## **Review of Slope:**

March 1/16

To find the slope of a line by looking at a graph :

- 1. Find the **Rise**(up or down)
- 2. Find the Run(right)

**3.** Find Slope  $\mathbf{m} = \frac{-6}{-7} = \frac{-3}{2}$ 



Always put in LOWEST TERMS!

4. Lines with positive slopes go up + b

Lines with negative slopes go  $\frac{d_{0WN}}{d_{0WN}}$ 

## **Finding the Equation of a Line**

\*Just like how each person has a unique name, so do lines!



\*Each equation has two important parts: -4

- 1. Slope (m)
- 2. y-intercept/starting point (b)



Ex. 1. For each equation state:  
\* the slope 
$$y = mx + b$$
  
\* y-intercept(starting point)  
a)  $y = 4x + 1$   
 $b = 1$   
b)  $y = -9x$   
 $c) y = -9x$   
 $m = -9$   
 $b = 0$   
c)  $y = -2x - 3$   
 $m = -2$   
 $7$   
 $b = -3$   
d)  $y = 6x$   
 $m = 6$   
 $b = 0$ 

## **Steps to find the equation of a line:**

- **1.** Find the slope(m)
- **2.** Find the y-intercept(b) -2
- Plug the values for m and b into the equation, y = mx + b

Y=3x-2



Ex. 2. Find the equation of the lines:

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## Homework:

Handout: 1. Investigate Slope and y-intercept

2. Finding Slope from a Graph
-you need to find the equations of lines #1, 2, 3, 4, 9, 14