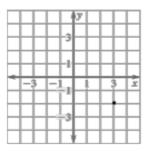
1.6/1.7/4.1-4.4 Quiz Study Guide

4.1: Plot Points in the Coordinate Plane

- Identify/graph ordered pairs
- Identify the 4 quadrants

Ex: Write the coordinates of point graphed and identify the quadrant it lies in.



4.2: Graph Linear Equations

- Be able to graph an equation using a table (choose appropriate values for x)

Ex: Graph 2x - 4y = 8

- Be able to identify domain and range of a function

Ex: You are transferring photos from your digital camera to a CD. Each photo on the camera takes up 2 megabytes of space. The number p photos that will fit onto a CD is given by the function s = 2p where s is the amount of space on the CD. One CD can store up to 700 megabytes of data. Identify the domain and range of the function.

4.3: Graph Linear Functions Using x and y intercepts

- Find x and y intercepts from an equation
- Identify x and y intercepts from a graph
- Interpret the meaning of x and y intercepts as they apply to real-world problems

Ex: Find the x and y intercepts of the equation 0.2y - 0.3x = 0.6

Ex: Graph 4x - 2y = -16 using intercepts.

Ex: Your earn \$20 an hour mowing lawns and \$10 an hour washing windows. You want to make \$500 in one week.

- a) Write an equation to represent the situation
- b) Graph the equation using x and y intercepts.
- c) What do the intercepts mean in this situation?
- d) What are three possible numbers of hours you can work at each job?
- e) If you work 30 hours washing windows, how many hours do you have to work mowing lawns?

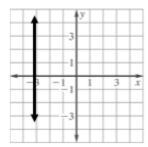
4.4: Slope and Rate of Change

- Find slope of a line that passes through two points
- Find slope of a line that is graphed
- Identify zero slope and undefined slope
- Find rate of change

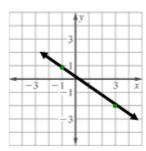
Ex: Find the slope of the line that passes through the points (6, -4), (-5, -8)

Ex: Find the slope of the line that passes through the points (-5, 5) (2, 5)

Ex: Find the slope of the line



Ex: Find the slope of the line



Ex: The table shows the amount of water evaporating from a swimming pool on a hot day. Find the rate of change in gallons with respect to time.

Time (hours)	2	6	12
Gallons evaporated	4.5	13.5	27

1.6: Functions as Rules and Tables

- Be able to identify an input output relationship as a function or not and explain why.

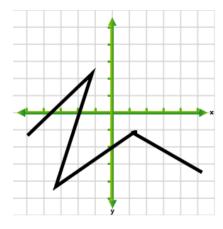
Ex:

x	у
3	1
2	1
1	1
0	1

Ex:

x	5	7	5	14
y	2	6	9	11

Ex:



- Be able to write a rule for a function given a table or graph.

Ex:

x	y
-10	7
-5	5
0	3
5	1
10	-1