



Math Virtual Learning

Algebra 1 Semester 1

April 15, 2020



Grade/Course

Lesson: April 15, 2020

Objective/Learning Target:
Students will graph inequalities.

Practice from Yesterday



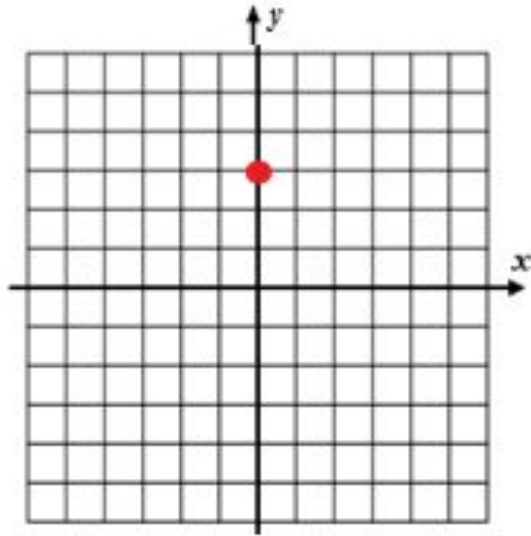
Let's Get Started:
[Watch Video:](#)



Remember "Take Notes"

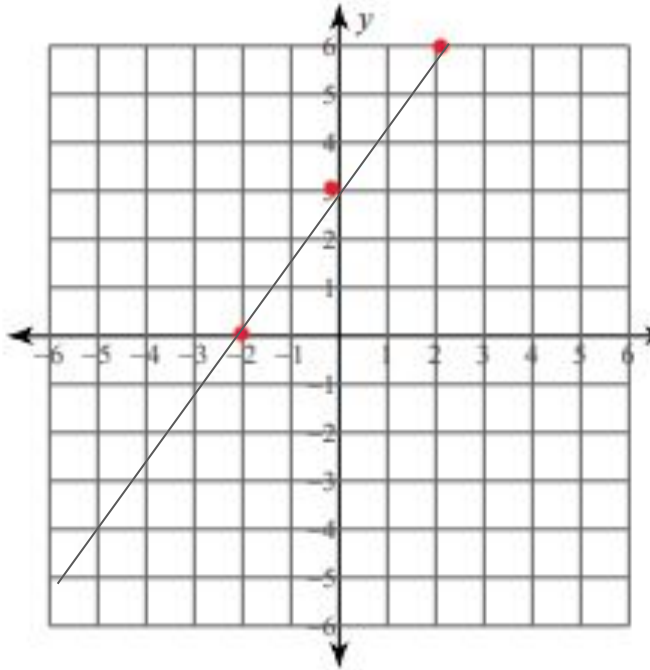
GRAPHING INEQUALITIES

To graph an inequality simply means to plot (or shade) **all** (x, y) pairs that make the inequality true



$$y \leq \frac{3}{2}x + 3$$

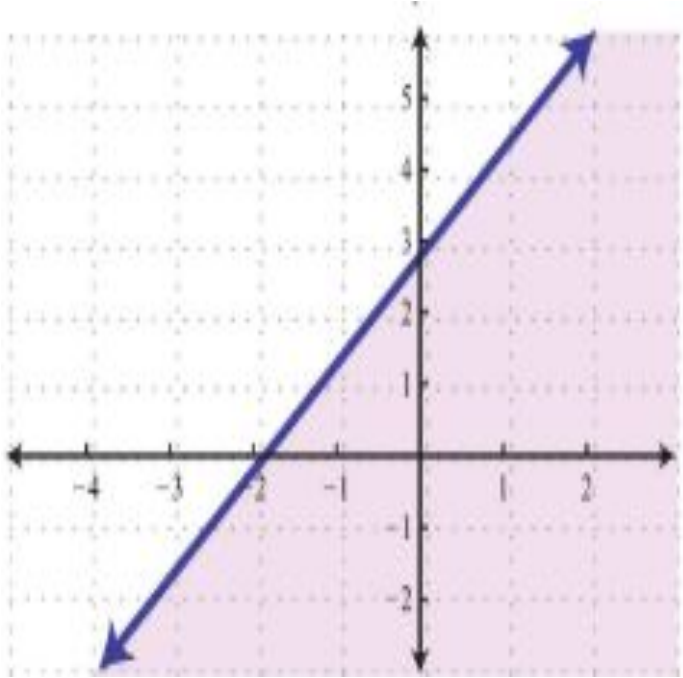
Graph y intercept



Plot two points using the inequality

$$y \leq \frac{3}{2}x + 3$$

Plot the "y=" line (make it a solid line for $y \leq$ or $y \geq$, and a dashed line for $y <$ or $y >$)



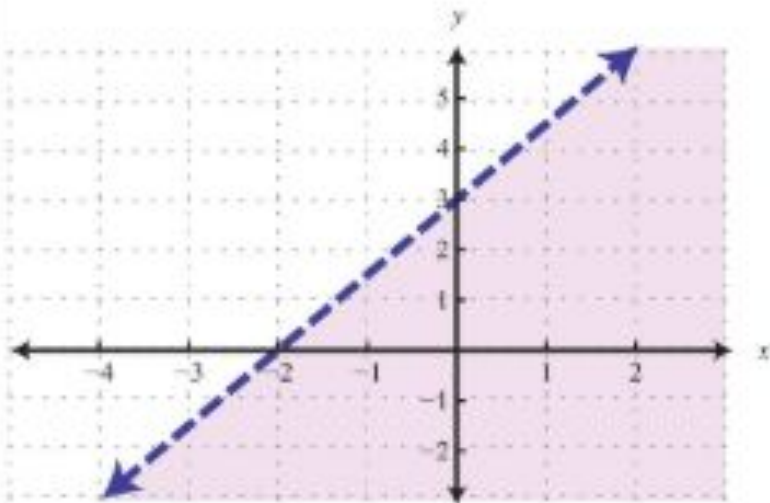
Shade below the line because y is less than.

Using the point $(0,0)$ check to see if your inequality is true.

$$0 \leq 0 + 3$$

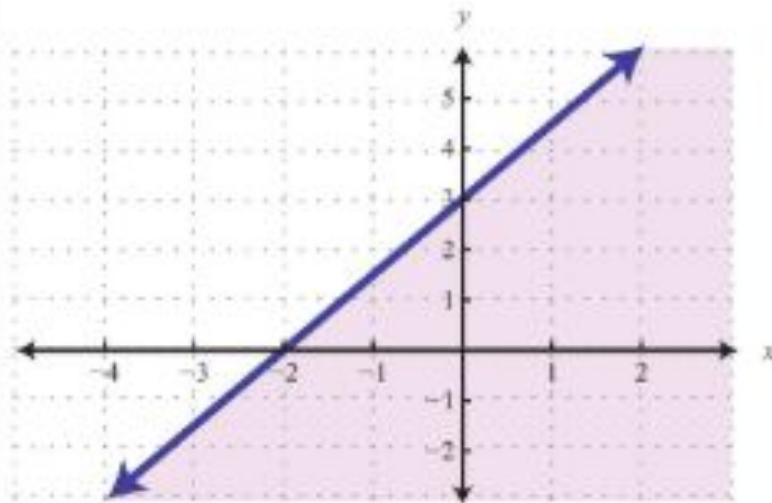
Dashed Line $<$, $>$

$$y < \frac{3}{2}x + 3$$



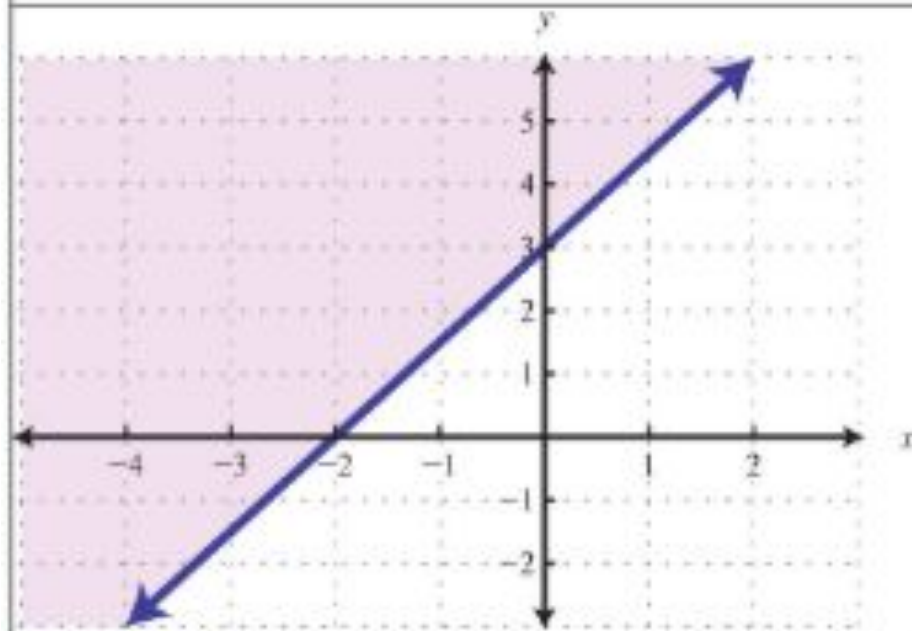
Solid Line \leq , \geq

$$y \leq \frac{3}{2}x + 3$$



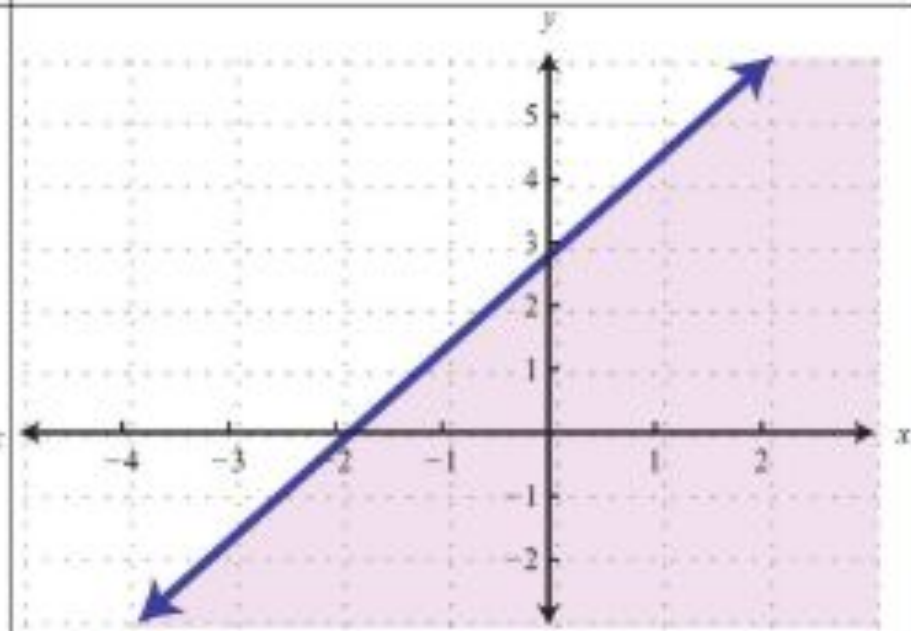
Greater Than (Above)

$$y \geq \frac{3}{2}x + 3$$

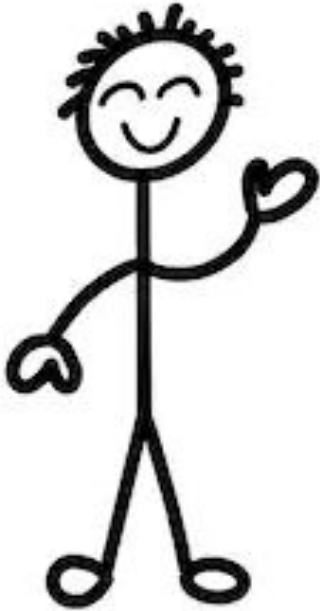


Less Than (Below)

