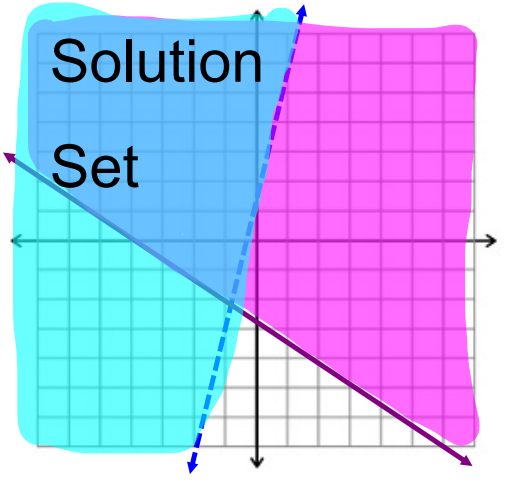
5-4 Systems of Linear Inequalities

Objectives: I can graph a system of linear inequalities

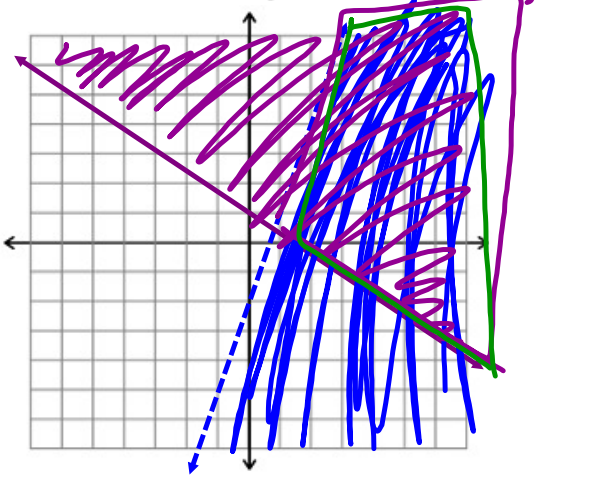
Vocab: Solution set

Solution to a system of Inequalities

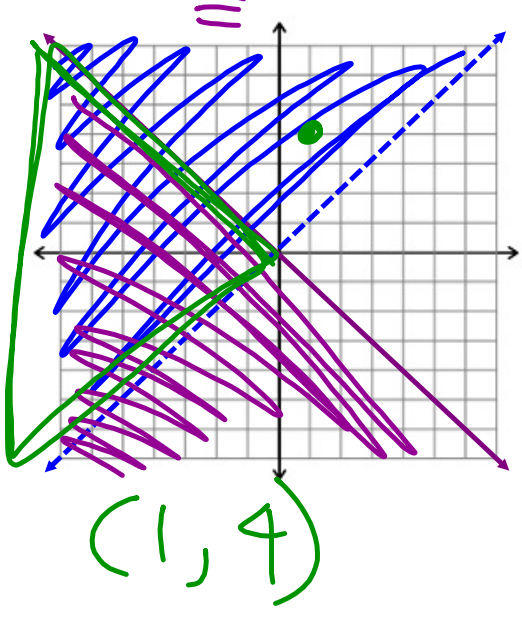


Practice finding the solution set

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

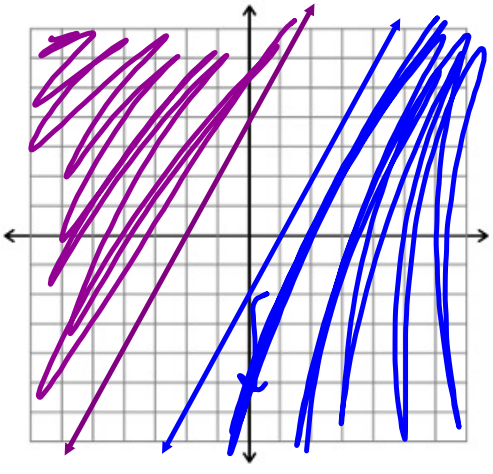


- $y > x$
- $y \leq -x$



