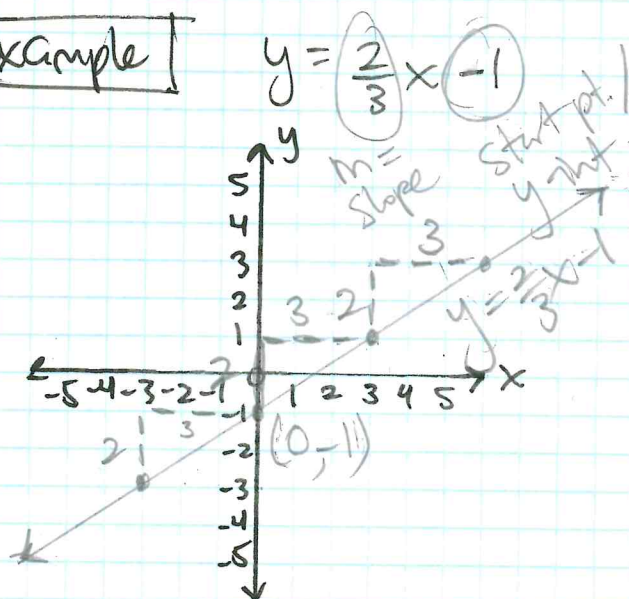


Toolkit #10: Graphing with slope-intercept ($y = mx + b$) 19.

example



① Plot 1st point $\rightarrow$ y-intercept
use your "b" value

ex: -1 is $(0, -1)$

② Apply the slope ("rise over run") use your "m" value.

ex: $\frac{2}{3}$ is $\frac{\text{up } 2}{\text{over } 3}$

③ Apply slope in both directions until you form a line.

④ Draw line w/a straight edge

⑤ Write rule on line and label y-intercept

What do you do if your "m" value is ... ?

A whole Number

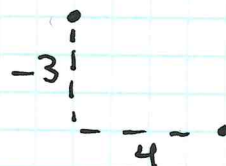
ex. $y = 2x + 1$

$m = \frac{2}{1} \leftarrow \frac{\text{up } 2}{\text{over } 1}$



A Negative Number

ex. $m = -\frac{3}{4} \leftarrow \frac{\text{down } 3}{\text{over } 4}$



Not there!

ex. $y = x$ $m = \frac{1}{1}$

