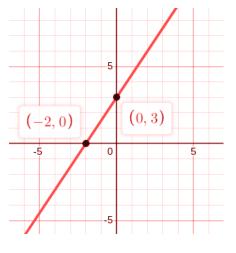
Graphing Linear Equations

Graphing Equations: y = mx + b

Steps for graphing an equation using slope and y-intercept:

- Find the y-intercept which is b in y=mx+b equation and is located on the y-axis
- Plot the y-intercept : (x,y) (0,0) Ex: (0,1)
- Find the slope which is m in y=mx+b
- Make a single step using rise over run from the slope Ex: 3/2 is 3 up and 2 right
- Using the slope, find more points, connect the points and make a line

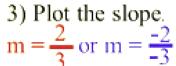


Graph the following linear equation using slope

Find the slope and y-intercept.

$$m = \frac{2}{3}$$
 $b = -1$

Plot the y-intercept.



4) Draw line through points.

$$Y = \frac{m}{x} + \frac{b}{b} \Rightarrow y = \frac{2}{3}x - \frac{1}{3}$$

In this photo you can see our slope and y-intercept Our slope is 2/3 and y-intercept is -1

We are going to plot the y-intercept first which is (0,-1)Then we are going to use slope to find points

To find points we need to go 2 up and 3 to the right From the point (0,-1), go 2 up and 3 to right Lastly, draw a line to connect the points