inequalities!

Solve this system by graphing:

$$y > 4x - 3$$

$$y \geq -2x + 3$$



Get out your foldable!

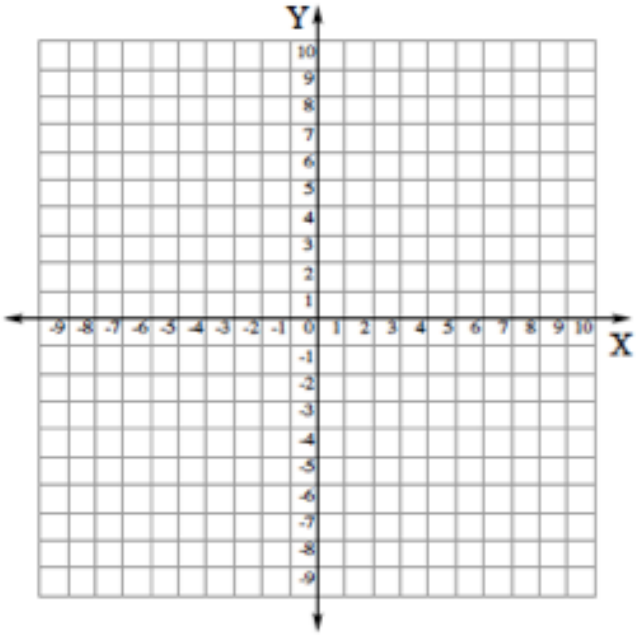
Solutions

Example	Instructions
	1. Graph both inequalities. 2. Overlapping shaded area is solution to system

Example 1:

$$y \geq x - 3$$

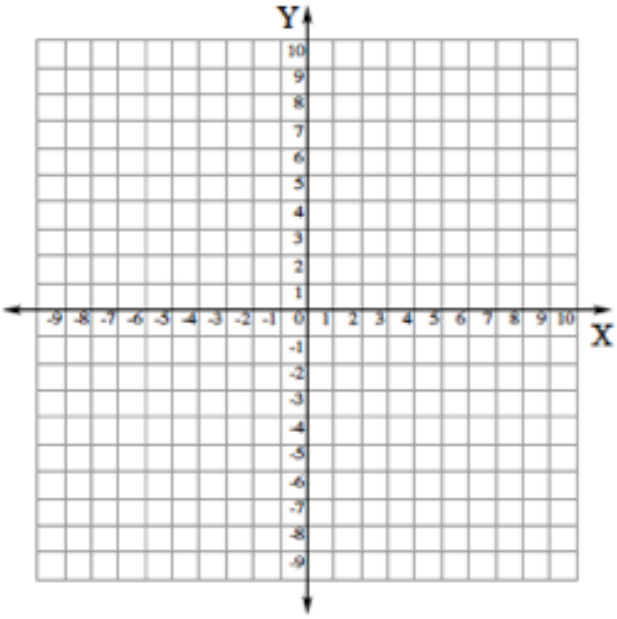
$$y \geq -x - 1$$



Example 2:

$$x + y > 2$$

$$2x - y > 1$$



Homework!

pg. 414–416

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