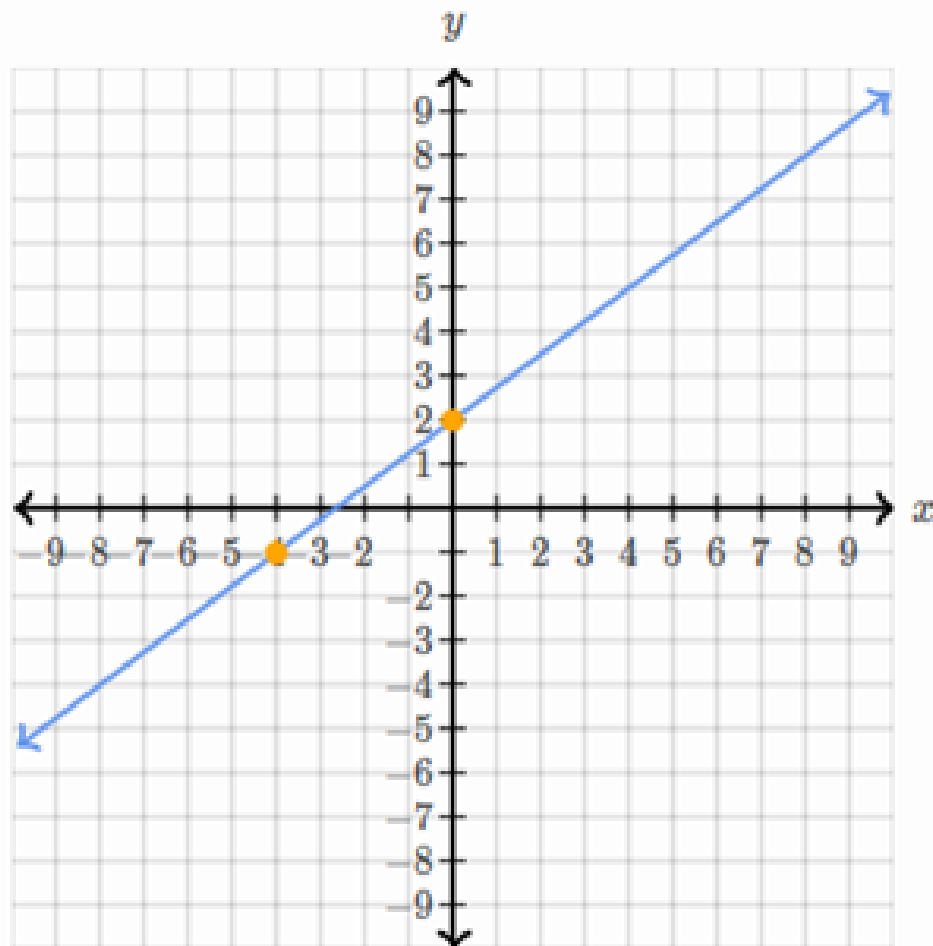


Do Now:

Write the Equation of the line graphed below. Include the slope AND y-intercept.

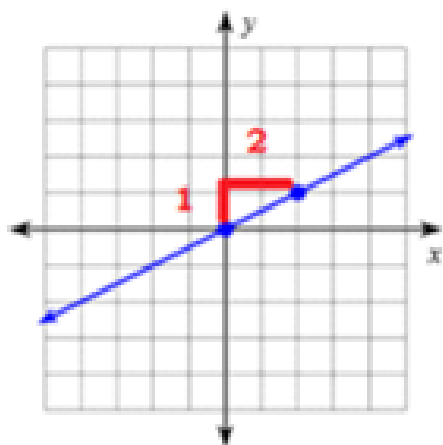
Then write the equation of a perpendicular line.



