Activator

Page #1
Lesson 4.1

Can you write a table for this line $y = 2x - 1$ using the calculator?

X	Y
0	-1
1	1
2	3

Where does it begin (B)?

Lines always begin at (0,B).

The beginning is always next to 0.

Today's Objective

Unit 4
Lesson 1

Students will be able to determine the slope and y-intercept of a line and write an equation.

Announcements

Today's New Vocab (1 of 4)

Page #1
Lesson 4.1

What is the equation for every straight line?

$$Y = MX + B$$

x	y
0	B
1	y
2	y

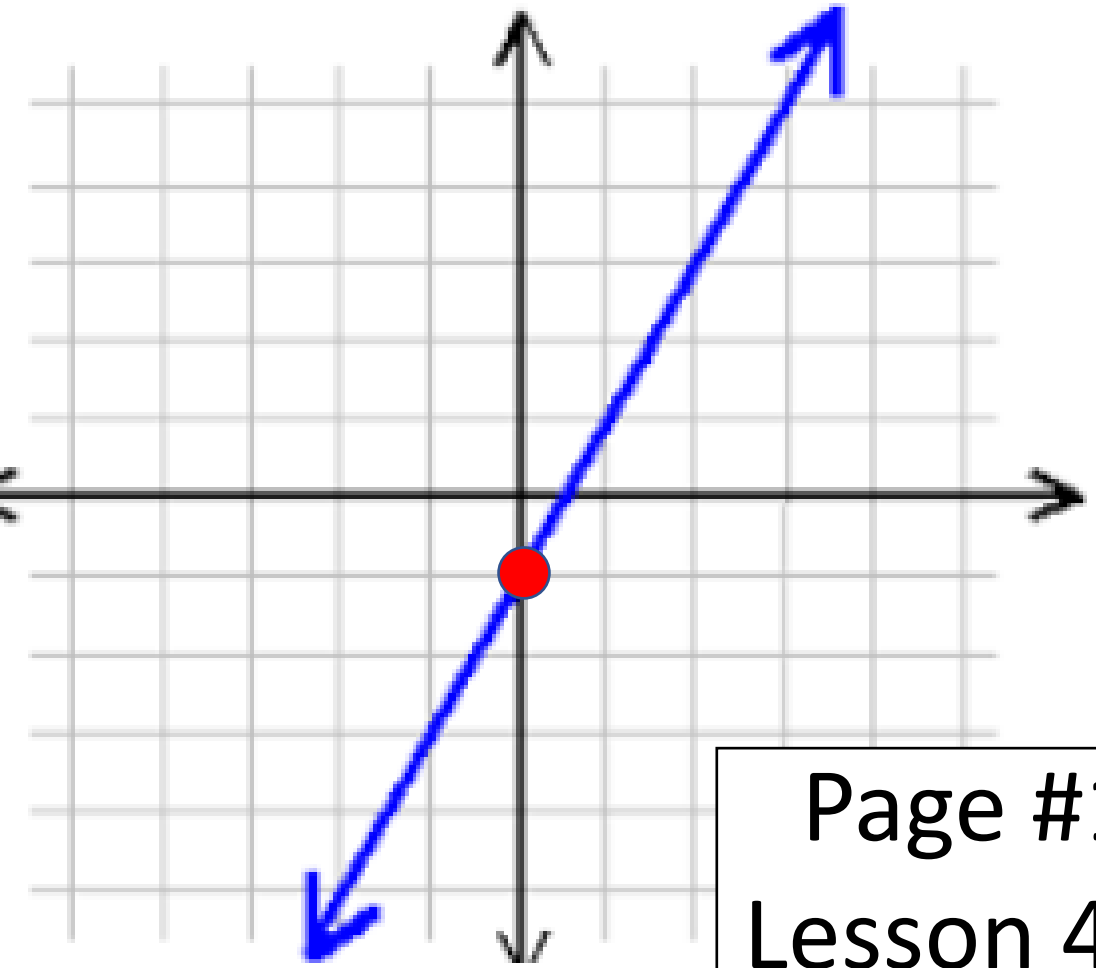
M

M = Slope and Change

B = Beginning

Today's New Vocab (2 of 4)

Write the y-intercept (B) of this line.



