Name\_\_\_\_\_

UNIT 3

Date\_\_\_\_\_

LESSON 3

Do Now: Check homework answers and then we are going to watch a video!

https://www.youtube.com/watch?v=avS6C6\_kvXM

## AIM: Graphing lines using the SLOPE-INTERCEPT method

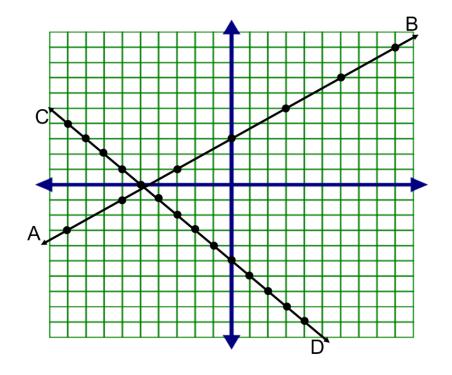
Lines have either a positive slope, a negative, a zero slope, or no slope.

The incline or steepness of a line is also called the\_\_\_\_\_\_. It's the change in the

\_\_\_\_\_ distance over the change in the \_\_\_\_\_\_ distance.

1. Find the slope of AB:

2. Find the slope of CD:



- 3. Given: y = -x + 6 and y = 2x + 3
  - a. Using your calculator graph both equations.
  - b. What do you notice about these graphs?

**Rule:** The equation of a line is represented by\_\_\_\_\_\_ m = \_\_\_\_\_

4. What is the slope and y – intercept of the following lines?

a. y = 2x - 5b. y = -3x + 2c. y = 7xd.  $y = \frac{1}{2}x - 1$ 

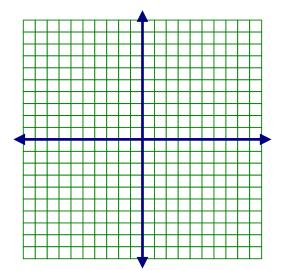
b = \_\_\_\_\_

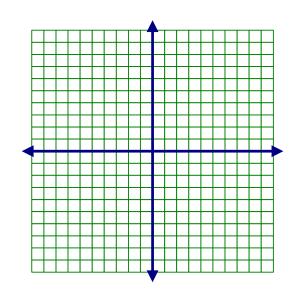
Directions: Write an equation of the line whose slope and y-intercepts are given.

5. slope = 3, y-int = -16. slope = -2, y-int = 27. slope = -1, y-int = 08. slope = 0, y-int = 3

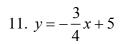
Directions: Graph the equation of the lines.

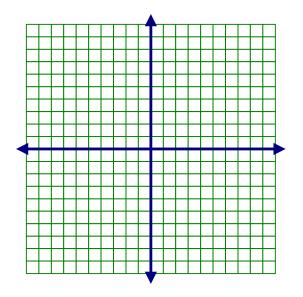
9. Graph: y = 4x - 2

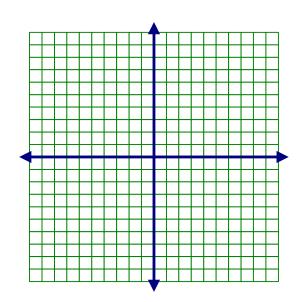




10. y = -2x + 3







13. y = x -5

14. y = -x