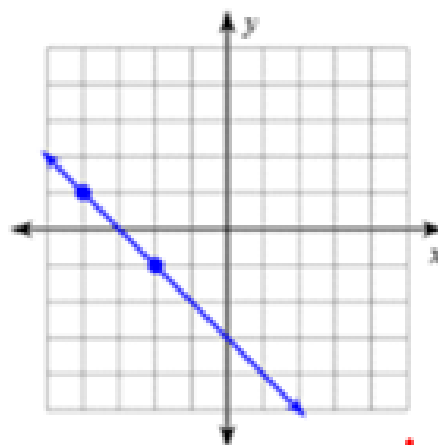
Test Questions.. ?

Homework Answers

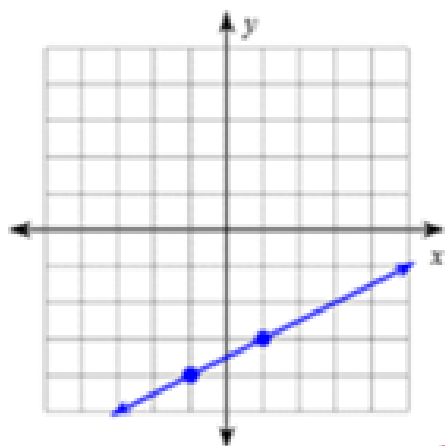
1)

slope = $1/2$ Equation of this line: $y = 1/2 x + b$ Equation of Perpendicular Line: $y = -2x + b$

2)

Equation of this line: $y = -1x + b$ Equation of Perpendicular Line: $y = 1x + b$

3)



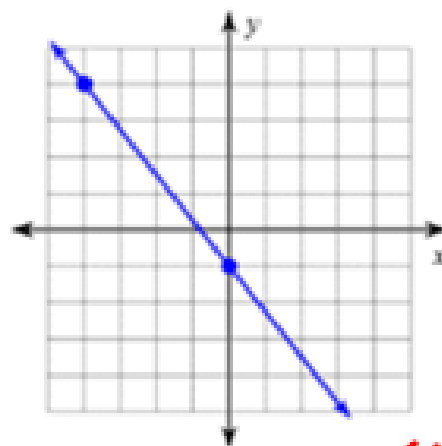
Equation of this line:

$$y = \frac{1}{2}x + b$$

Equation of Perpendicular Line:

$$y = -2x + b$$

4)



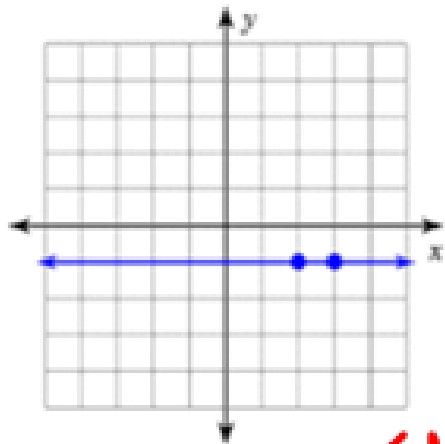
Equation of this line:

$$y = \frac{-5}{4}x + b$$

Equation of Perpendicular Line:

$$y = \frac{4}{5}x + b$$

5)

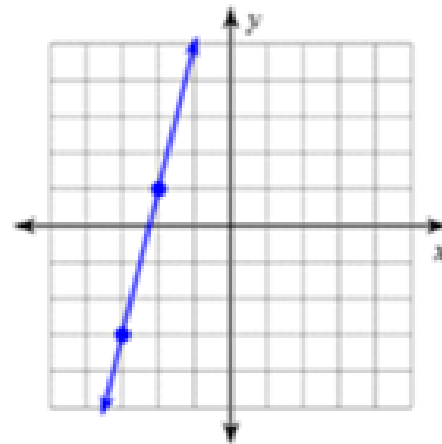


slope = $\frac{0}{1}$

Equation of this line:

$y = 0x + b$
Equation of Perpendicular Line: undefined.

