

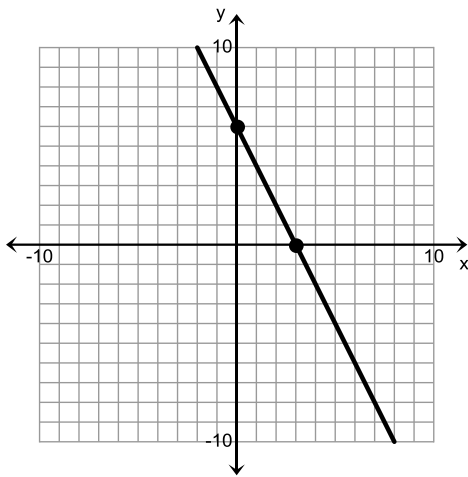
Writing the Equation of a Line from a Graph

Steps for Writing the Equation from the Graph

1. Find the slope, m , from the graph
2. Find the y -intercept, b , from the graph
3. Write the equation in slope-intercept form using the values you found for m and b

$$y = \boxed{m}x + \boxed{b}$$

Example



Find two points on the line. From these two points, find the slope.

$$m = -\frac{6}{3} = \boxed{-2}$$

From the graph, find the y -intercept.

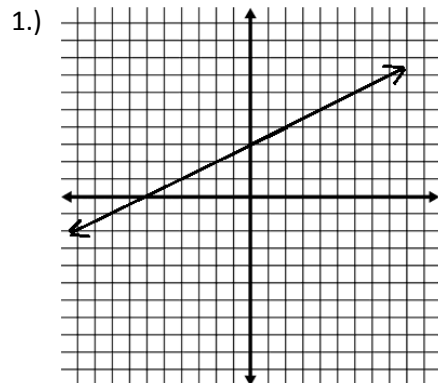
$$b = \boxed{6}$$

Using slope-intercept form, put in the values for m and b .

Answer:

$$y = -2x + 6$$

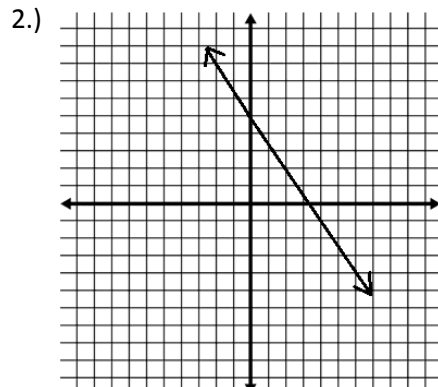
Try These



a.) What is the slope of the line?

b.) What is the y -intercept?

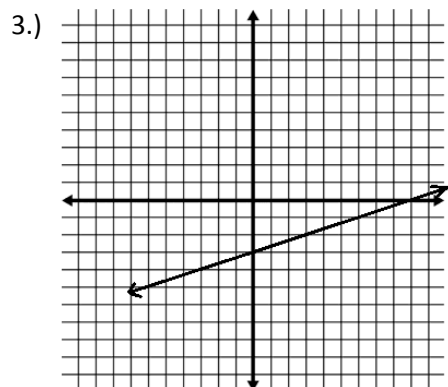
c.) Use your answers in a and b to write the equation of the line in slope-intercept form



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b.) What is the y -intercept?

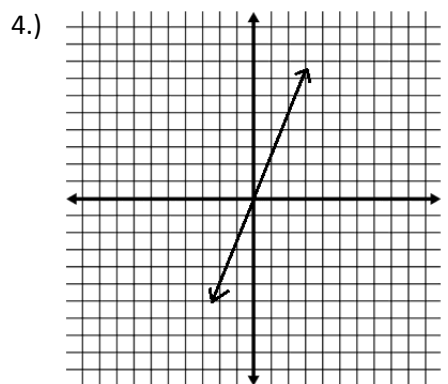
c.) Use your answers in a and b to write the equation of the line in slope-intercept form



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b.) What is the y -intercept?

c.) Use your answers in a and b to write the equation of the line in slope-intercept form

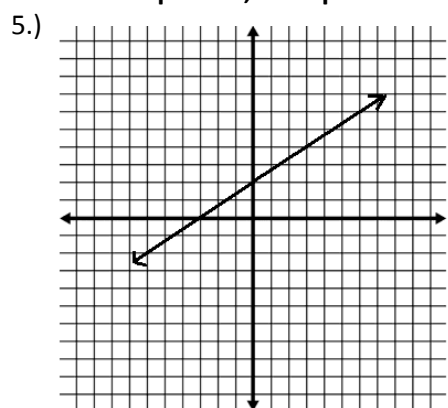


a.) What is the slope of the line?

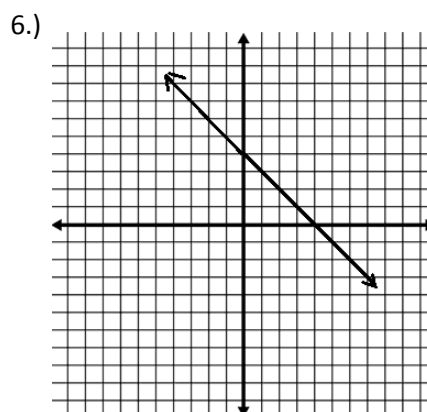
b.) What is the y -intercept?

c.) Use your answers in a and b to write the equation of the line in slope-intercept form

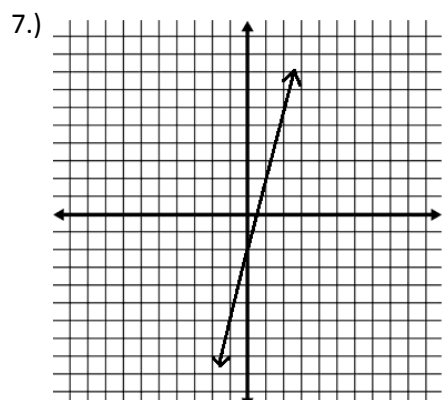
Write the equation, in slope-intercept form, of each line below.



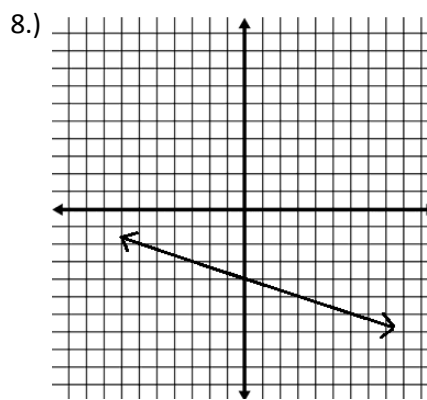
Equation: _____



Equation: _____



Equation: _____



Equation: _____