



Math Virtual Learning

# Algebra 1 S-1

May 4, 2020



Grade/Course  
Lesson: [May 4]

**Objective/Learning Target:**

Students will graph systems of inequalities (given in slope-intercept form).  
(May 4 lesson)




# Brainstarter

"Remember  
Take Notes"

# Let's Get Started

[Watch Video 1:](#)





Things to remember  
about system of linear  
inequalities.

$<$  &  $>$  symbols result  
in a dashed line.

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$\leq$  &  $\geq$  symbols  
result in a solid  
line

\_\_\_\_\_

When you multiply or  
divide by a negative  
number, flip the sign !

A System of Linear inequalities can be solved by graphing. The portion of overlap is the solution.



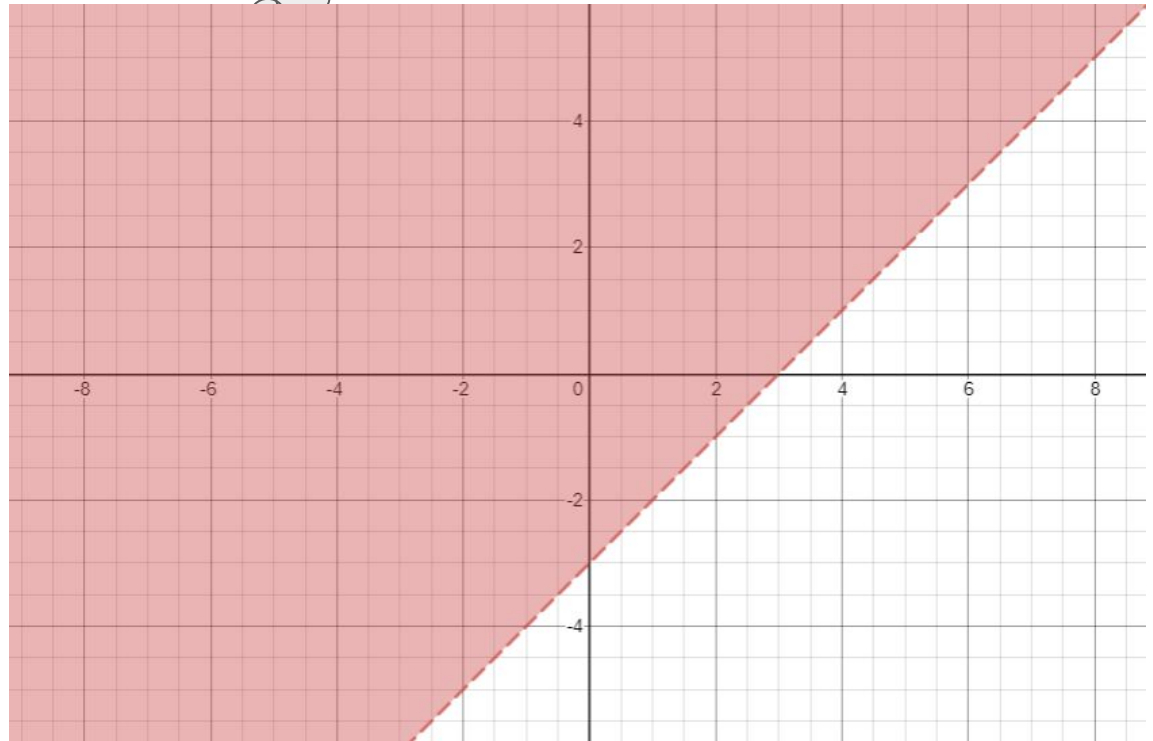


Solve by graphing

$$y > x - 3$$

$$y > -x + 1$$

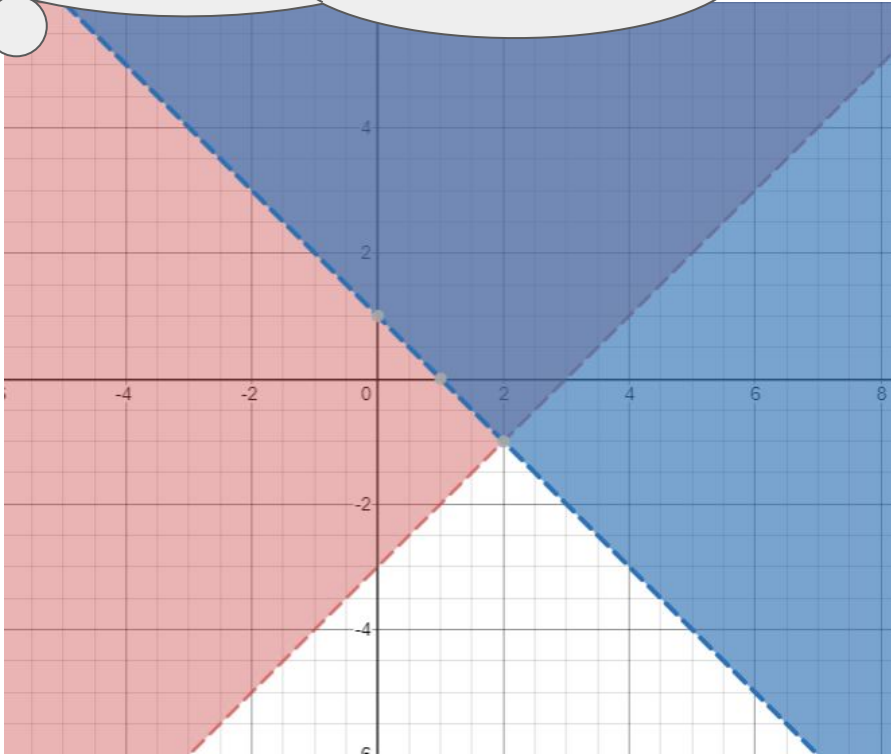
Graph the first inequality  
 $y > x - 3$