6)



Equation of this line:

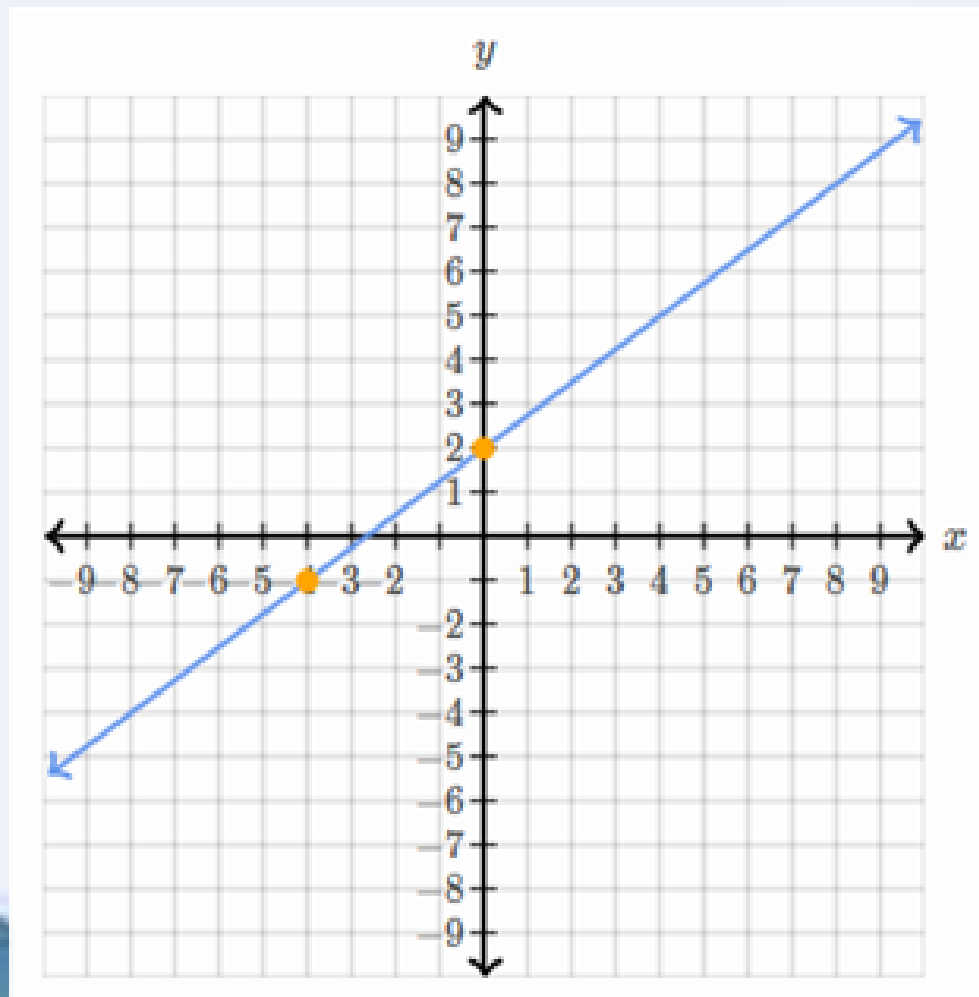
$y = 4x + b$
Equation of Perpendicular Line: $y = -\frac{1}{4}x + b$

$\frac{1}{0}$

Do Now:

Write the Equation of the line graphed below. Include the slope AND y-intercept.

Then write the equation of a perpendicular line.



