3.5 Graphs and Linear Relationships - Part B

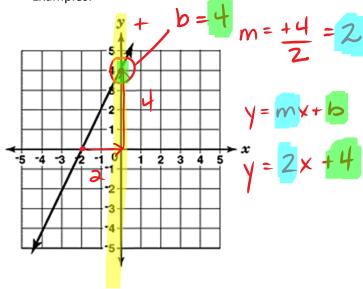
p. ____**8**{\}__

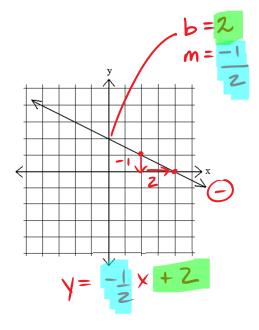
Using a graph, we can determine the relationship between two variables.

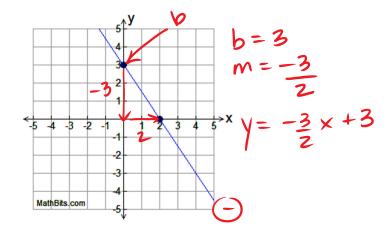
Method 1: Read the graph.

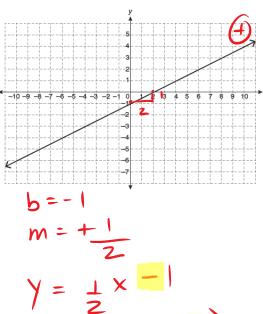
- 1. Find the slope of the line from the graph.
 - Lines that go up to the right are positive
 - Lines that go down to the right are <u>negative</u>.
 - Use the formula: M = rise
- 2. Find the y-intercept
 - Where does the line cross the Y-AXIS

Examples:





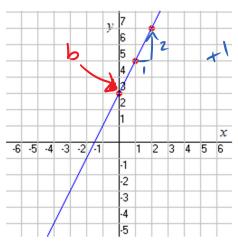




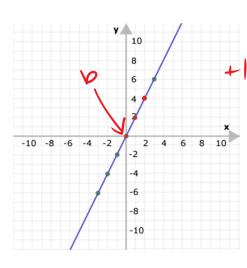
Method 2: Create a Table of Values

- 1. Using the graph create a table of values.
- 2. Use the table of values to find slope (m) and the y-intercept (b).
- 3. Write the equation in slope-intercept form (y = mx + b)

Examples:



$$y = mx + b$$
 $y = mx + b$
 $y = 2(0) + 1$
 $y = 2x + 3$
 $y = 2x + 3$



$$\frac{x}{y}$$

$$y = mx + b$$

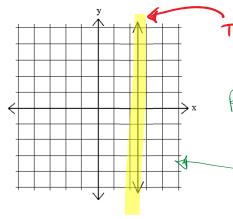
$$y = 2x + 0$$

$$y = 2x$$

$$y = 2x$$

$$y = 2x$$

$$y = 2x$$



THIS LINE HITS THE X-AXIS@2.5

KEMEMBER: