

Graphing a line

What is the equation of a linear line?

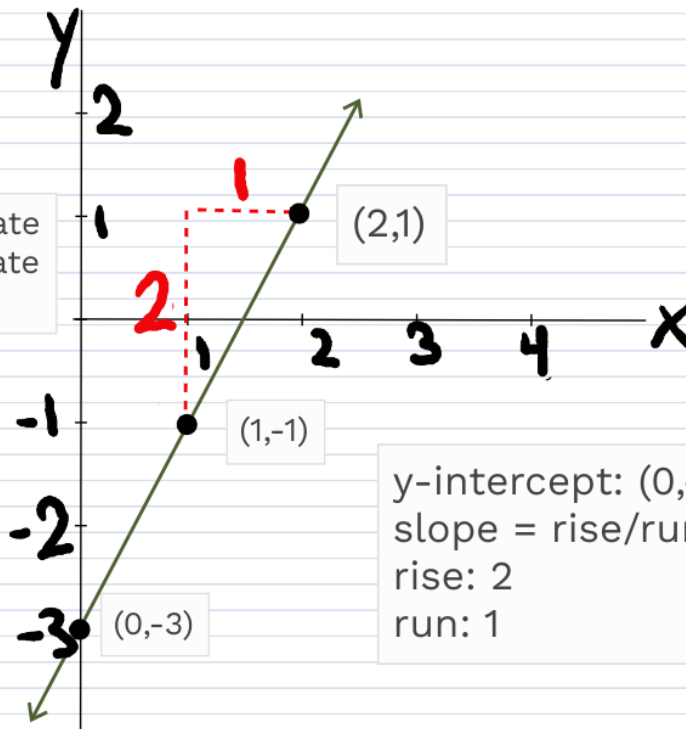
$$y = mx + b$$

slope

y-intercept (0,b)

x is the input and y is the output
e.g. $y = 2x - 3$
Evaluate y at $x = 5$
 $y = 2(5) - 3 = 10 - 3 = 7$
This would be coordinate (5, 7)

x is the x-coordinate
y is the y-coordinate
(x, y)



y-intercept: (0,-3)
slope = rise/run
rise: 2
run: 1

y-coordinate

x-coordinate

$$y = 2x - 3$$

slope

y-intercept