$$y = \frac{3}{4}x + 2$$

$$y = -\frac{4}{3}x + 2$$

MVP Section 6.2b

Graphing Parallel & Perpendicular Lines

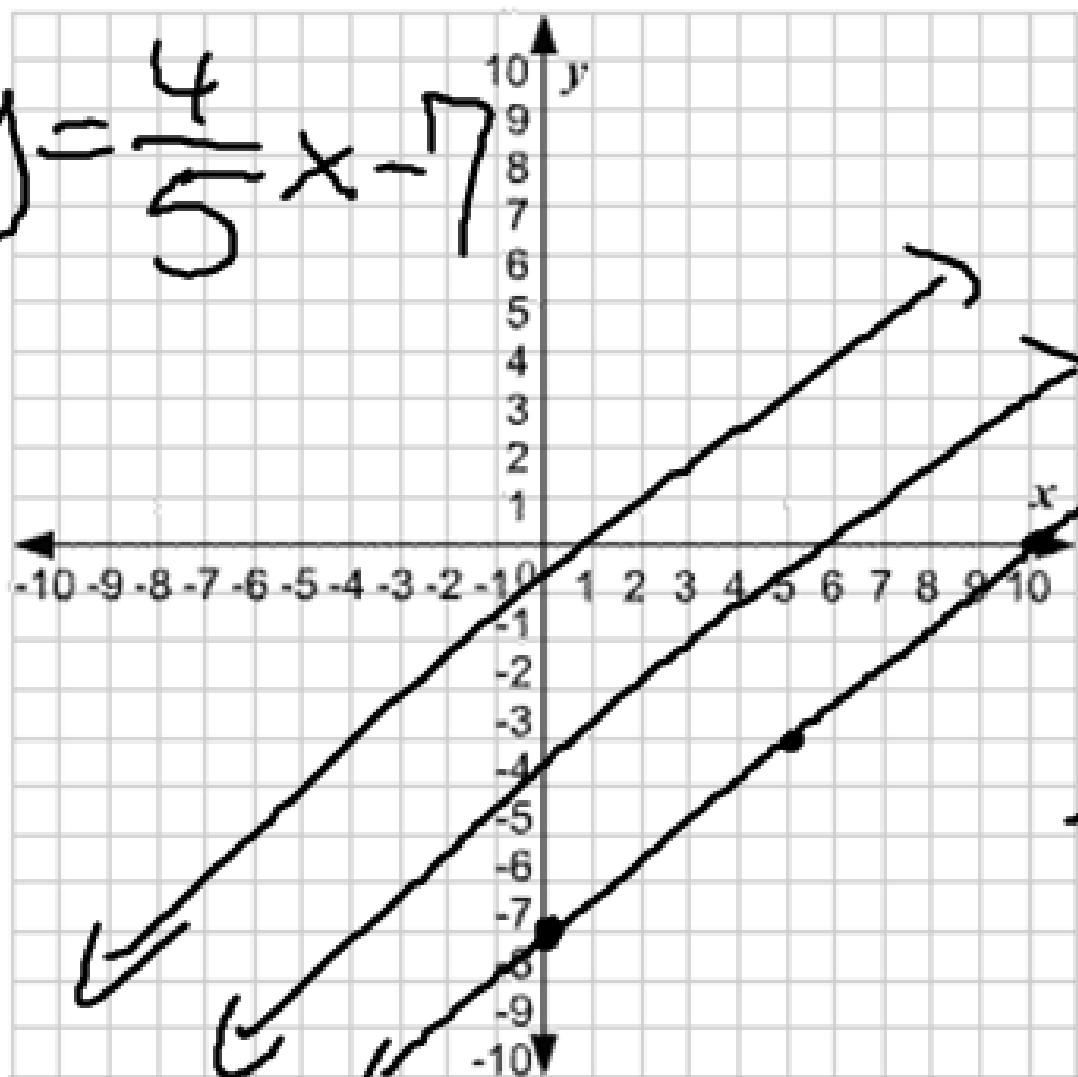
Graph the following equation.

