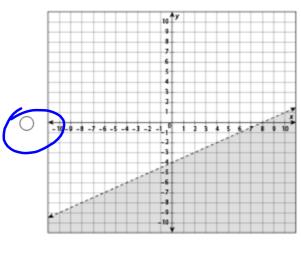
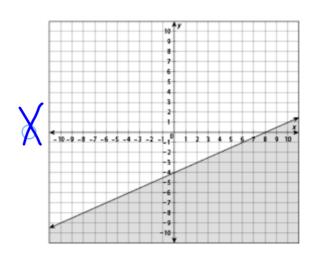
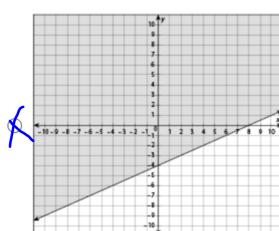
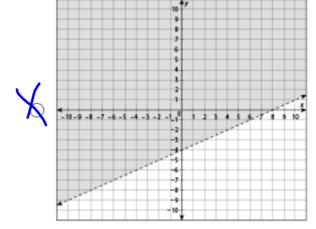
Graphing Inequalities
Warm-Up 12/5/17
Answer all 4 questions.

Which graph represents the solution to the inequality $y < \frac{1}{2}x - 4$?



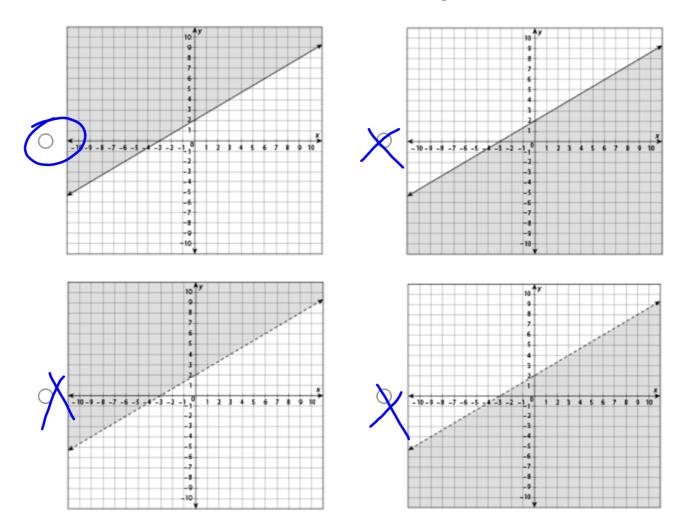






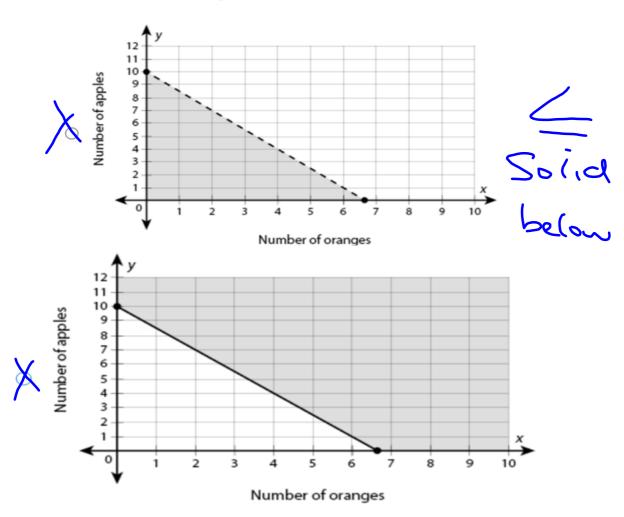
2

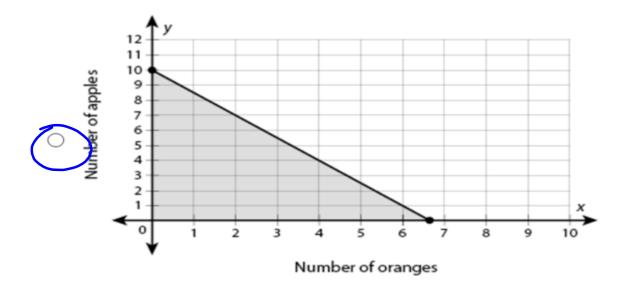
Which graph represents the solution to the inequality $2x-3y \leq -6$?

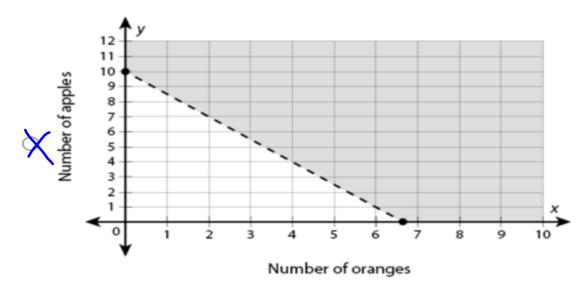


 $\frac{-3y}{-3} \leq -2x - 6$ $\frac{-3y}{-3} \leq -3$ 2x + 2 $0 \leq 2x + 2$ $0 \leq 2x + 3$ $0 \leq 2$

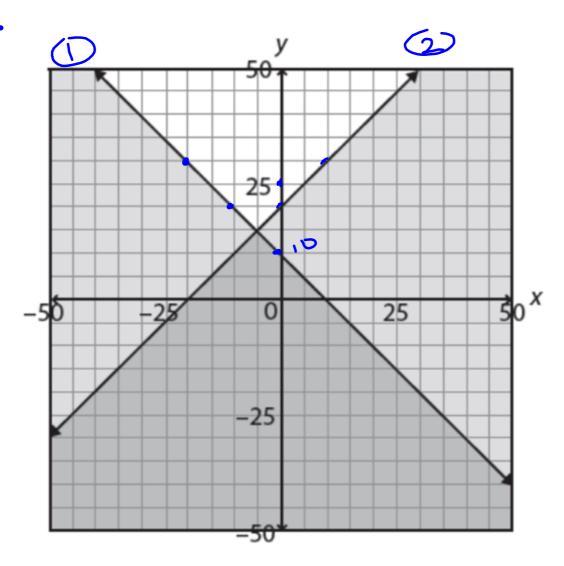
Mauricio's mother gave him \$5 to spend at the concession stand on fruit for himself and his friends. Oranges cost \$0.75 each, and apples cost \$0.50 each. What are the solutions to the inequality that represents the number of oranges and apples Mauricio can buy if x represents the number of oranges and y represents the number of apples?











$$D m = -\frac{2}{3} = -1 b = 10$$

$$y \le -1 x + 10$$

$$m = 1 b = 20$$

$$y \le 1 x + 20$$

Which of these systems of inequalities match the graph?

$$\bigcirc \left. \left\{ egin{array}{l} x+y>10 \ -x+y\geq 20 \end{array}
ight.
ight.$$

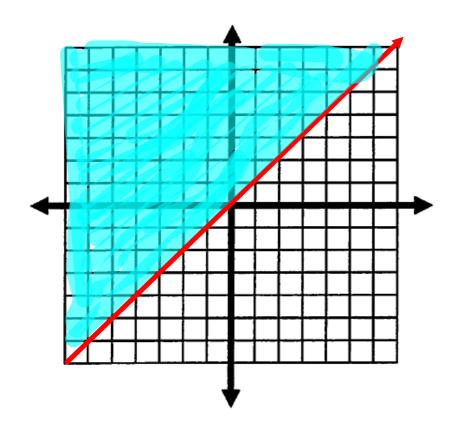
$$\bigcirc \, \left\{ egin{array}{ll} x+y \leq 10 \ -x+y \geq 20 \end{array} \,
ight. \,
ight.$$

$$\bigcirc \left. \left\{ egin{array}{l} -x-y \leq 10 \ x+y \geq 20 \end{array}
ight.
ight.
ight.$$

$$\bigcirc \left\{egin{array}{l} x+y \leq 10 \ -x+y \leq 20 \end{array}
ight.$$

From yesterday.....

- I. Graph the inequality.
- 1. $y \ge x$



Turn in the following HW assignments NOW!!!

- Substitution and
 Elimination # 1 12
- Solving Systems Word
 Problems # 7 12
- 3. Comic Strip Mini-Project.

Essential Question 12/5/17

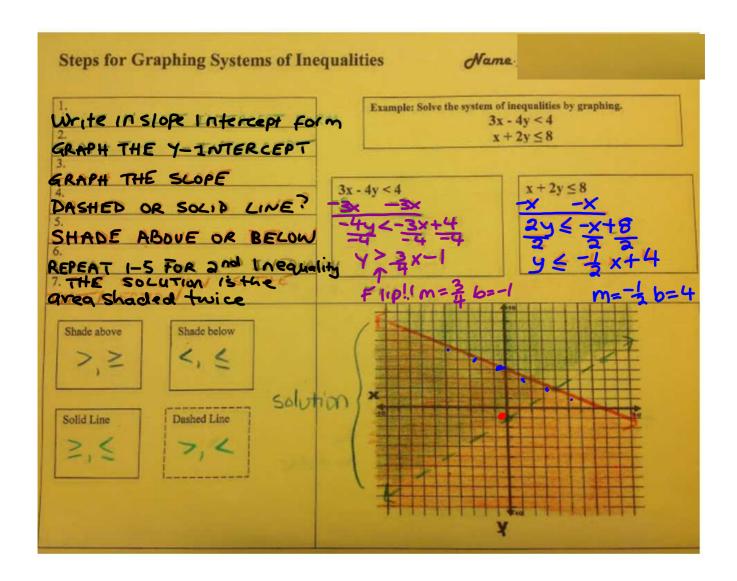
How do I graph a System of Linear Inequalities?

Standard: MGSE9-12.A.REI.12

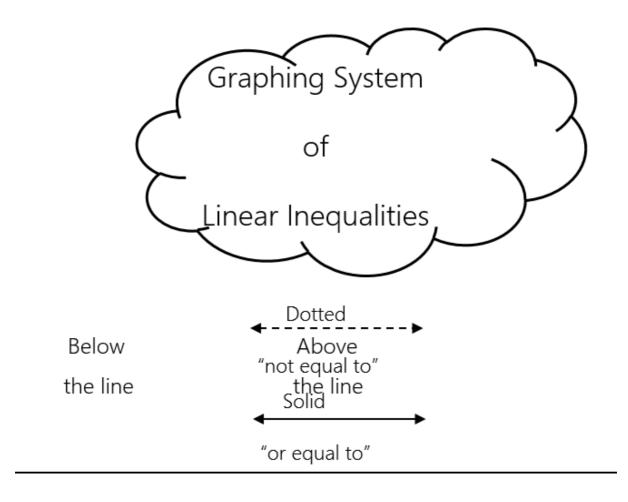
Graph the solution set to a linear inequality in two variables.

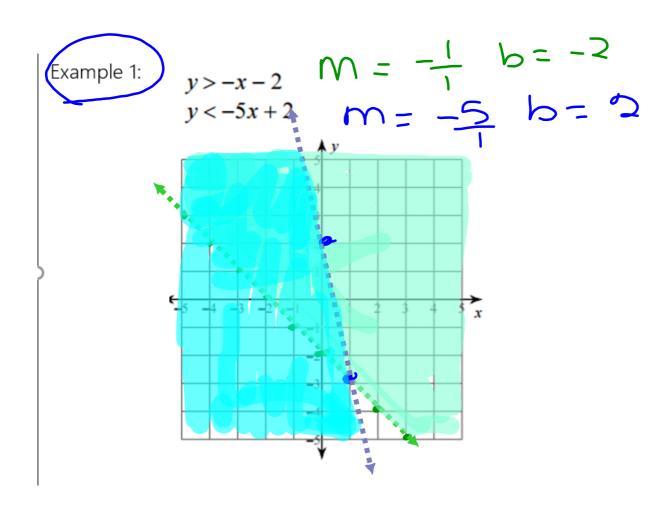
Graphing Systems of Linear Inequalities PPT

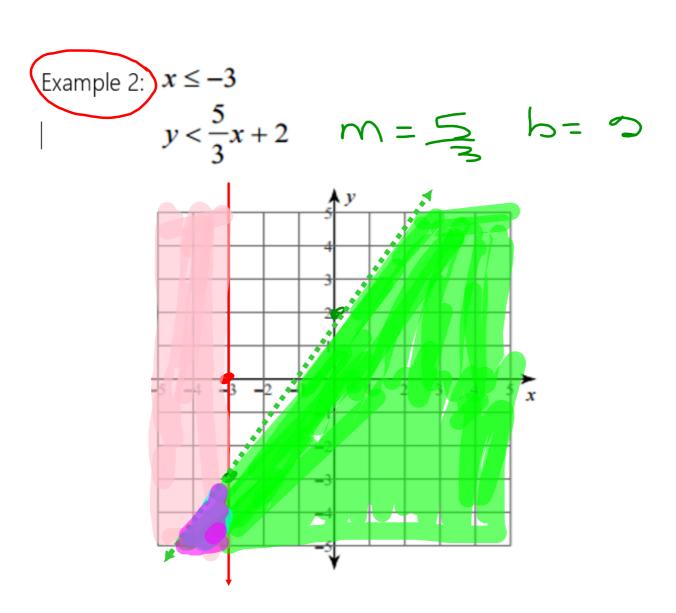
INB 12/5/17

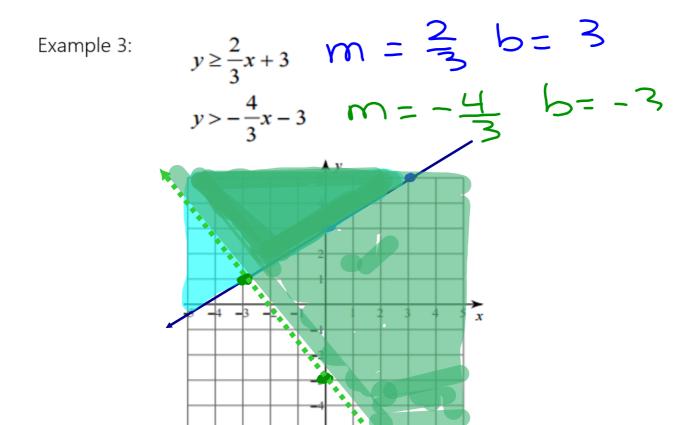


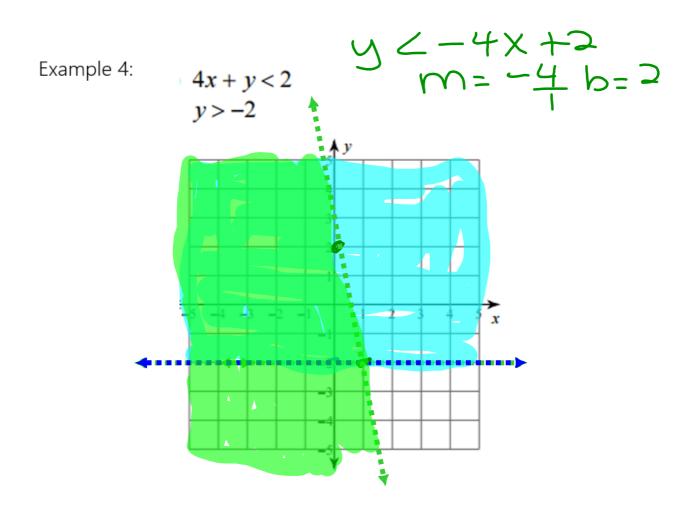
Guided Practice Notes

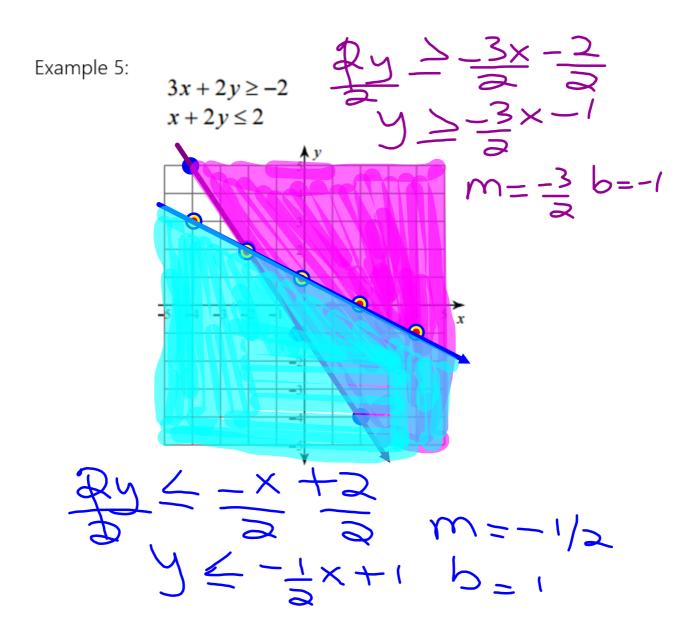








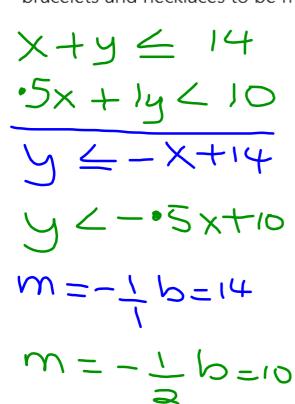


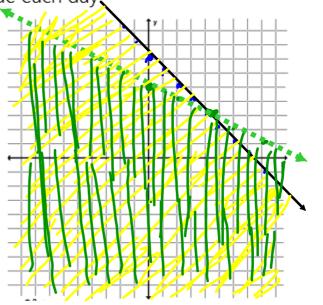


Application:

X

Example 6: It cost 50 cents to make a bracelet and \$1 to make a necklace. To make a profit, the total cost for bracelets and necklaces must be less than \$10. The jeweler can make no more than 14 pieces of jewelry each day. Write a system of inequalities to model the number of bracelets and necklaces to be made each day.





Day 11 Systems of Inequalities.pptx