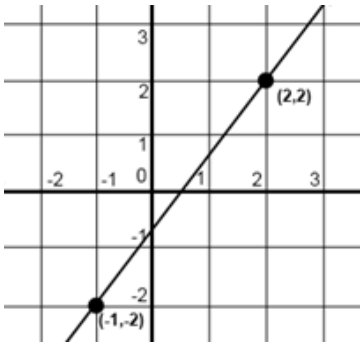
Algebra 1: 4 Intro Guided Notes - Day 1 **Name _____ Period _____**
Slope and Graphing Review

I. Find the Slope on a Graph



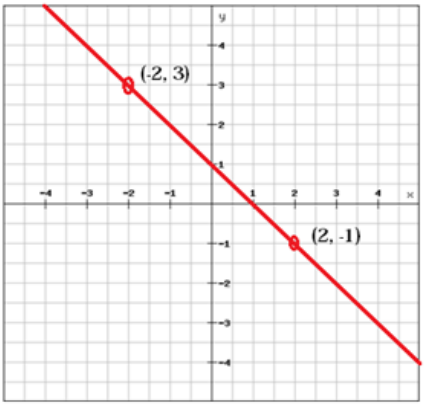
- Start with the point on the far left.
- Go UP 4 units.
- Go RIGHT 3 units.

$$\frac{rise \updownarrow}{run \leftrightarrow} =$$

m =

- What happens if you start with the point on the far right?

m =



- Start with the point on the far left.
- Go DOWN 4 units.
- Go RIGHT 4 units.

$$\frac{rise \updownarrow}{run \leftrightarrow} =$$

m =

II. Find the Slope Using Two Points

$$m = \frac{y_2 - y_1}{x_2 - x_1} \text{ for } (x_1, y_1) \text{ and } (x_2, y_2)$$

A. (2, 3) and (4, –6)

B. (–2, –3) and (–4, –6)

III. Find the Slope Using a Table

# of Days	Charge
x-values	y-values
1	\$10.00
2	\$20.00
5	\$50.00

- Pick ANY 2 rows.
- Write each row as an ordered pair (x, y).

- Use the slope formula to find the RATE OF CHANGE.

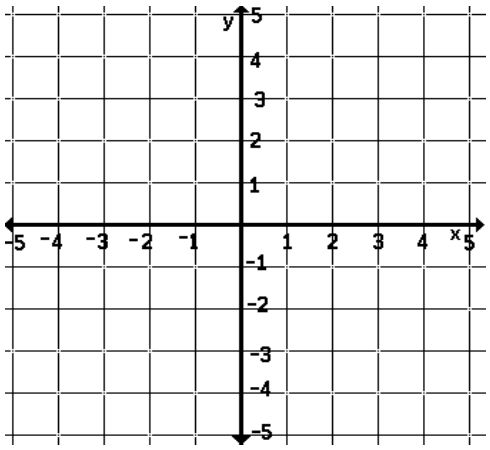
$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

- Rate of Change =

IV. Write and Graph an Equation in Slope-Intercept Form

A. $\frac{1}{2}x + y = 2$

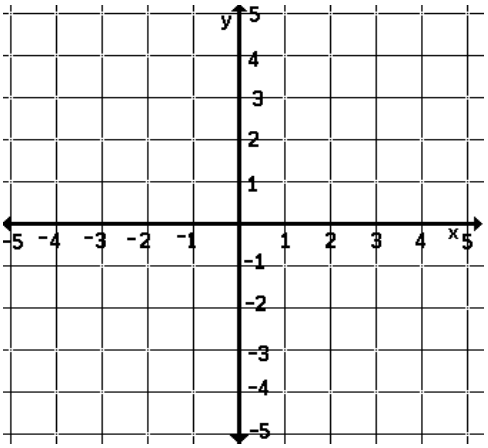
m = _____ b = _____



- Graph the y-intercept.
- Use the slope to plot 2 other points.
- Draw a line to connect the points.

B. $-2y = 2(4 - 3x)$

m = _____ b = _____

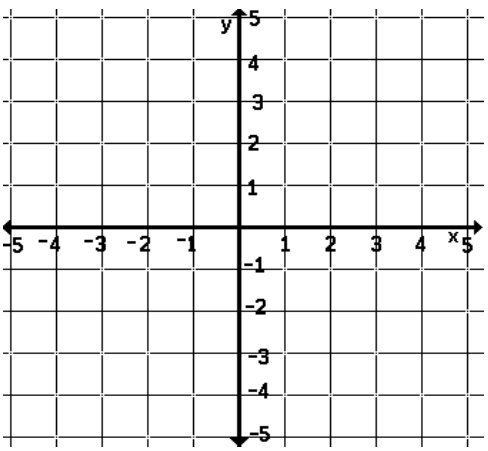


- Graph the *y*-intercept.
- Use the slope to plot 2 other points.
- Draw a line to connect the points.

C. $2y - 6 = 3x$

D. $4x + 3y = 2x - 1$

m = _____ b = _____



m = _____ b = _____