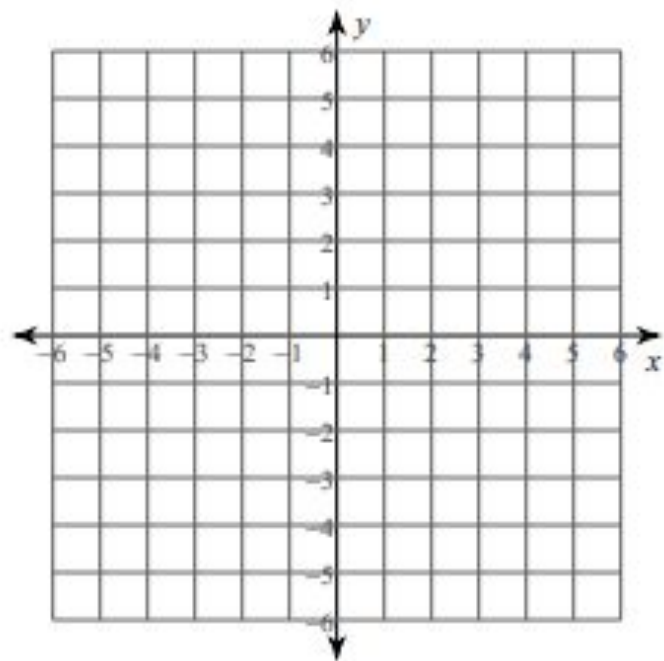
$$y \leq \frac{3}{2}x + 3$$



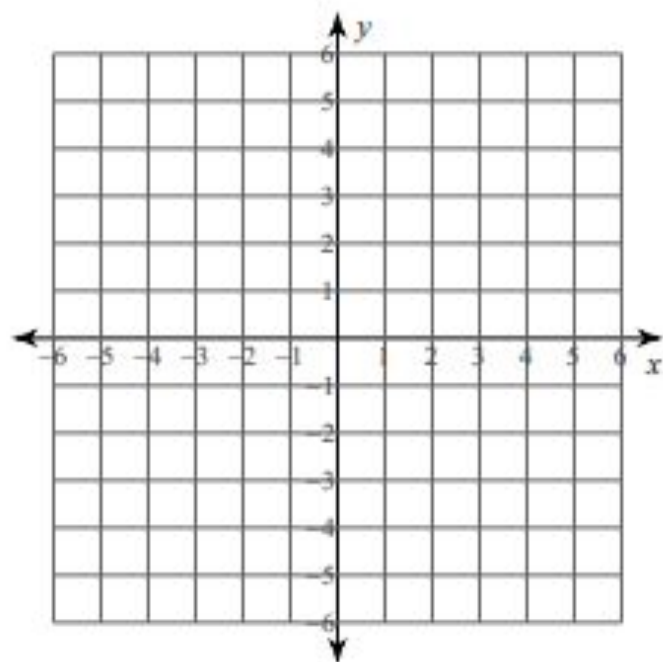
Now it's your turn



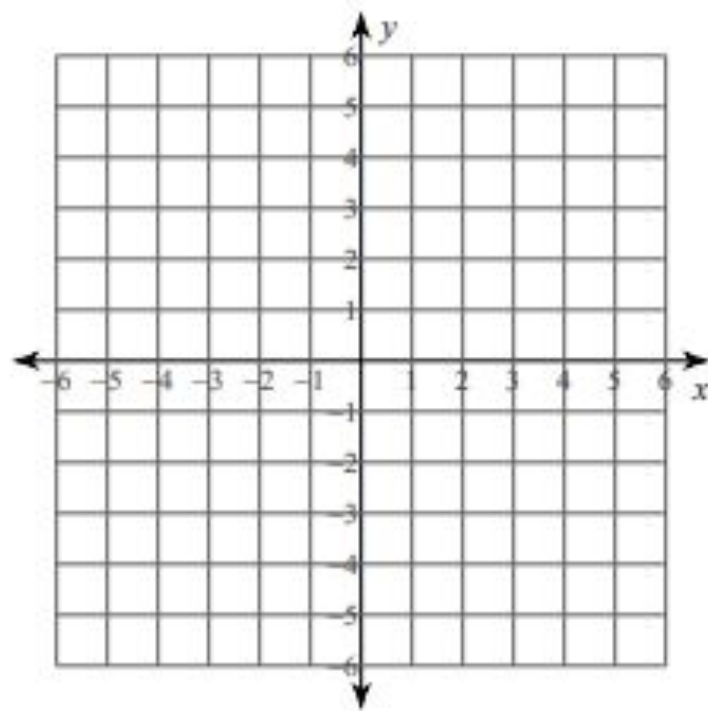
1) $y \geq -3x + 4$



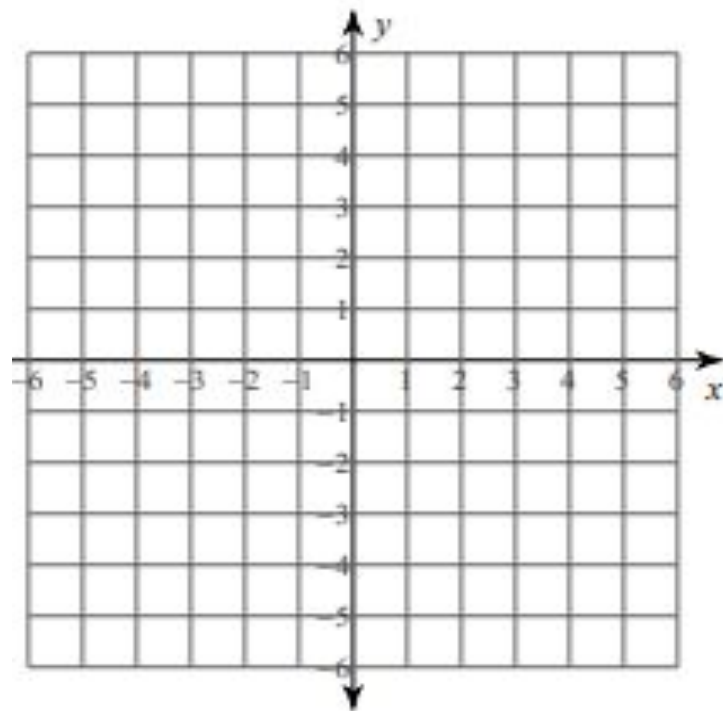
2) $y \leq \frac{3}{5}x - 5$



3) $y > -x - 5$



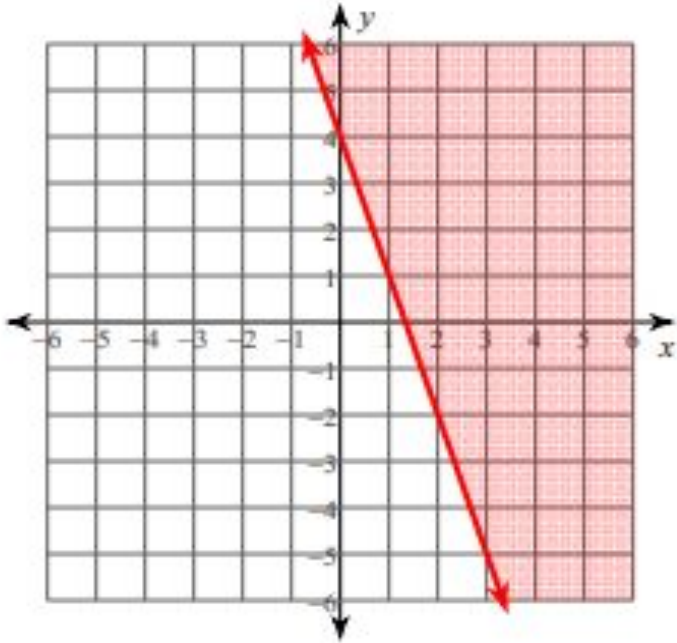
4) $y > 2x - 5$



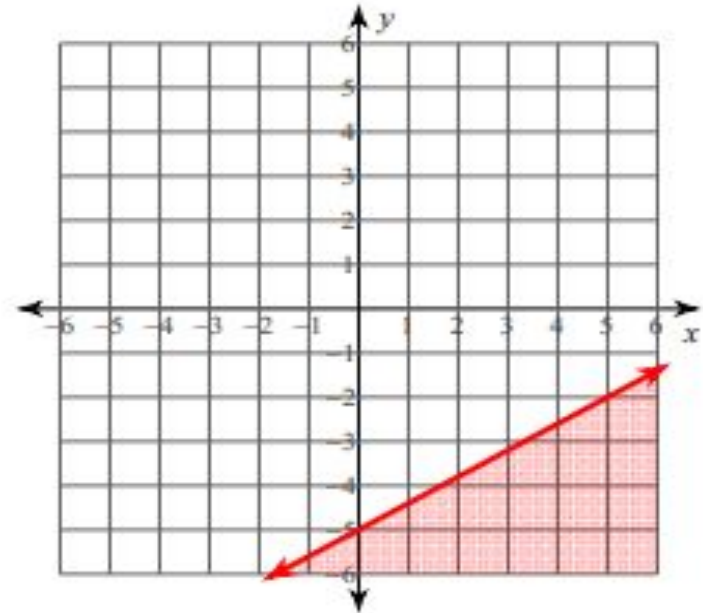
Answer Key:

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

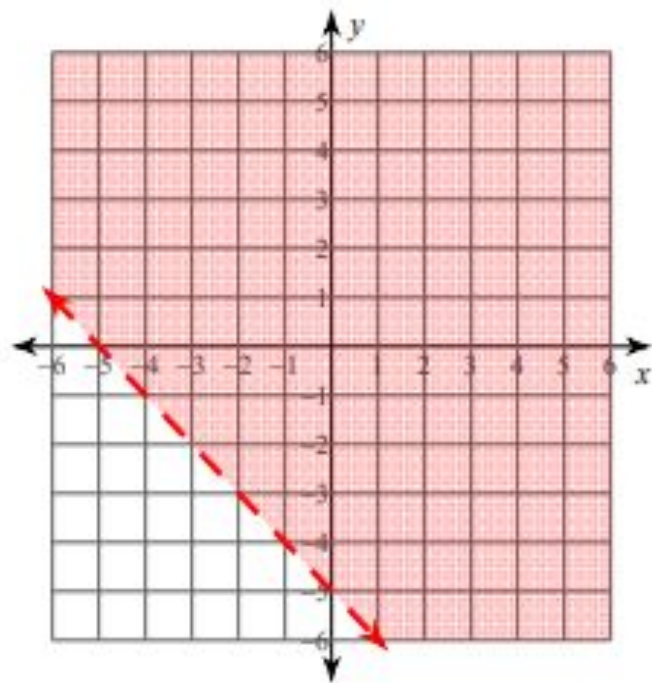
1) $y \geq -3x + 4$



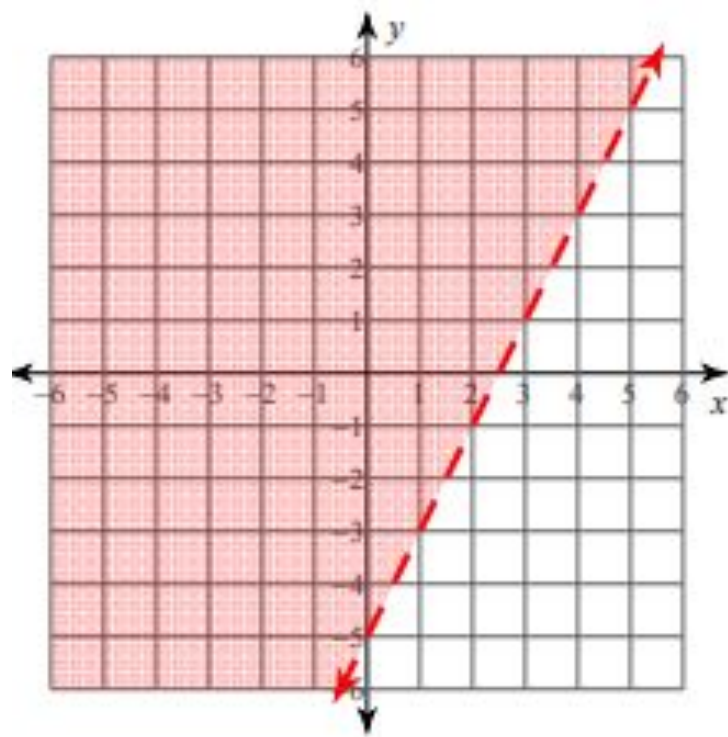
2) $y \leq \frac{3}{5}x - 5$



3) $y > -x - 5$



4) $y > 2x - 5$



Additional Practice:

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

[Graphing Inequalities](#)

Click continue without signing in if prompted.

