

a colored pencil

• Graph the 2nd boundary line and shade the appropriate half plane with horizontal lines or a different colored pencil
• Darken the area where the two shaded regions everlap

The darkened area represents all of the solutions of the system.

Example 1: (y < -2x - 1)

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b.) Give 3 points that are not solutions to example 4.

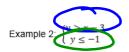
(3, 1) (-1, -2) (0, 2) (-2, 3)

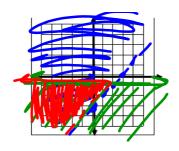
c.) Is a point on either boundary line a solution? Why or why not?

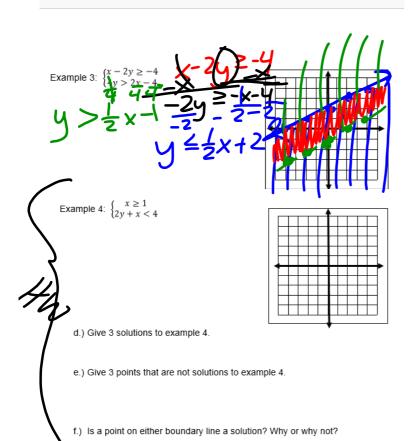
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. Graph the first boundary line and shade the appropriate half plane with vertical lines or

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Practice/Closure Day 2 Solving Systems of Inequalities Continued

Treasure Hunt

An archeologist has discovered a series of coordinates that may represent the location of buried treasure. After deciphering the coded messages, it seems that the only true coordinates of the treasures are those coordinates that lie within the solution of the systems of inequalities.

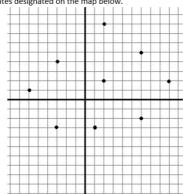
Potential Treasures may be located at the coordinates designated on the map below.

$$2x + 3y \le 18$$

$$-4x - 4y < 8$$

$$-3x + 4y \le 12$$

$$4x - 5y < 20$$



Location of the treasure: _____