Page #1
Lesson 4.1

$Y = MX + B$

Plot the point

B is the Beginning on the Y-axis

What is the y-intercept?

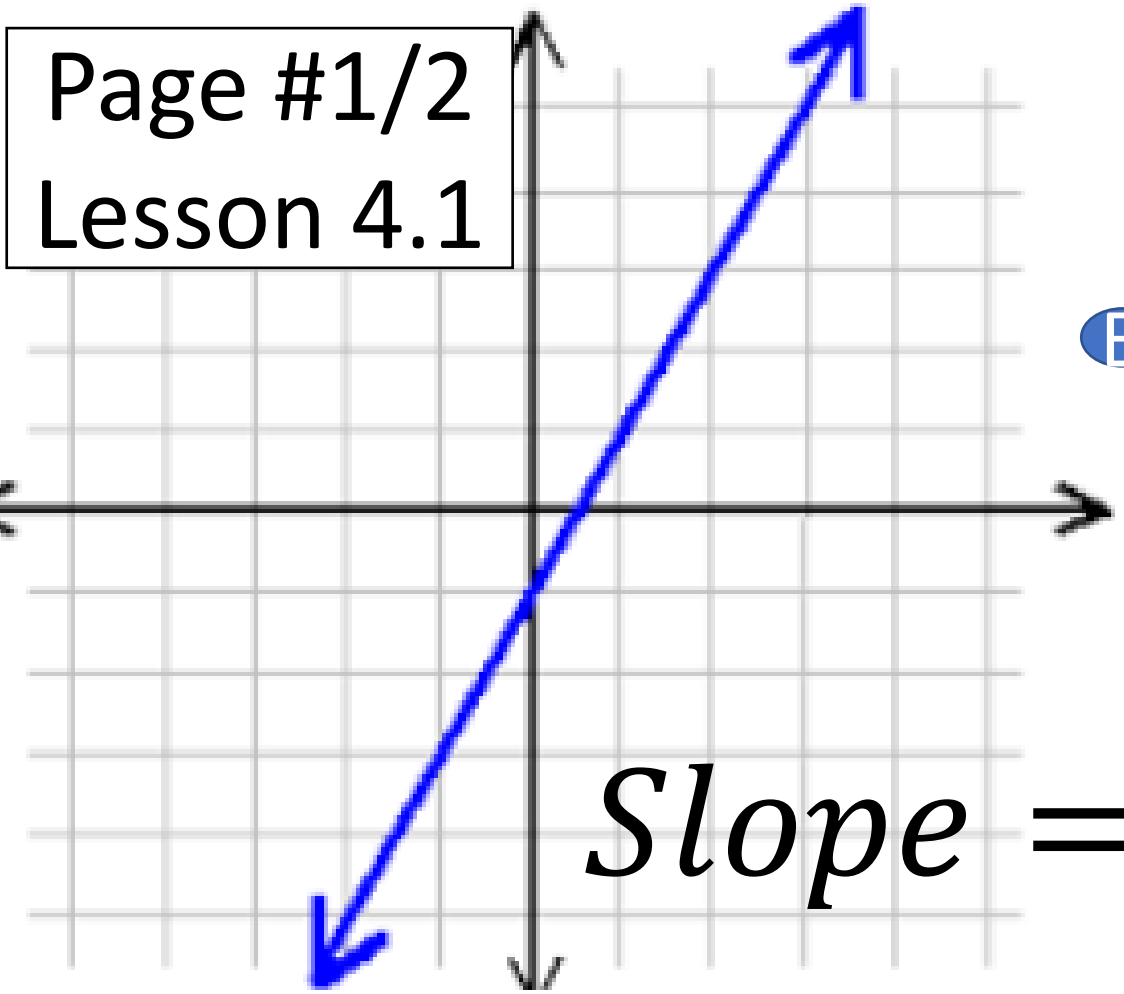
(0,-1)

B=-1

Today's New Vocab (3 of 4)

Write the slope (change) of this line.

Page #1/2
Lesson 4.1



Y = MX + B

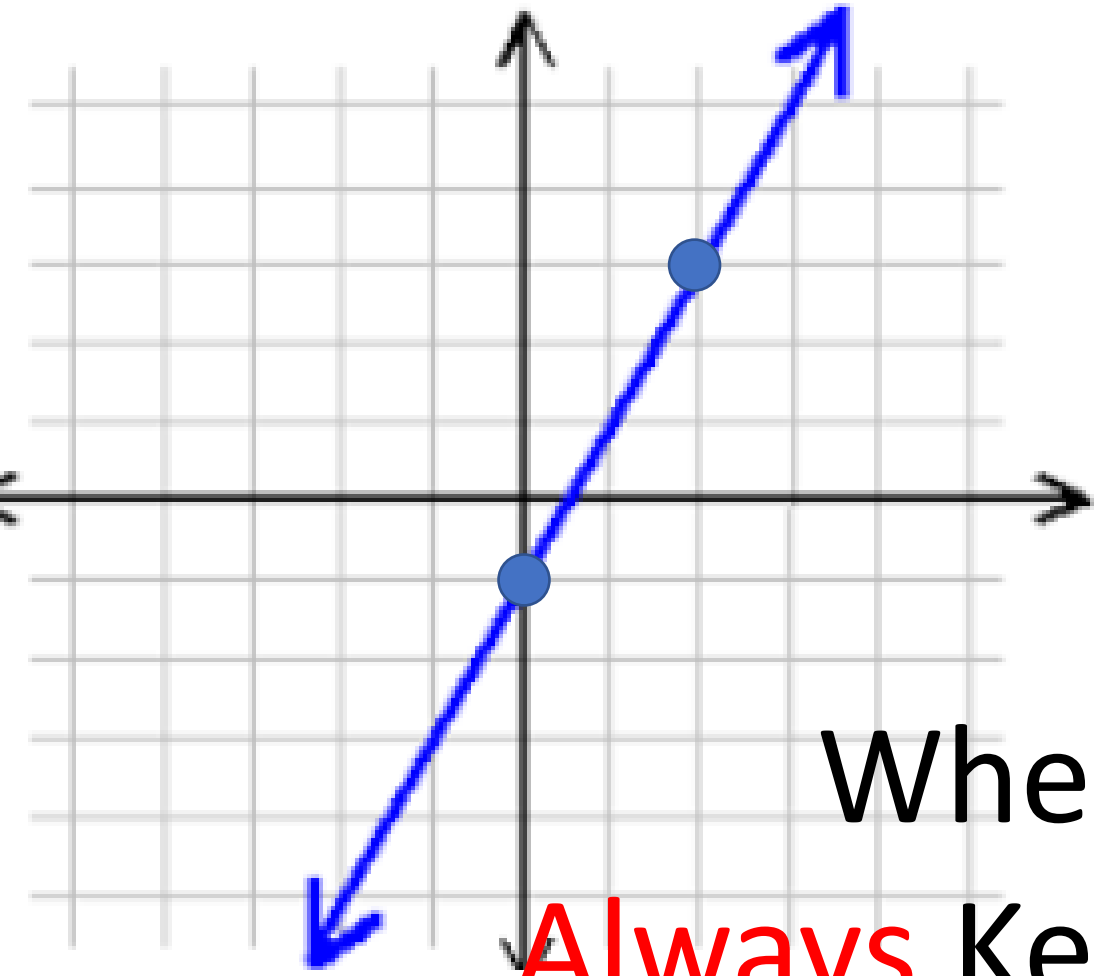
M is the SLOPE

Plot (2,3) and (0,-1)

$$Slope = \frac{Range\ (\frac{Up}{Down})}{Domain(L-R)} = \frac{+4}{2}$$

Today's New Vocab (4 of 4)

Write the equation of this line.



$Y = MX + B$

$Y = \frac{+4}{2} X - 1$

$Y = 2X - 1$

Page #2
Lesson 4.1

When writing an equation,

Always Keep x and y in the equation

Group Wars

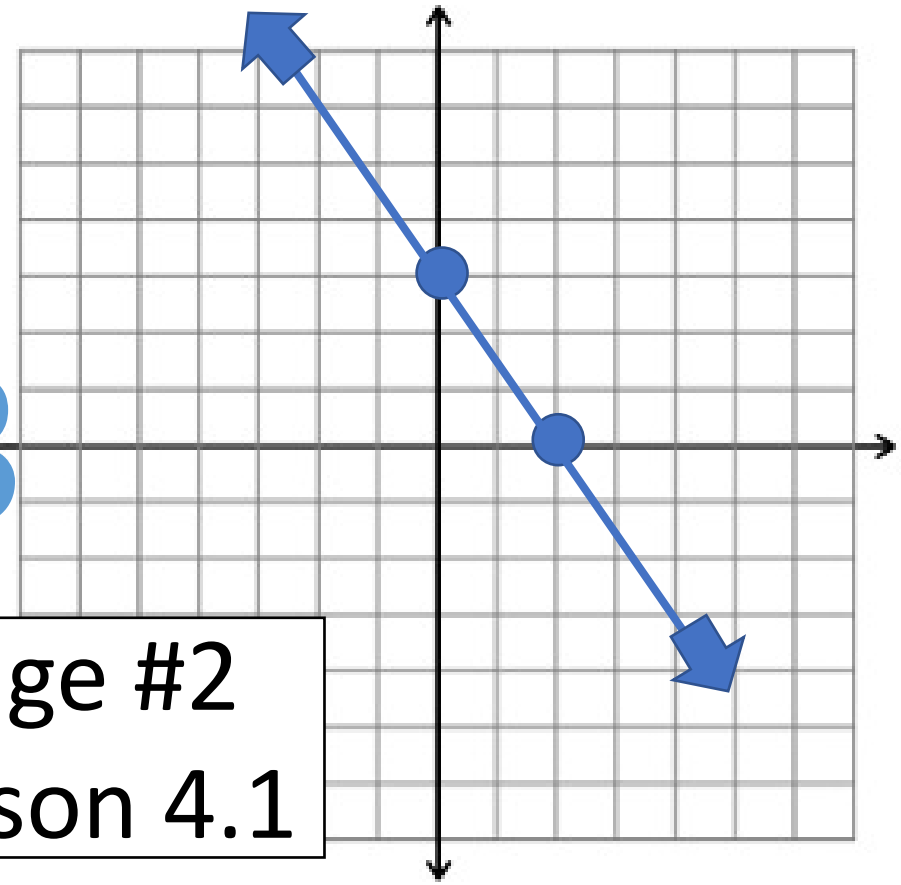
What is an equation for the line that passes through the coordinates (2,0) and (0,3)?

x	y
0	3
2	0
4	-3

$$Y = MX + B$$

$$Y = \frac{-3}{2}X + 3$$

Make a table.



Page #2
Lesson 4.1

Group Work Questions

Pages 3-4
Lesson 4.1

Directions: All groups, please do all of the questions. Use your notes from last class to help you. [Ask 2 people before you ask me.]

Last time, we did Lesson 4.1 Notes.

1st Stop @ 8:16

*One person from each group will present one question.

Exit Ticket

Write the equation of this line.

x	y
0	-6
1	-3
2	0
3	3

+1

+3

$$Y = MX + B$$

$$Y = \frac{+3}{1}X - 6$$

Is the slope positive or negative? + Why? M is +

Lesson 4.1 Game

Get $5 for each correct group of 3.

*Get the bag from Mr. V.

* Spread out the pieces.

* Match the graph to the written equation and table.

****There are 4 groups with 3 in each.**