Graphing $y = mx + b$

slope - intercept

Place is the equation in slope-intercept form.

Graph the y-intercept.

Using rise over run, find the 2nd point.

Draw a line connecting the points.

Graphing $y = \underset{\uparrow}{m}x + \underset{\uparrow}{b}$

slope - intercept

Is y isolated?
Yes → Keep going
no → Use another method.

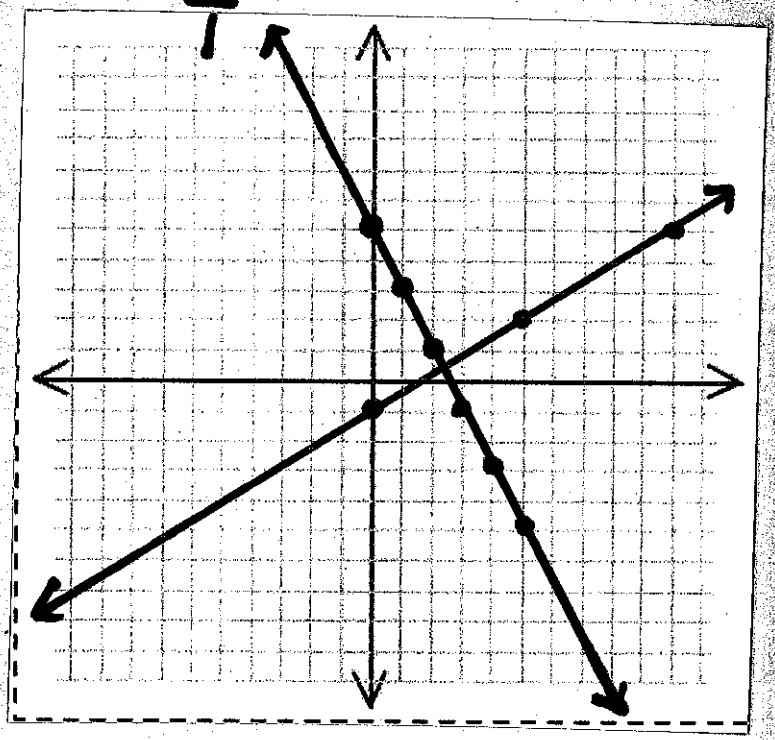
the constant is graphed on the y-axis

go up if slope is +, go down if slope is −, always go right!

use a ruler! edge to edge!

$y = -2x + 5$

$-\frac{2}{1}$



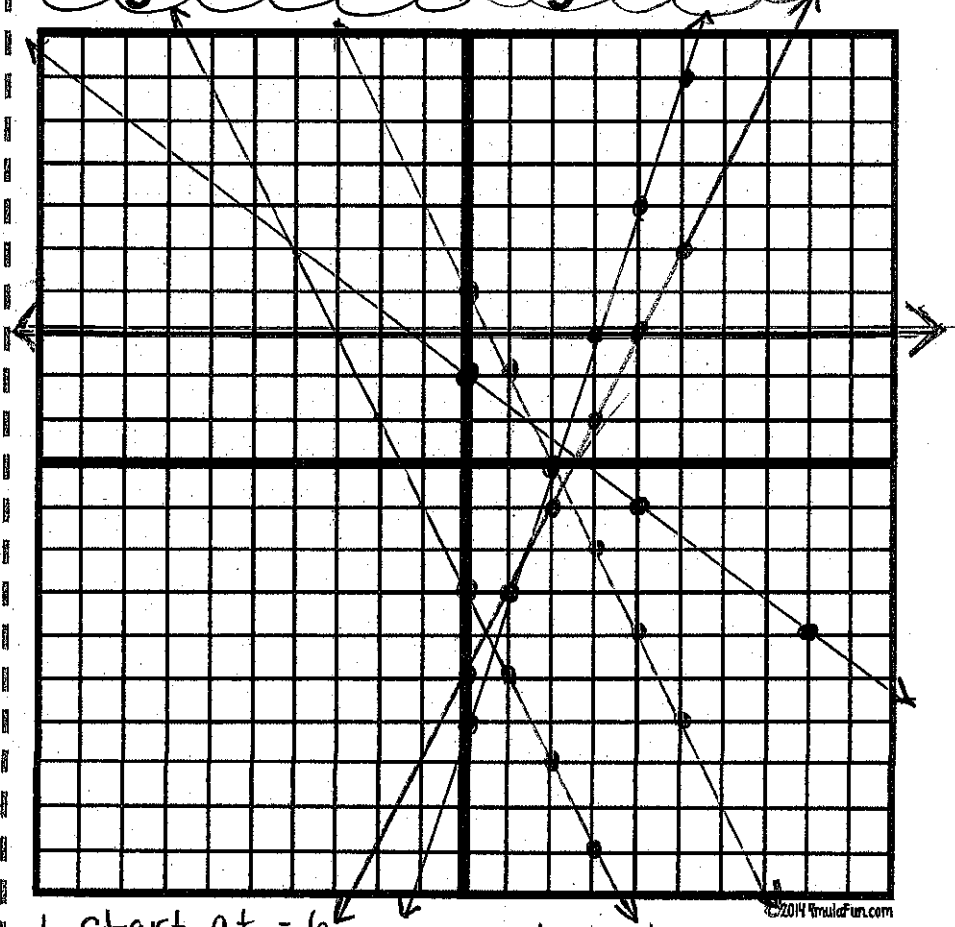
$y = \frac{3}{5}x - 1$

Graphing Slope-Intercept (y isolated) $y=mx+b$

Graphing Equations with Slope-Intercept

Read each of the equations below. Graph the linear function using slope-intercept using a different color for each line.. In the space below, explain how you created each graph. Be specific.

1. $y = 3x - 6$
2. $y = -2x - 3$
3. $y = -3/4x + 2$
4. $y = 3$
5. $y - 3 = 1 - 2x$ $y = 4 - 2x$
6. $y = 2x - 5$



1. Start at -6
   go up 3, right 1
2. Start at -3
   go down 2, right 1
4. Start at 3.
   go up 0, right 1
5. Simplify. Start at 4
   go down 2, right 1