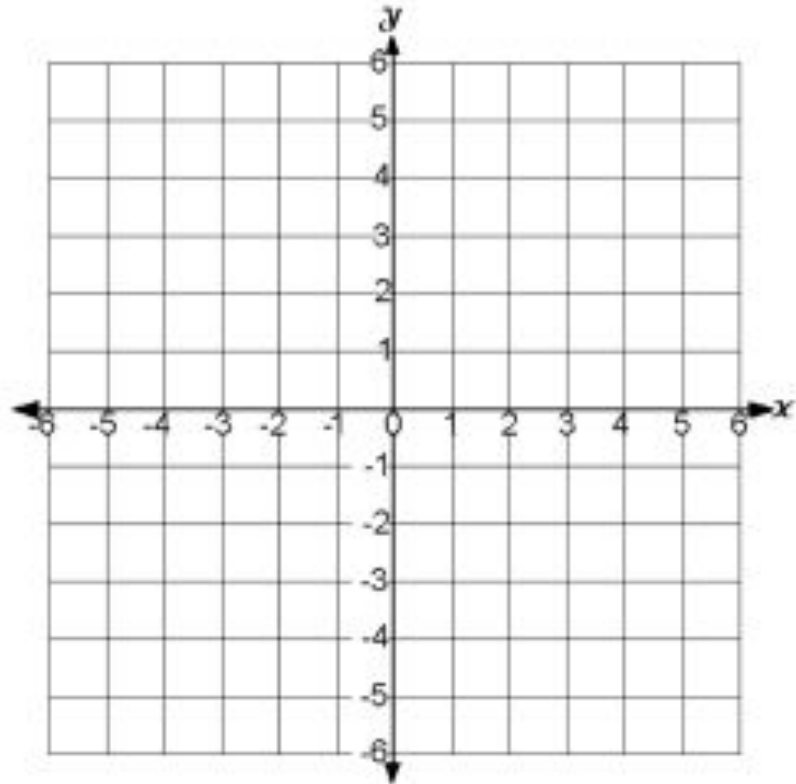
Now graph the second inequality.  
 $y > -x + 1$   
The overlapping shading is your solution



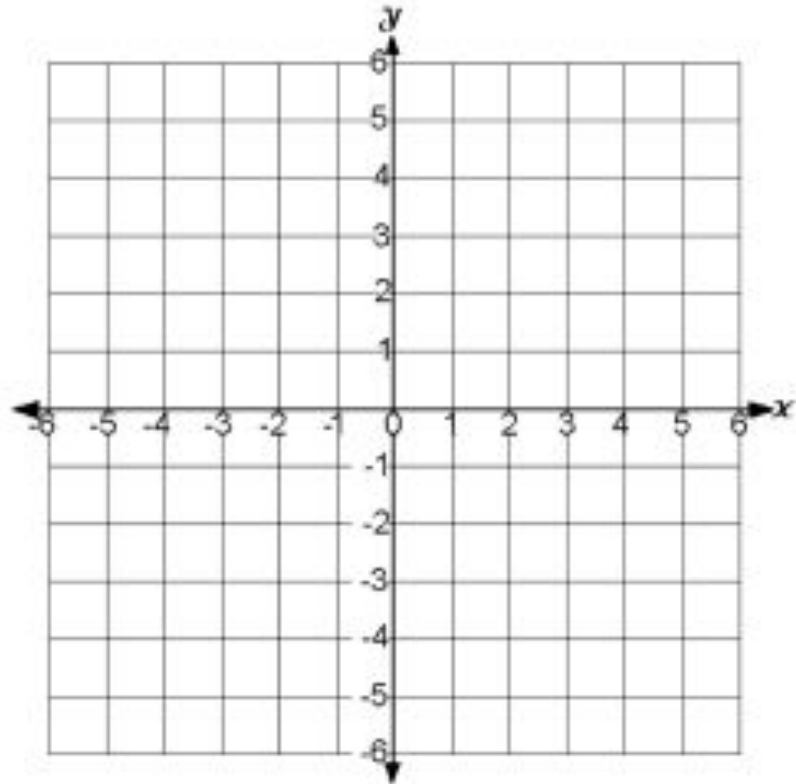


Now it's your turn!

