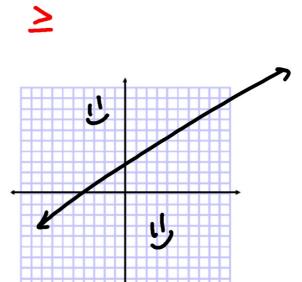
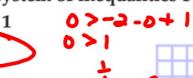
Algebra 1 6.6
Solve systems of linear inequalities by graphing \* Ch. 5.6
Apply systems of linear inequalities

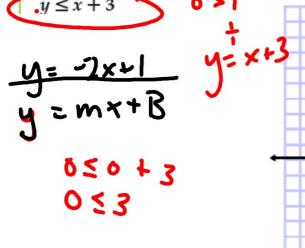


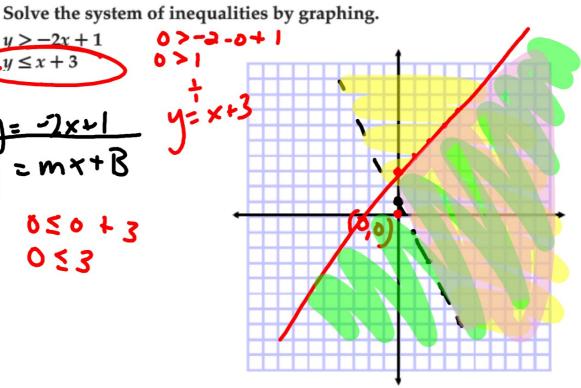


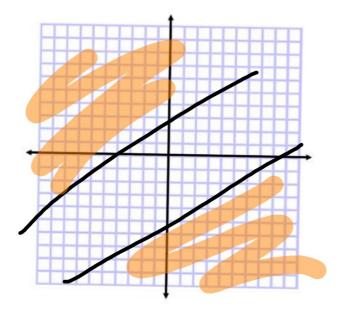
- 1. graph boundary (solid or dotted?)
- 2. choose a test point and shade T
- 3. repeat for other inequality
- 4. Answer?

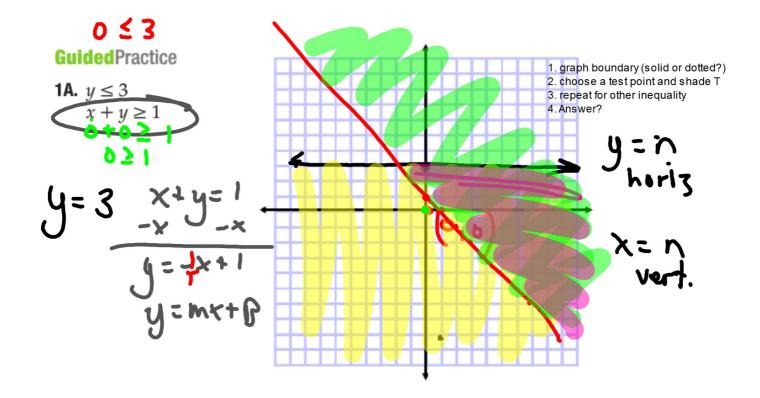
$$y > -2x + 1$$
$$y \le x + 3$$



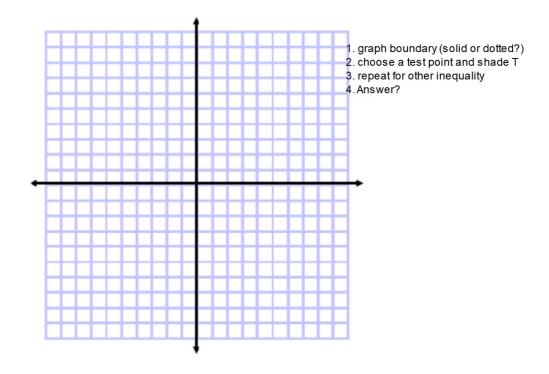




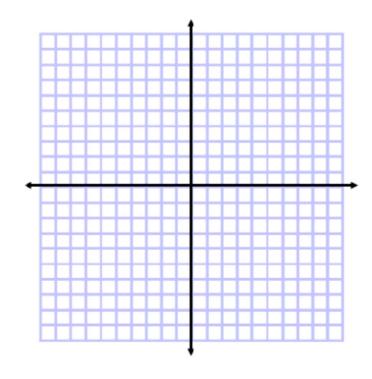




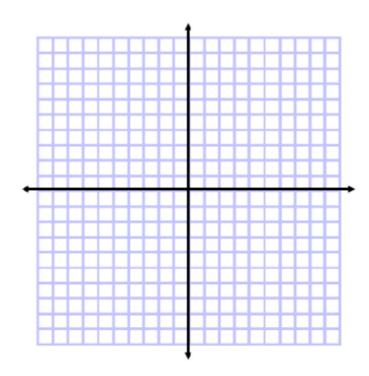
**1B.**  $2x + y \ge 2$ 2x + y < 4



Whiteboards  $\textbf{16. } y \geq -4 \\ 3x + y \leq 2$ 



**1D.** 
$$x + y > 2$$
  
 $-4x + 2y < 8$ 

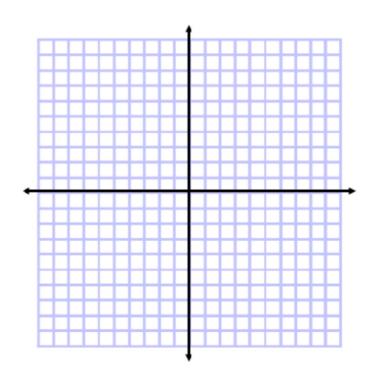


## Where is it shaded by both?

## **Example 2** No Solution

Solve the system of inequalities by graphing.

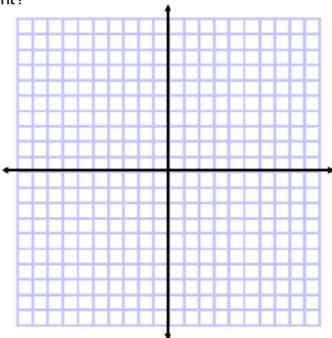
$$3x - y \ge 2$$
$$3x - y < -5$$



How is this problem different?

GuidedPractice

**2A.** y > 3y < 1



**2B.** 
$$x + 6y \le 2$$
  $y \ge -\frac{1}{6}x + 7$ 

