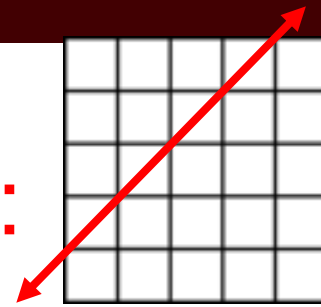
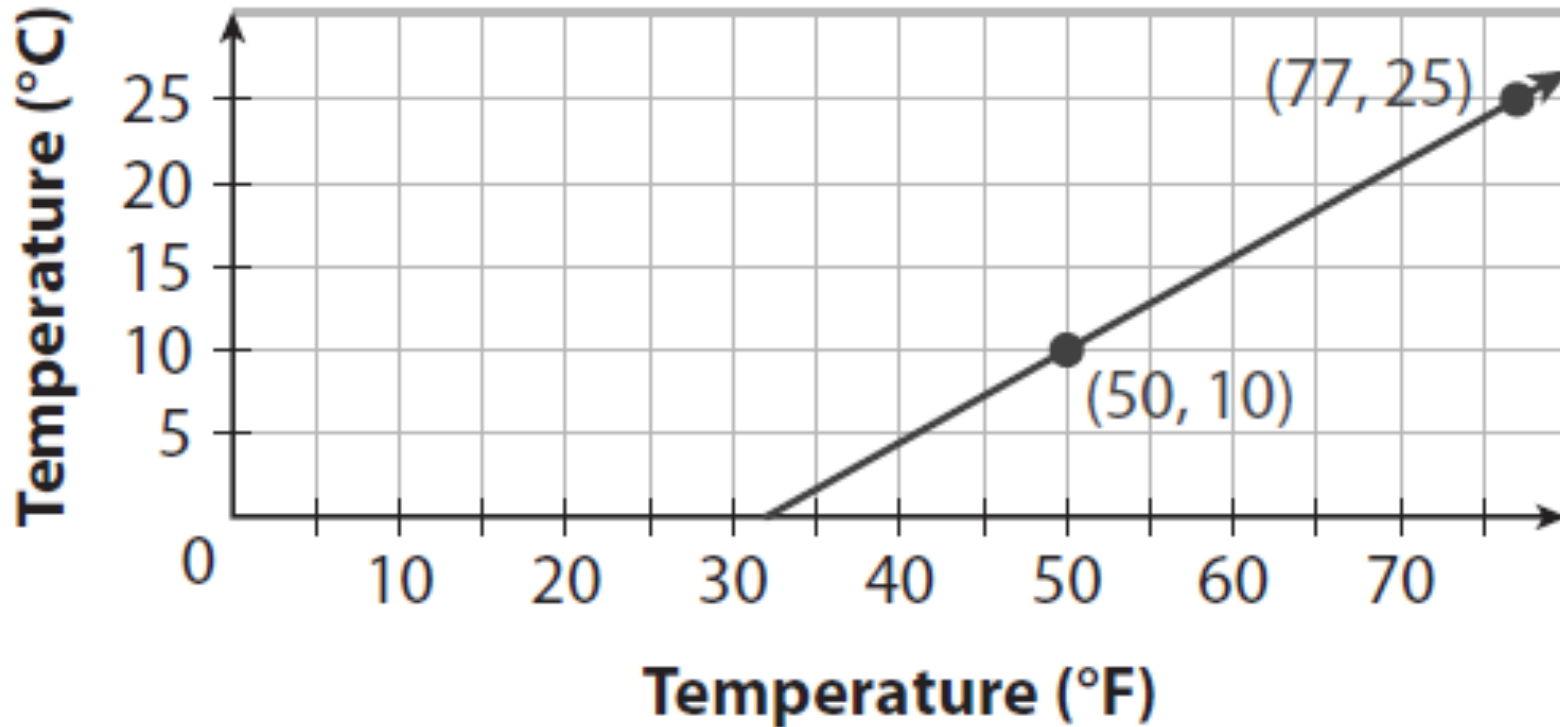


Created by Mr. Lischwe

Warmup 10/(Slope of this line:



1) Find and interpret the slope.



2) Explain why the date problem is correct.

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Slope-Intercept Form

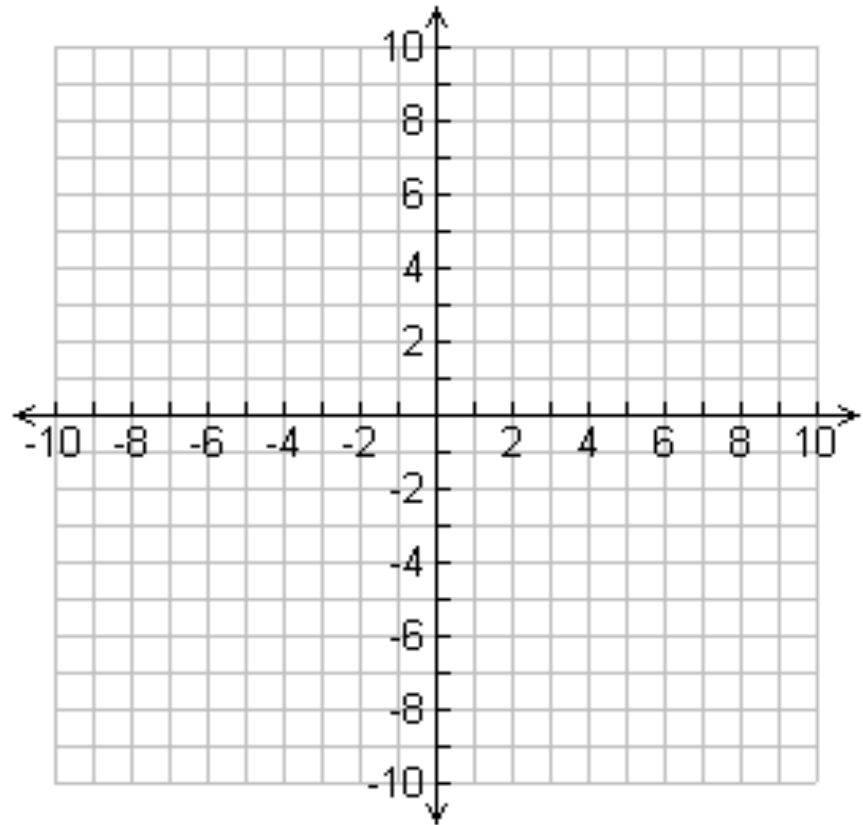
Objective:

- Be able to recognize and graph a linear equation in slope-intercept form

Can you fill in the table **REALLY FAST???**

- $y = 3x + 5$

x	y
0	
1	
2	
3	
4	

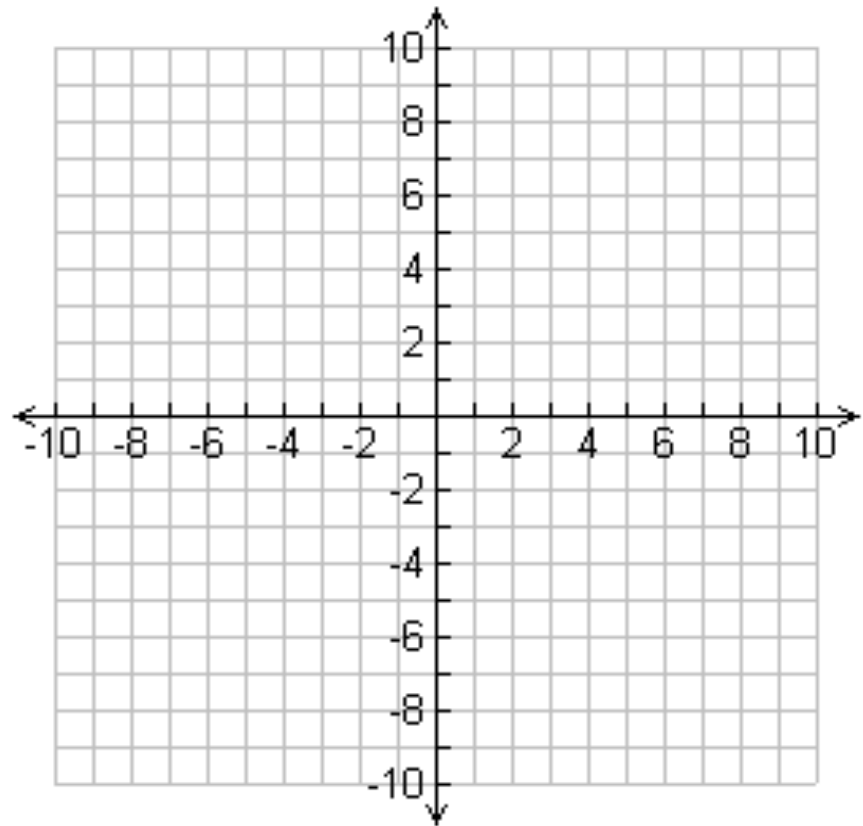


“Start with 5 dollars, gain 3 dollars per day”

Can you fill in the table **REALLY FAST???**

- $y = -2x + 10$

x	y
0	
1	
2	
3	
4	

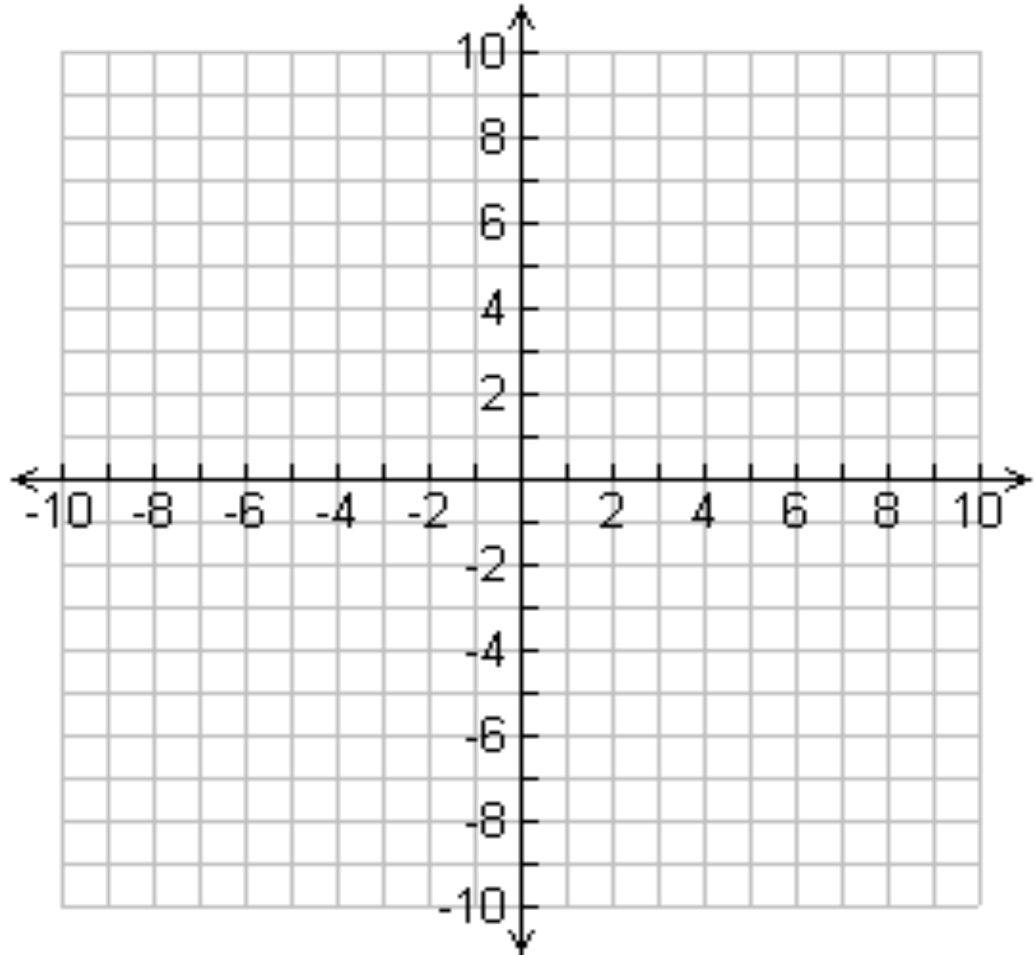


“Start with 10 dollars, **LOSE 2 dollars per day**”

Can you fill in the table **REALLY FAST???**

- $y = \frac{1}{3}x + 6$

x	y
0	
1	
2	
3	
4	



“Start with 6 dollars, gain 1/3 dollar per day”

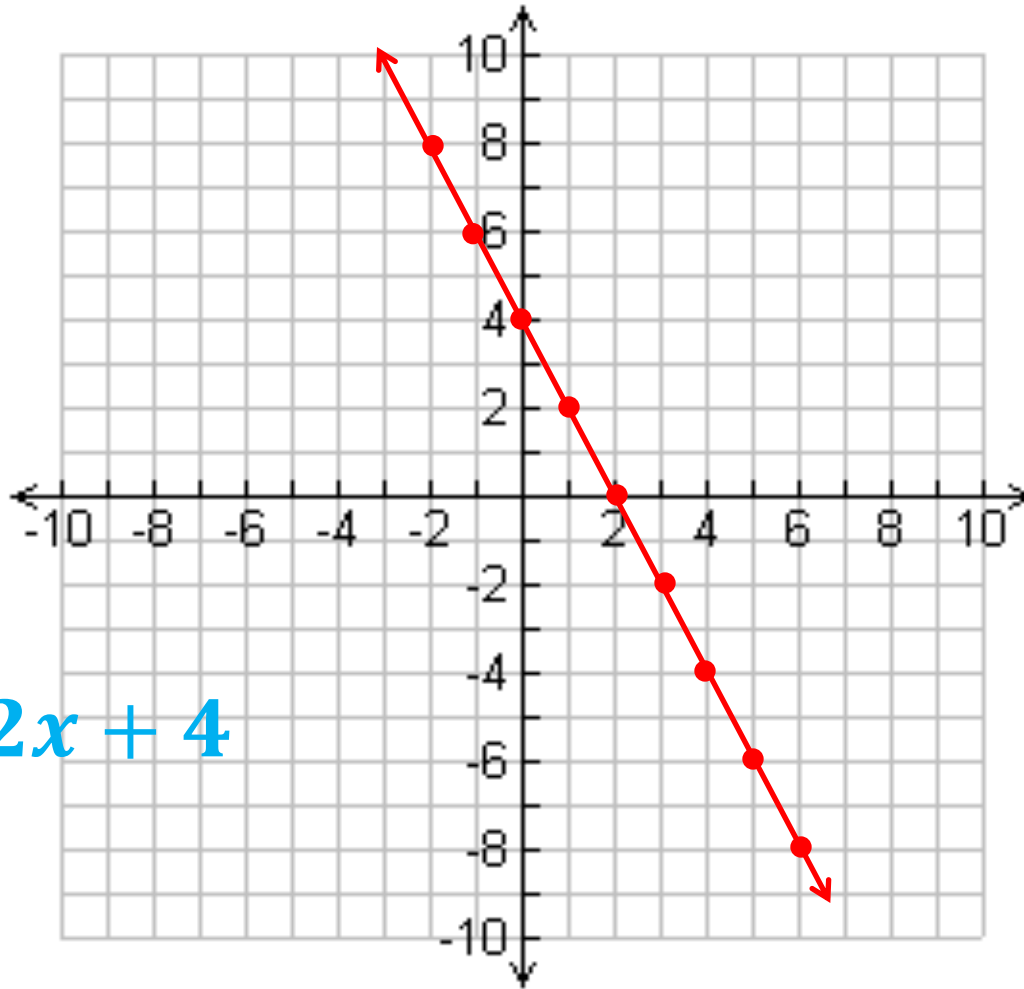
“Start with 6 dollars, gain 1 dollar every 3

Slope-Intercept Form

$$y = mx + b$$

- **“m” is the slope**
 - how much the graph increases or decreases for each “x”
- **“b” is the y-intercept**
 - **The value of y when x is zero (the “initial value”)**
 - Always on the y-axis
- (I’m not sure why they picked those letters. If you find out why you can share it with the class)

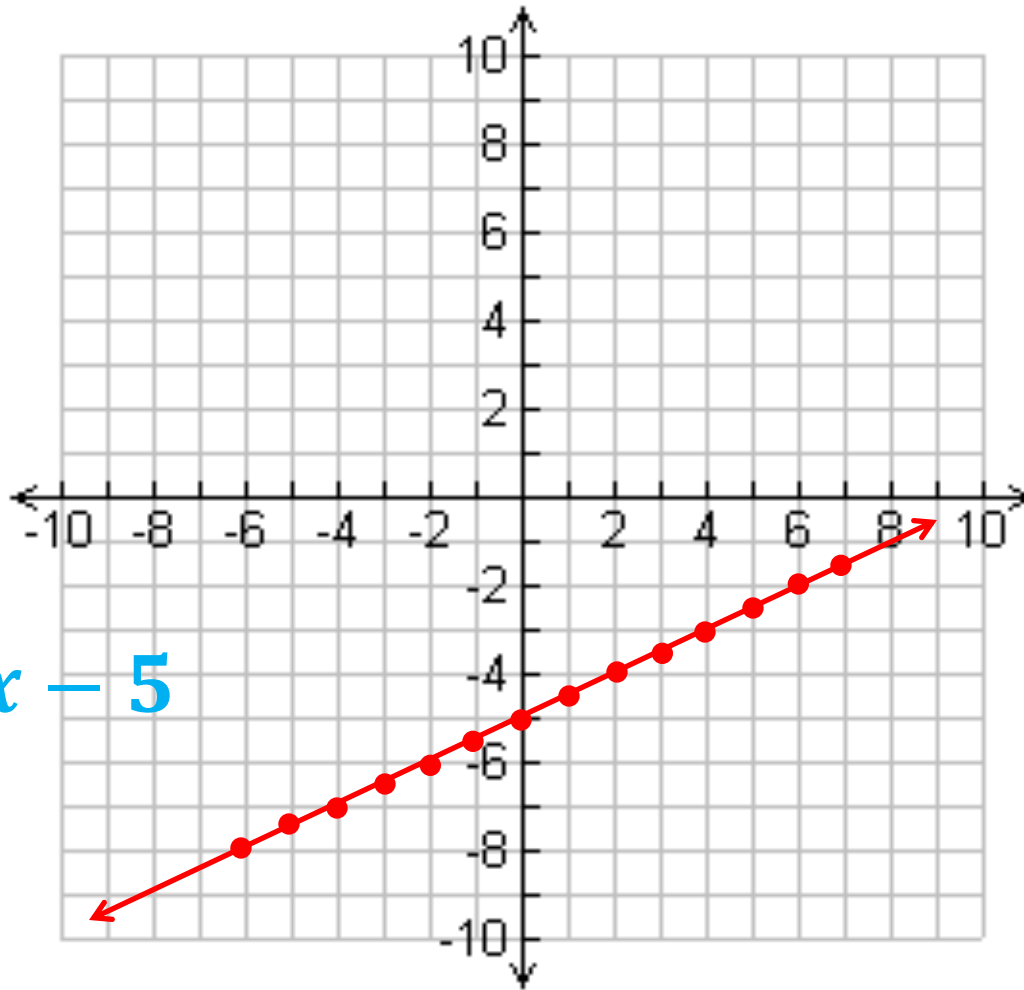
Write the equation:



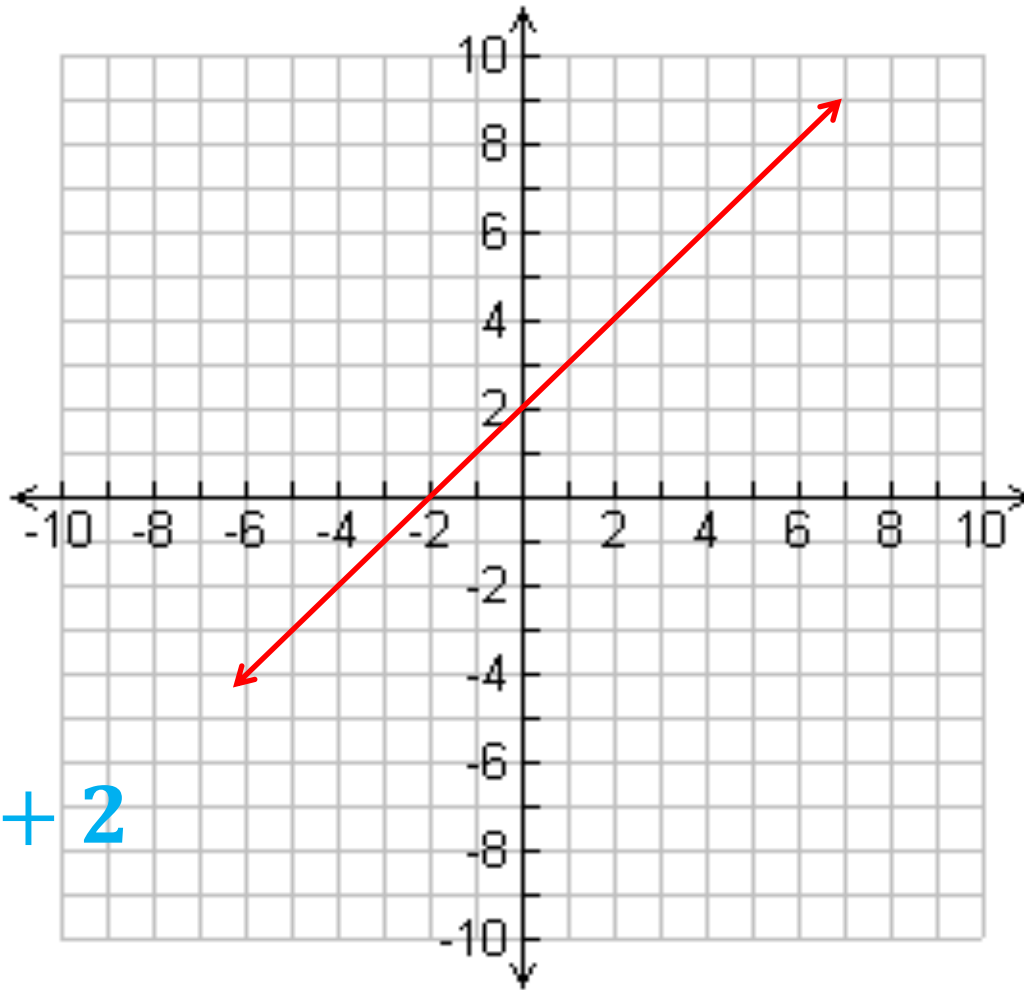
$$y = -2x + 4$$

Write the equation:

$$y = \frac{1}{2}x - 5$$

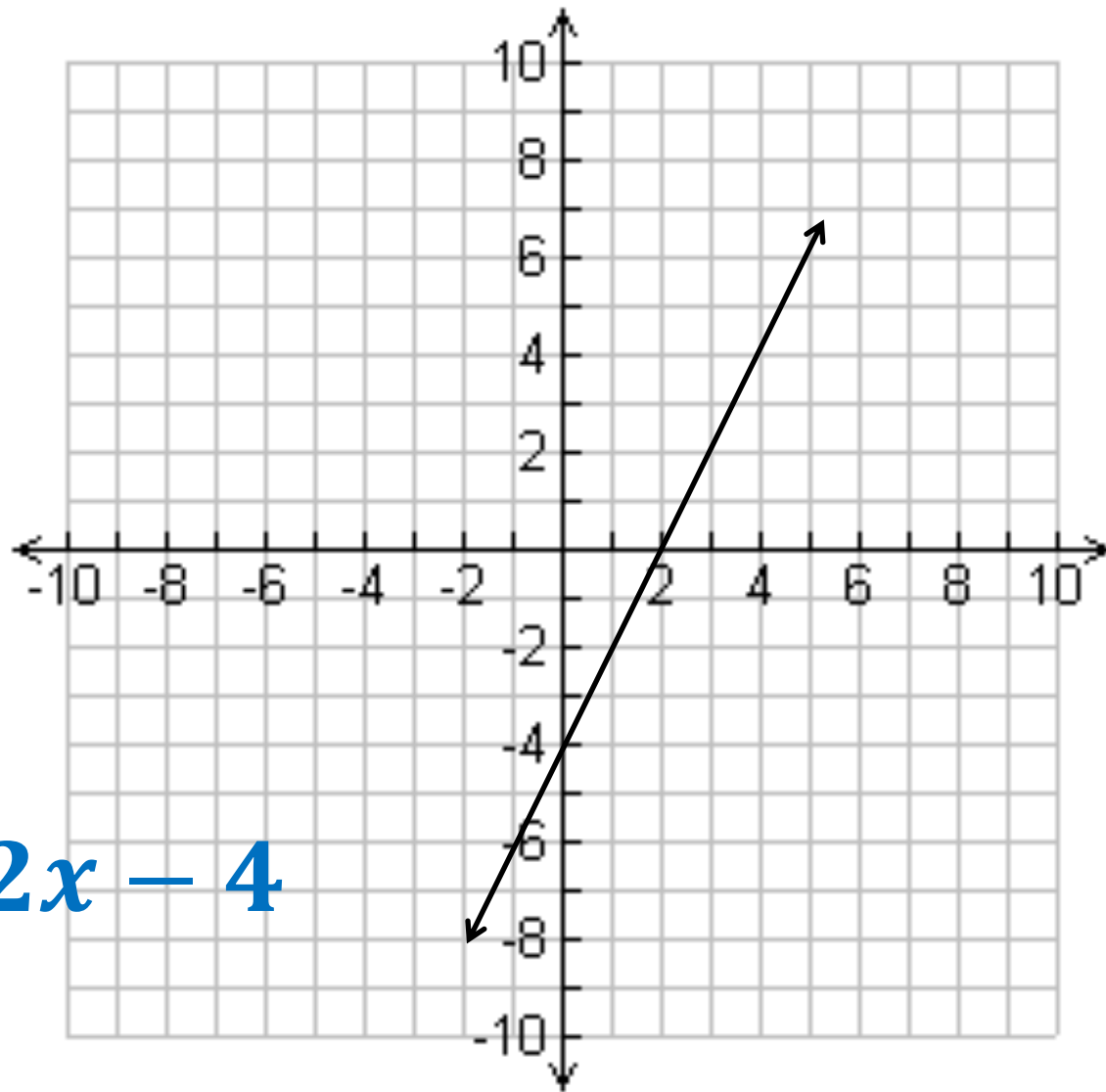


Write the equation:



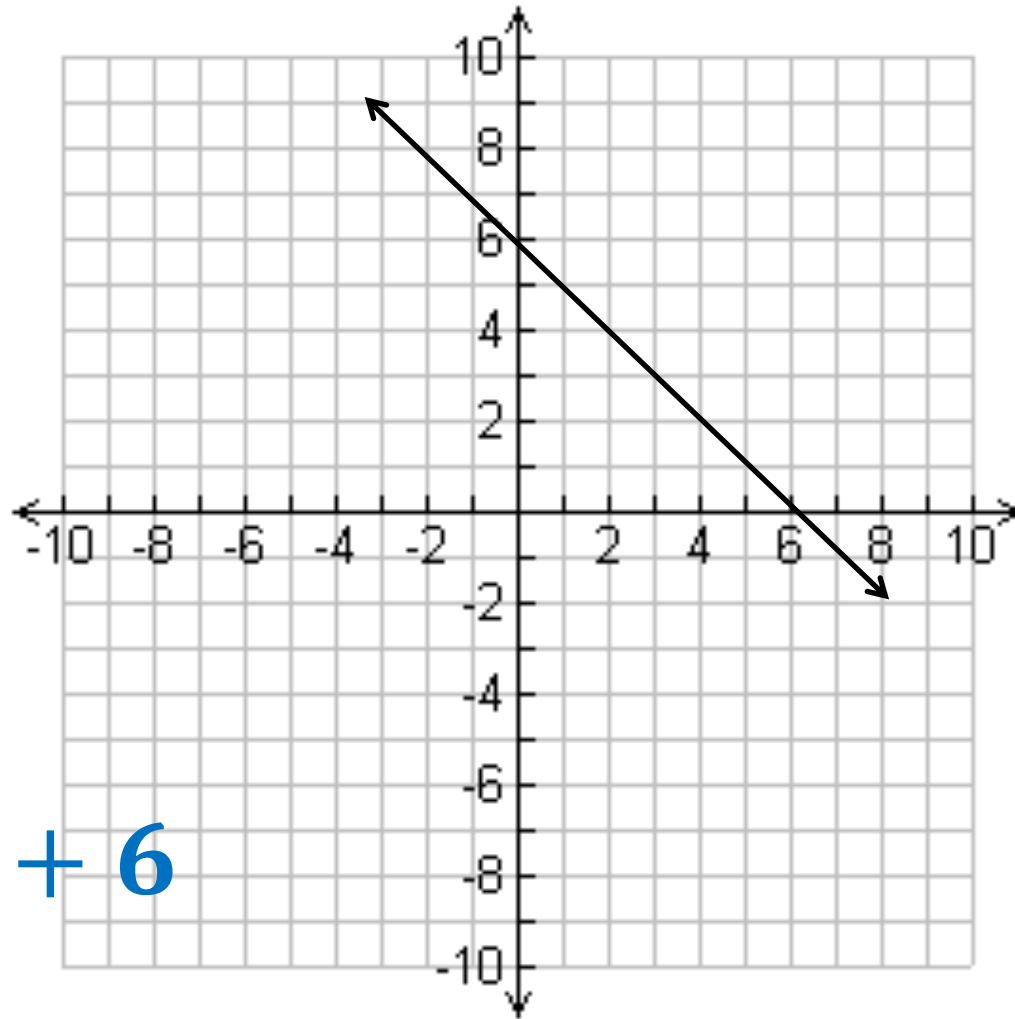
$$y = x + 2$$

Write the equation:



$$y = 2x - 4$$

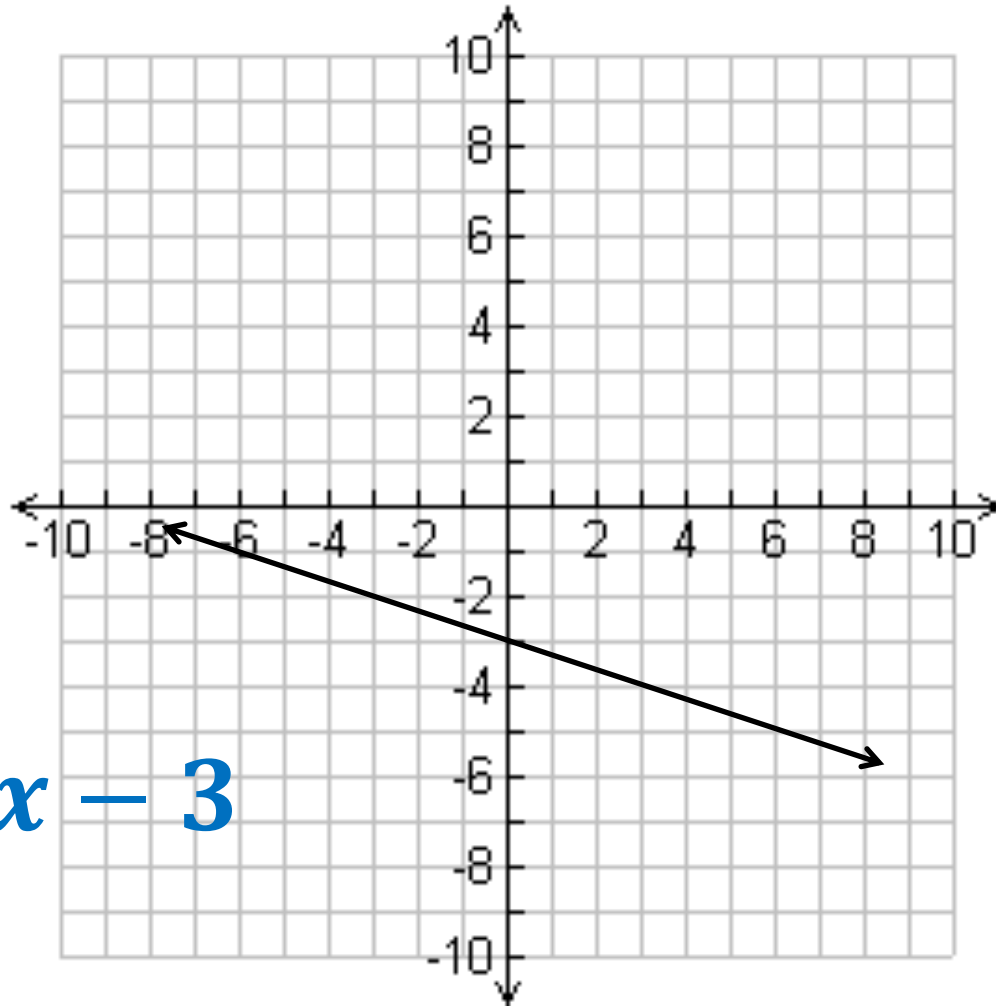
Draw the graph



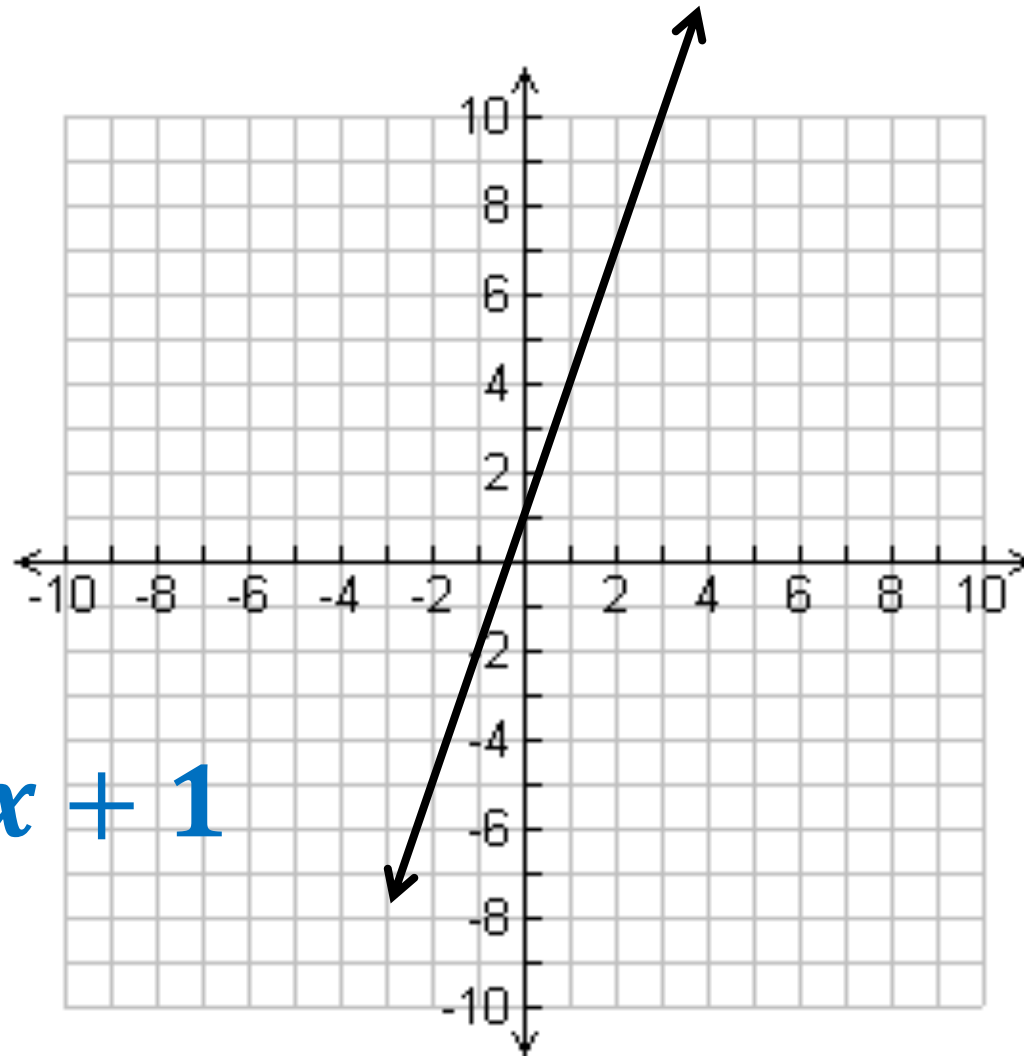
$$y = -x + 6$$

Draw the graph

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



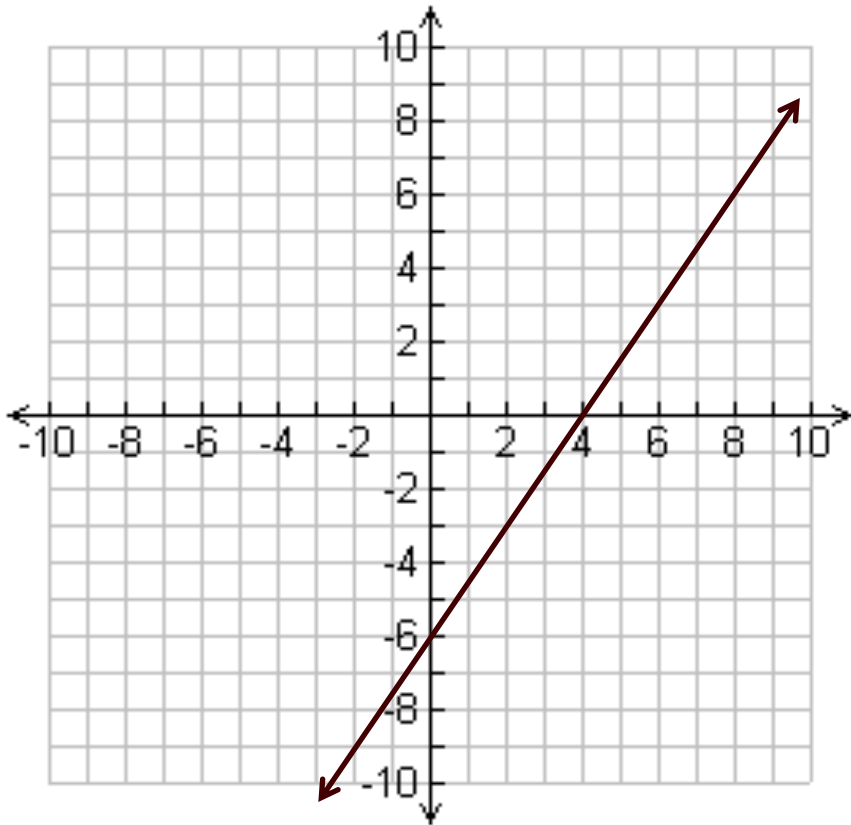
Draw the Graph



$$y = 3x + 1$$

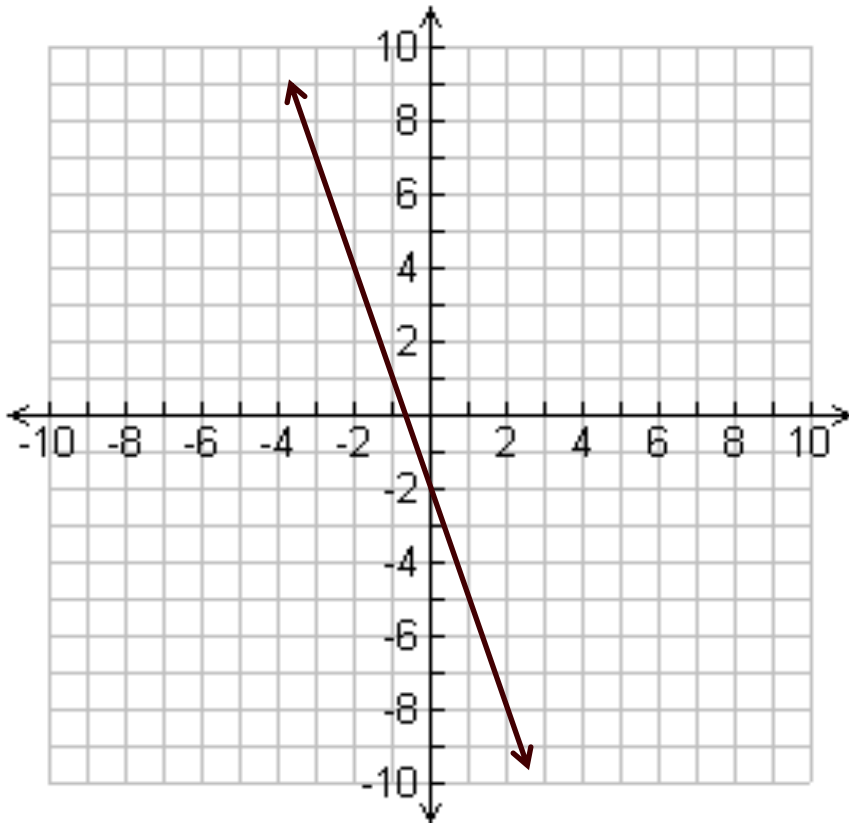
• Graph:

$$y = \frac{3}{2}x - 6$$



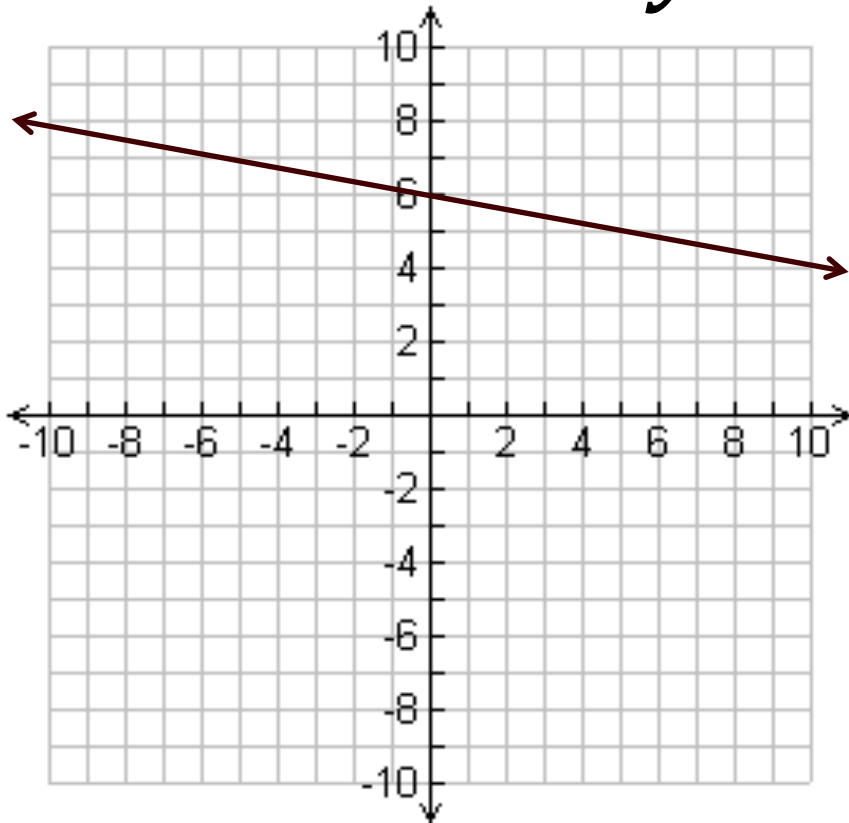
• Graph:

$$y = -3x - 2$$

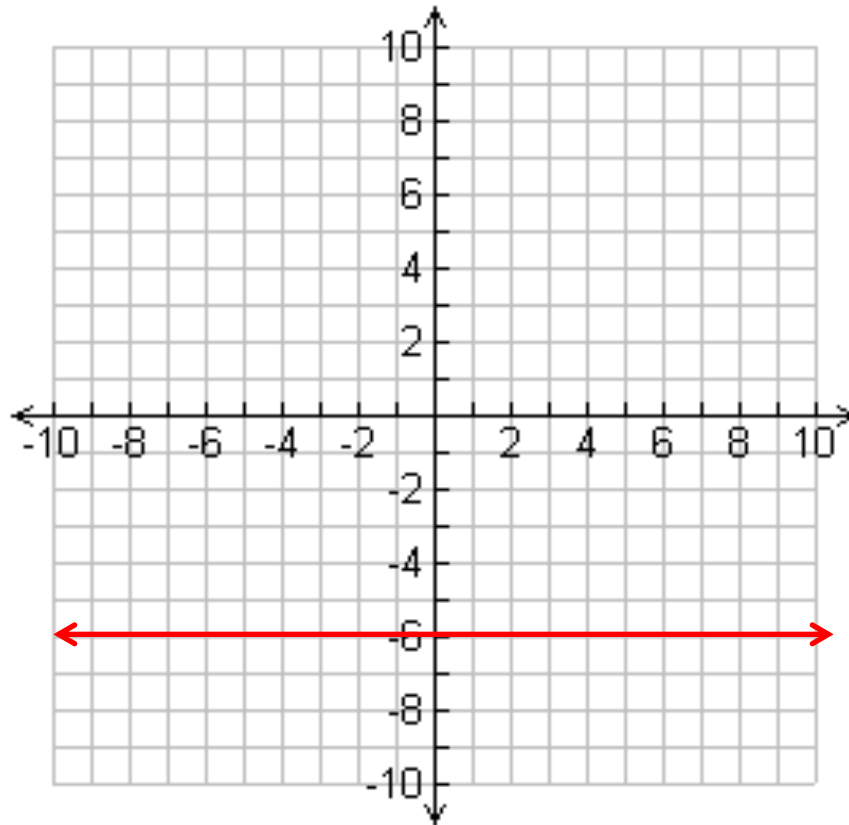


• Graph:

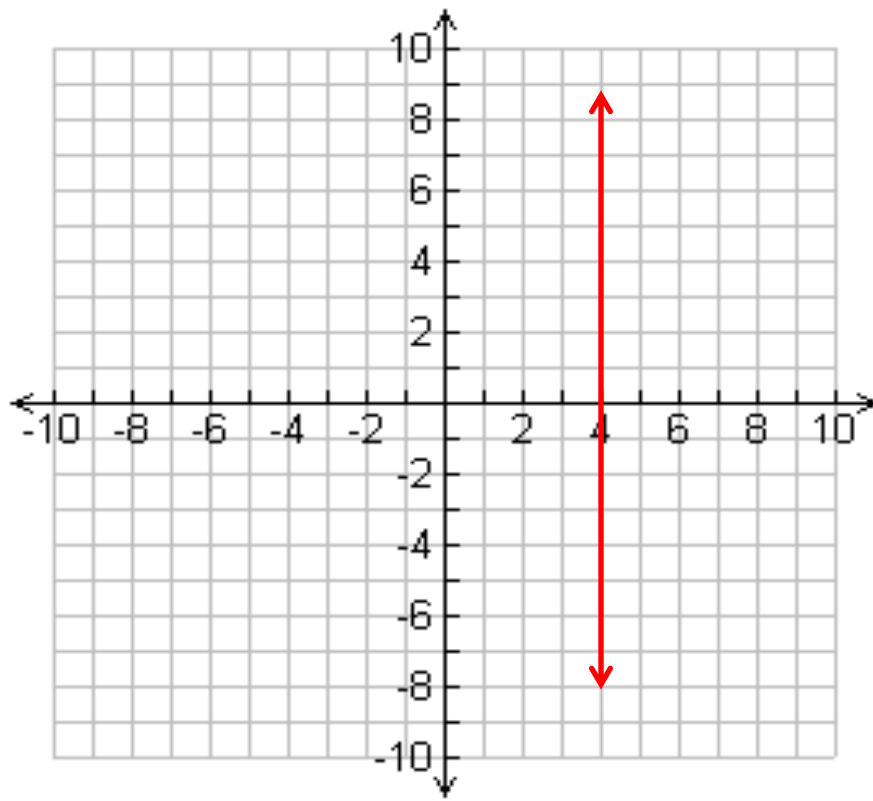
$$y = -\frac{1}{5}x + 6$$



What would the graph of $y = -6$ look like? Convince me.



What would the graph of $x = 4$ look like? Convince me.



COMPLETE YESTERDAY'S HOMEWORK

Classwork/Homework

- **Worksheet #1 – 16**