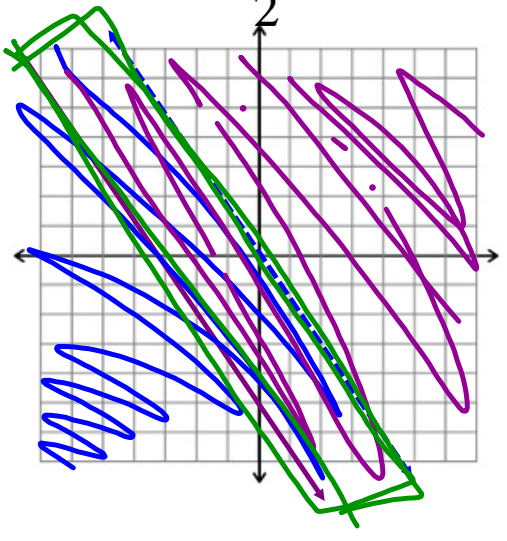
Practice finding the solution set

- $y < 2x - 2$
- $y > 2x + 4$



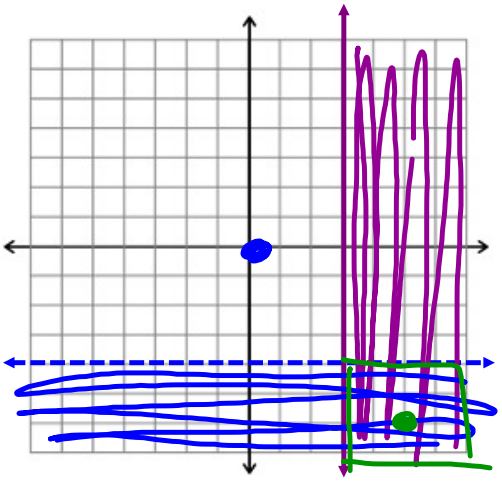
NO SOLUTION

- $y < -\frac{3}{2}x$
- $y \geq -\frac{3}{2}x - 5$



Find the solution set

- $x \geq 3$
- $y < -4$



Is (0,0) a solution?

No

Is (5,-6) a solution?

yes

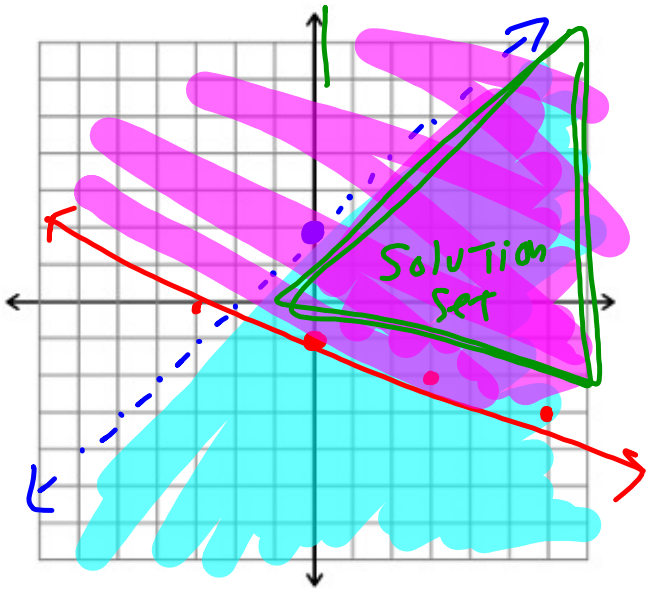
List one ordered pair that IS a solution: (IN BOX)

List one ordered pair that is NOT a solution: (OUT of Box)

Solve the system of inequalities by graphing

$y < x + 2$

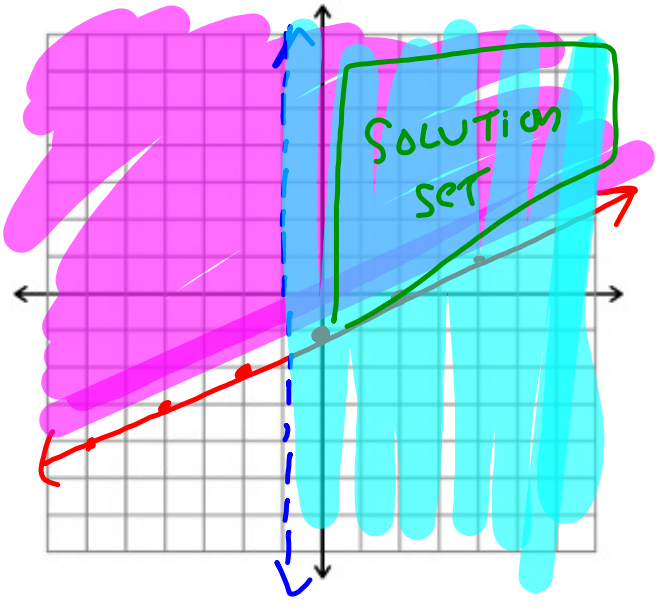
$y \geq -\frac{1}{3}x - 1$



Solve the system of inequalities by graphing:

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

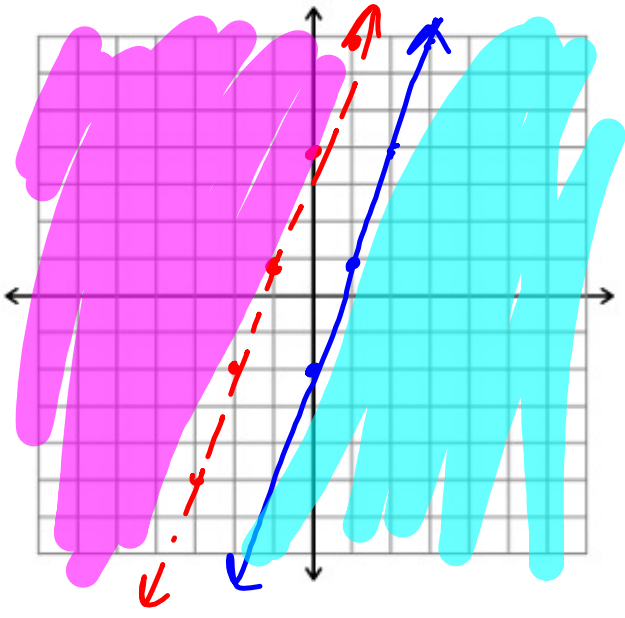
$$x > -1$$



Solve the system of inequalities by graphing:

$$y \leq 3x - 2$$

$$y > 3x + 4$$

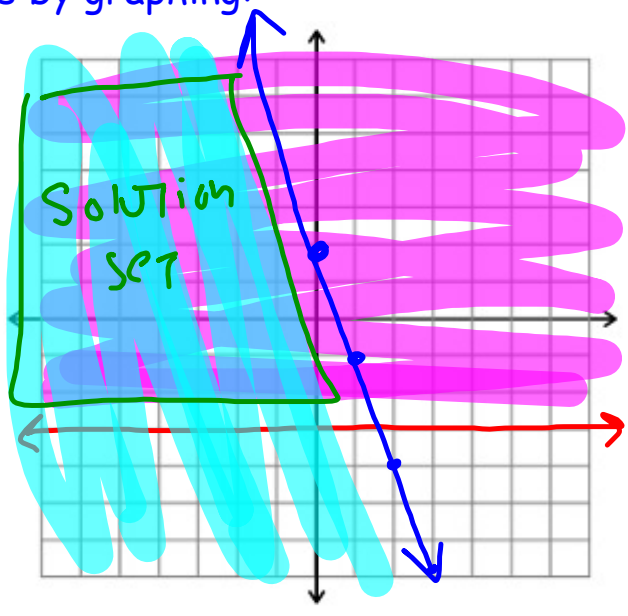
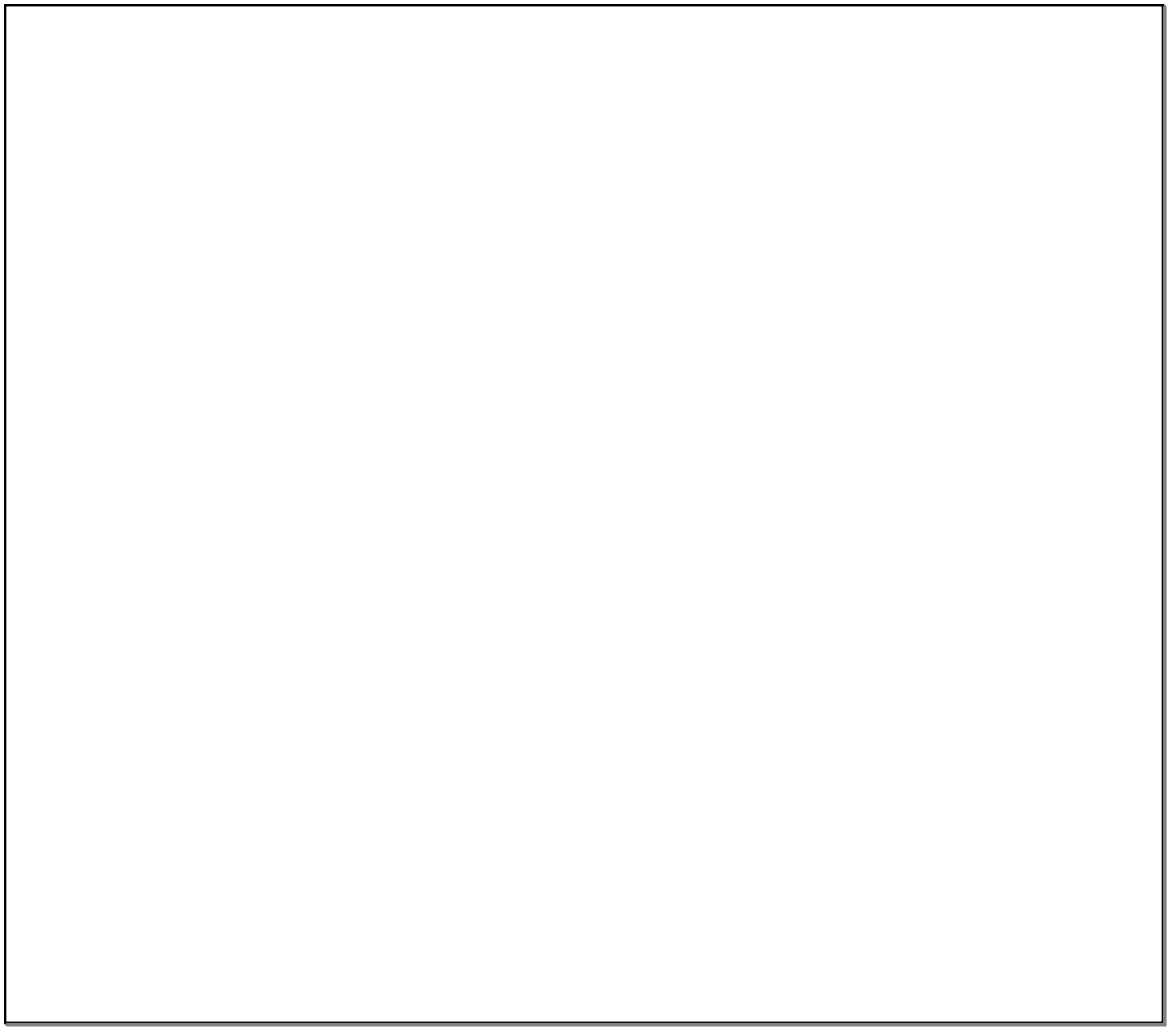


No Solution

Solve the system of inequalities by graphing:

$$y \geq -4$$

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