$$y = \frac{4}{5}x - 7$$

$$\text{slope} = \frac{4}{5}$$

$$y\text{-int} = -7$$

$$y = \frac{4}{5}x - 7$$

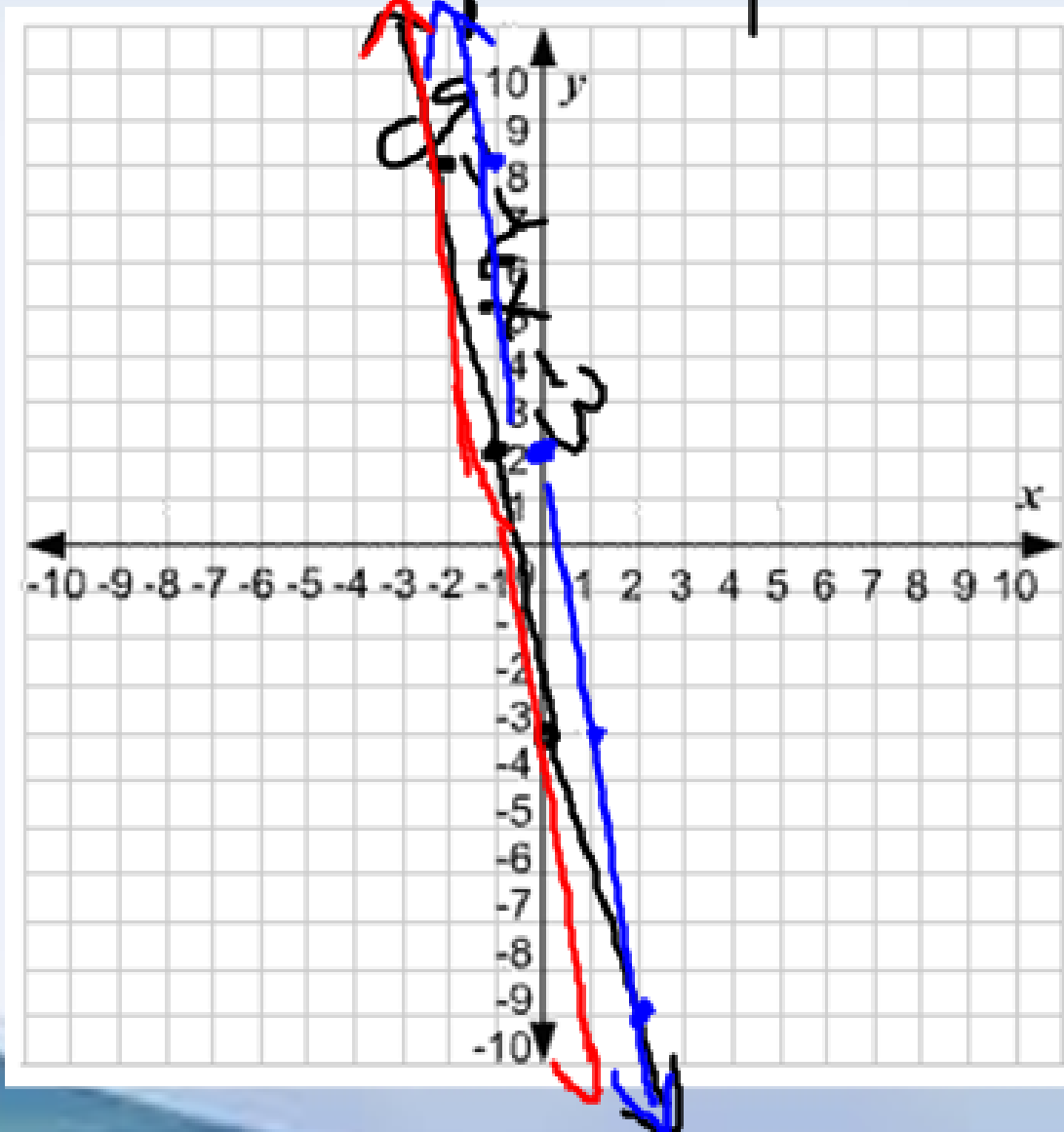


$$\parallel \Rightarrow y = \frac{4}{5}x + 2$$

$$\perp \Rightarrow y = \frac{5}{4}x - 7$$

equation $y = -6x - 3$

① slope: $-\frac{6}{1}$

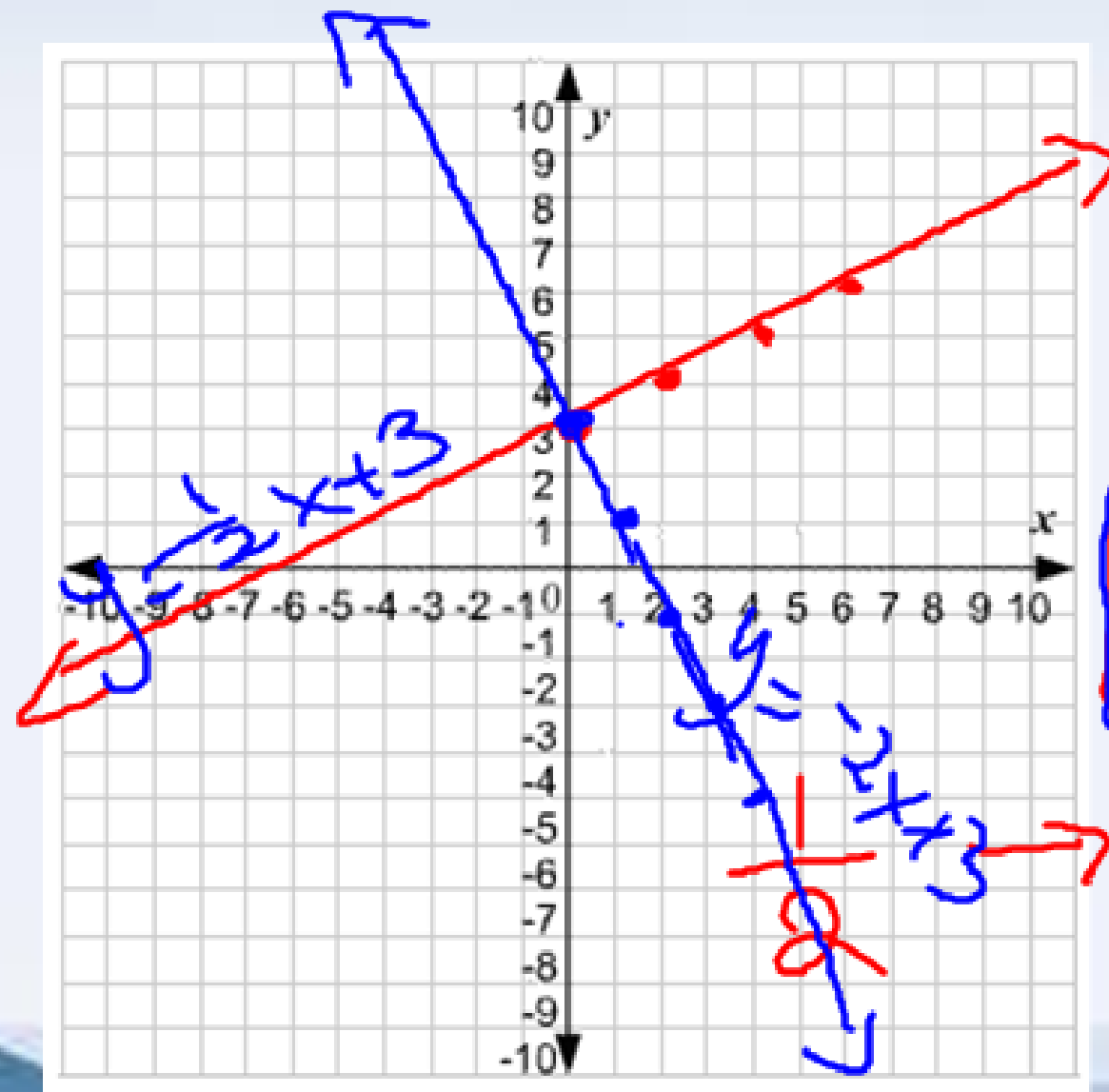


Next, write and graph the equation of a Parallel line:

$$y = -6x + 2$$

2

equation $y = \frac{1}{2}x + 3$

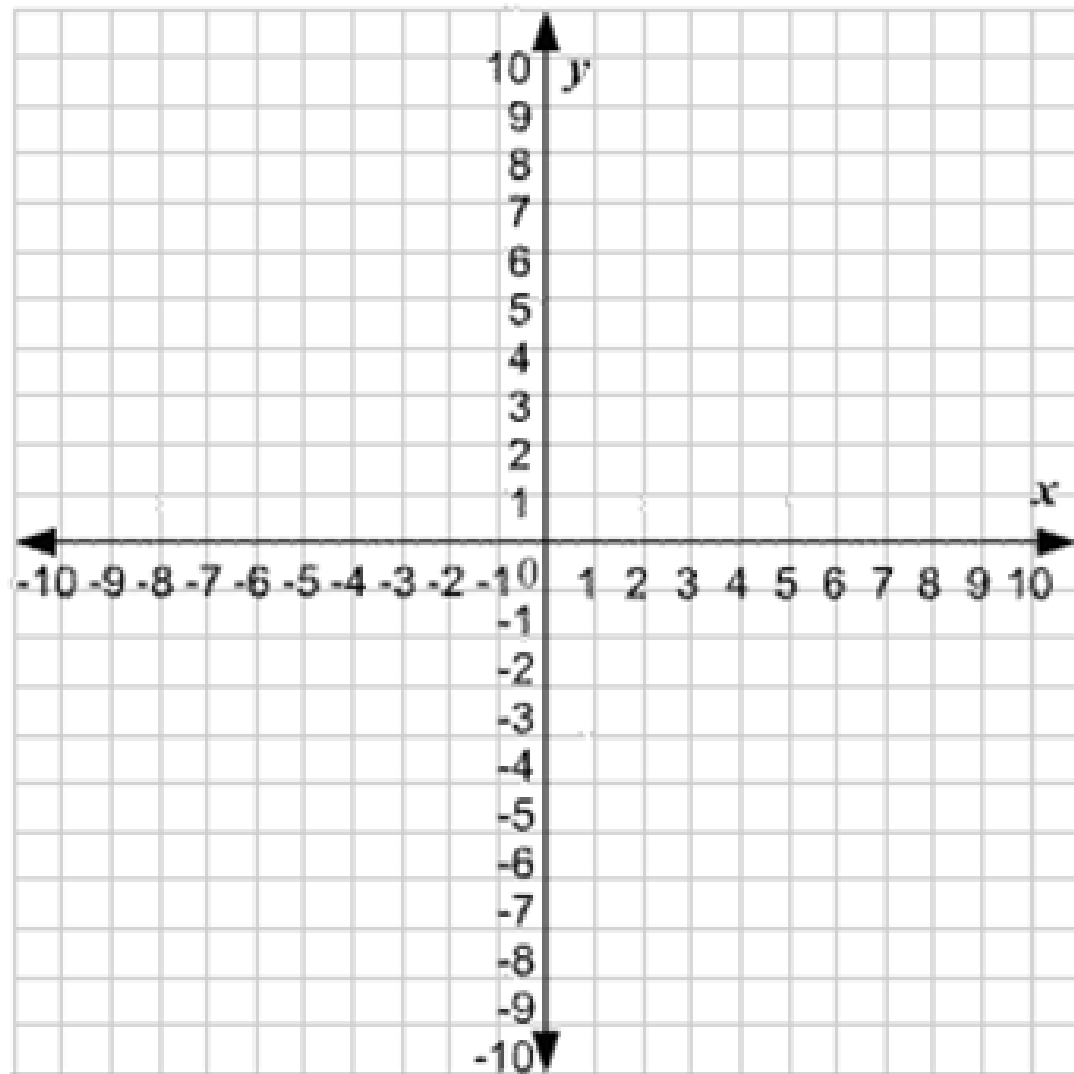


Next, write and graph the equation of a perpendicular line:

$$y = -2x + 3$$

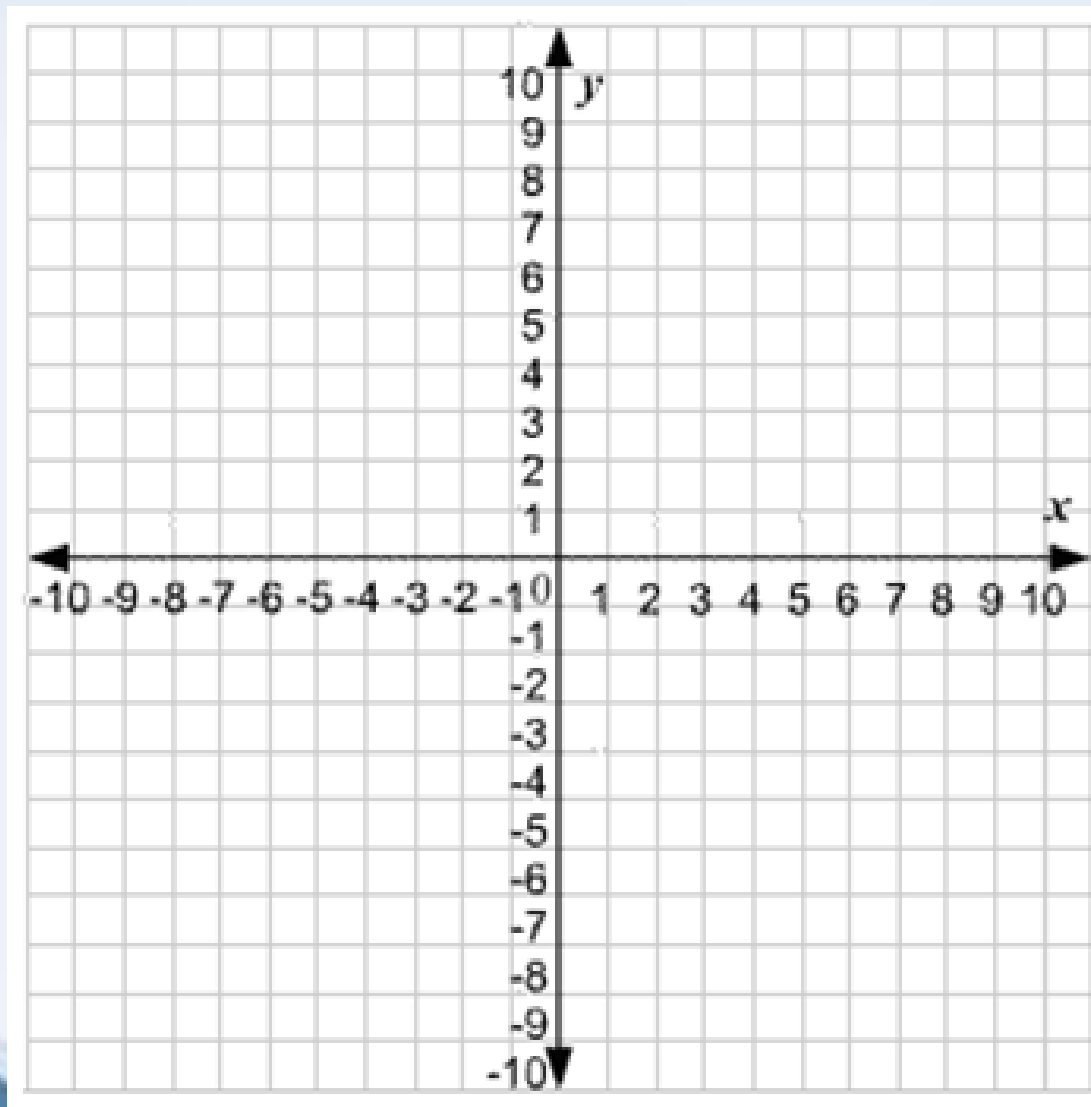
$$-\frac{2}{1} = -2$$

equation $y = 2x - 2$



Next, write and graph the equation of a Parallel line:

Next, write and graph the equation of a perpendicular line:



When done:

Grab a Computer from back

go to Google.com

Type in: khan academy graphing slope intercept form

Click on second link.