Lesson1 (1-3) Graphing Linear Equations

Learning Objective: I can graph linear functions using the following methods:

- a table of values
- x- and y-intercepts
- a slope and y-intercept
- and a point and a slope.

I can find the x–&–y–intercepts of a line. I can find the slope of a line through two points. I can find zeros of linear functions?

EQ: How many methods are there for graphing a Linear Equation? How do I graph using each method?



Ex.1. Finding Slope

Plot the points, then find the slope of the line that passes through the points



Short Summary #1:



Ex. 2: Graphing Linear Equations

Graphing a Linear Equation using a table of values.



c.)
$$3x - y - 2 = 0$$



Short Summary #2:





Short Summary #4:

Ex. 5: Graphing Linear Equations When x or y is the only variable given. Graph the equation.

a.) f(x) = -3 b.) x = 4 c.) y = 2 d.) x = -1

e.) f(x) = 5

Short Summary #5:

Ex. 6: Finding the Zeros of a Function.

Find the zeros of each linear function. If no zero exists, write *none*. Then graph the function.

a.) f(x)=10x+8 b.) f(x)=-3 c.) f(x)=12x

d.)
$$f(x) = 7x - 10$$
 e.) $f(x) = 10$ f.) $f(x) = 8x - 24$

Short Summary #6: