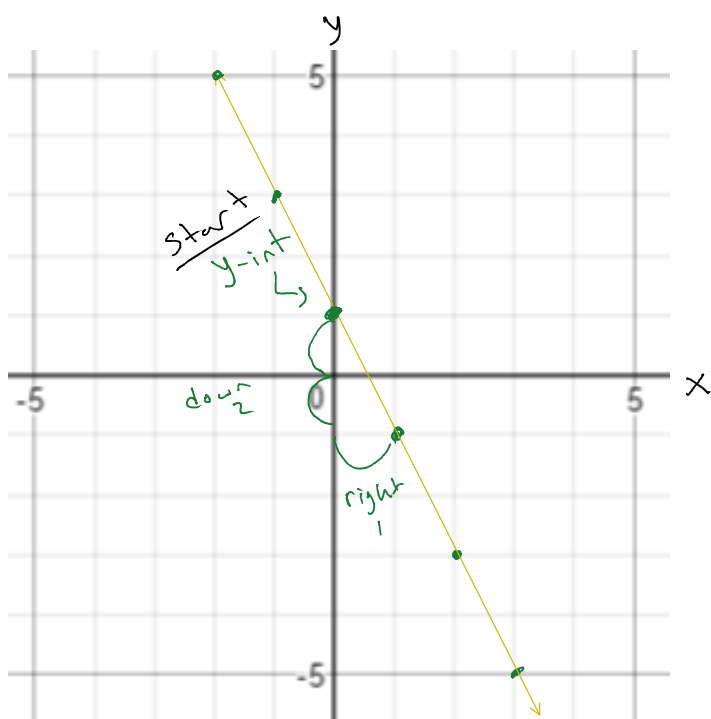
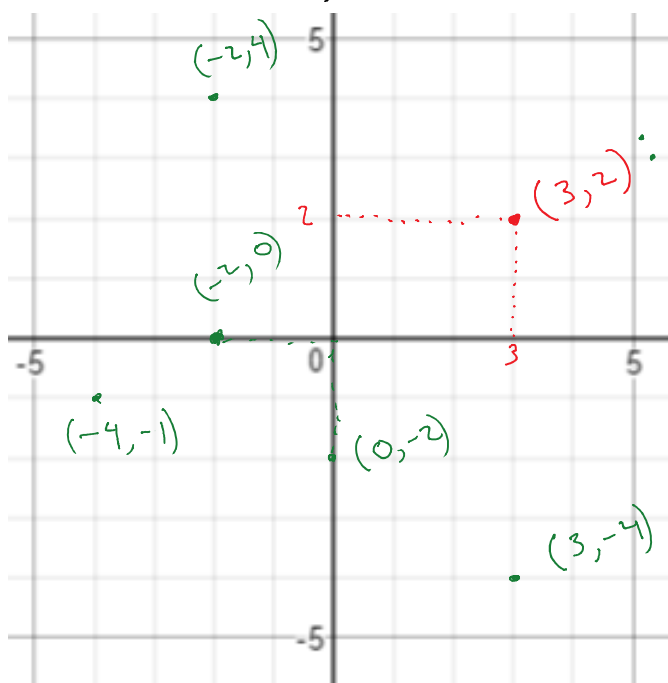


y-axis: for your dependent variable

Coordinate in alphabetical order (x, y)

x-axis: for your independent variable



graphing a line

$$y = -2x + 1$$

↑
Slope = $-\frac{2}{1}$

↑ y intercept = 1
down 2
right 1

Slope-intercept
 $y = mx + b$
↑ ↑
Slope y-int

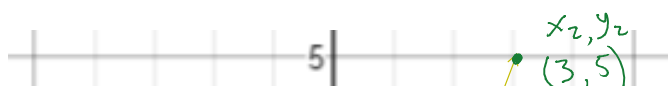
• start @ y-int

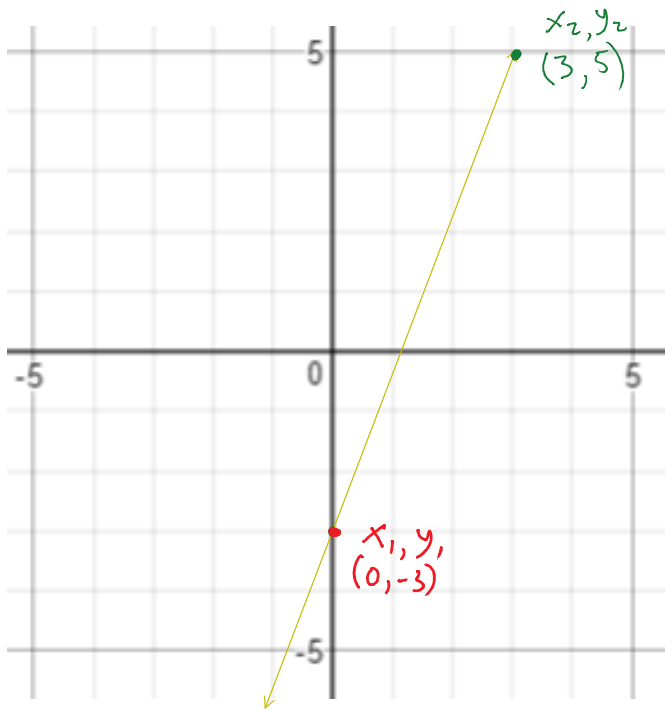
• Slope tells you how to move

$$\text{Slope} = \frac{A}{B}$$

if A positive then move up
else move down
if B positive then move right
else move left

write the equation of the line





write the equation of the line

Slope: Pick two points on the graph

$$\text{Slope} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{5 - (-3)}{3 - 0} = \frac{8}{3}$$

$$m = \frac{8}{3}$$

y-int: Find the place where the line crosses the y-axis

This is at $y = -3$
 $b = -3$

Put it all together

$$y = mx + b$$

$$\boxed{y = \frac{8}{3}x - 3}$$

New

CH 7-1 Pg: 349

Homework Q: 1-10

Homework: Chapter 6.2 Pg: 287 Q: 2,3,4,12
Chapter 6.3 Pg: 301 Q: 1,2,3,4,6,8

HW: Pg 311, CH 6.4

Q: 1-7, 11

All your
homework

Bathroom