1).  $y > -5x + 3$   
 $y > -2$

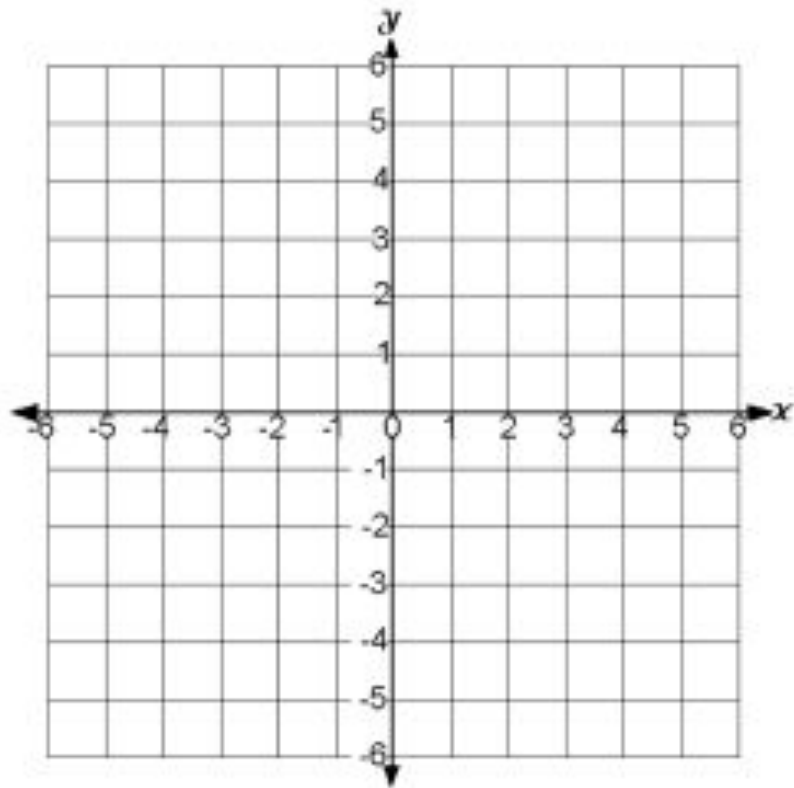


2).  $y > 4x - 3$   
 $y \geq -2x + 3$



3).

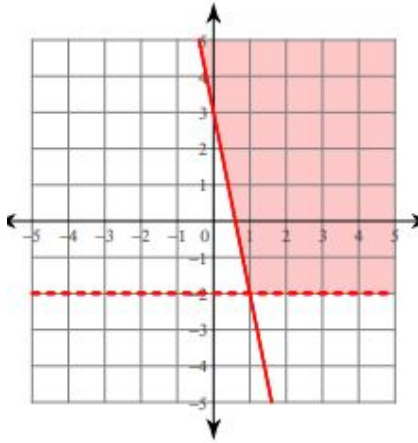
$$\begin{cases} y < \frac{1}{2}x - 3 \\ y \geq -x + 2 \end{cases}$$



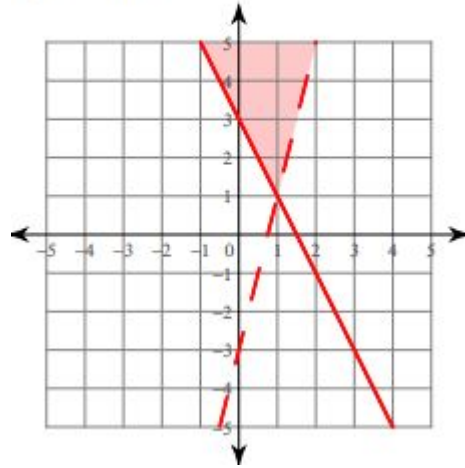
# Answer Key:

Once you have completed the problems, check your answers here.

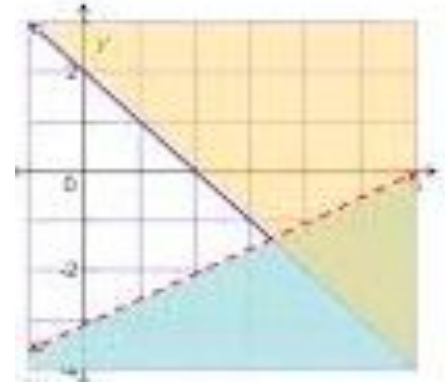
$$\begin{cases} y \geq -5x + 3 \\ y > -2 \end{cases}$$



$$\begin{cases} y > 4x - 3 \\ y \geq -2x + 3 \end{cases}$$



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



## Additional Practice:

Click on the links below to get additional practice and to check your understanding!

[Graph systems of inequalities \(given in slope-intercept form\).](#)

