Name:_____Date:_____Per:_____

Study Guide for Quiz #4

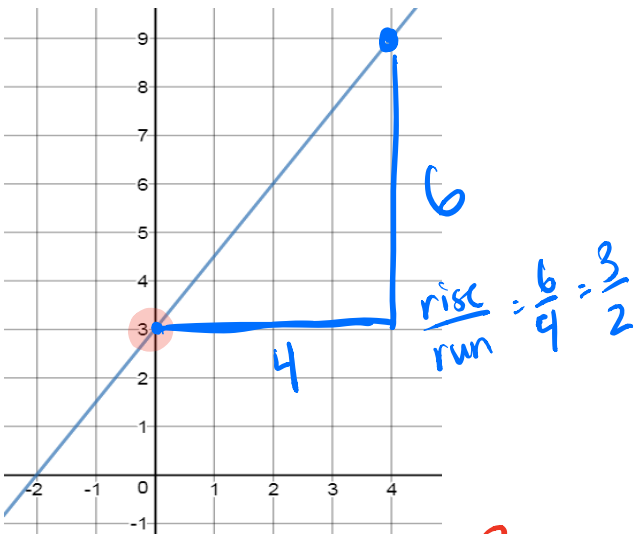
Define the following terms

Constant Rate of Change/Slope: the measurement of the steepness of a line

Initial Value/Y-intercept: the point where the line crosses the y-axis

1. Use the graph to create a table and find the CRC and initial value

Graph:



a. CRC/Slope: 3/2 b. Initial Value/y-int.: 3

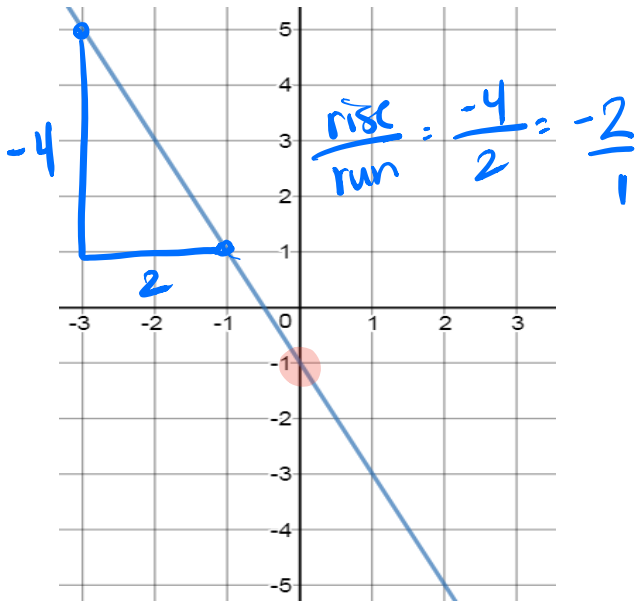
c. Circle the type of slope: **Positive** **Negative** **Zero** **Undefined**

Table:

x	-2	0	2	4
y	0	3	6	9

2. Use the graph to create an equation and find the CRC and initial value

Graph:



a. CRC/Slope: -2 b. Initial Value/y-int.: -1

c. Circle the type of slope: **Positive** **Negative** **Zero** **Undefined**

Equation/Rule:

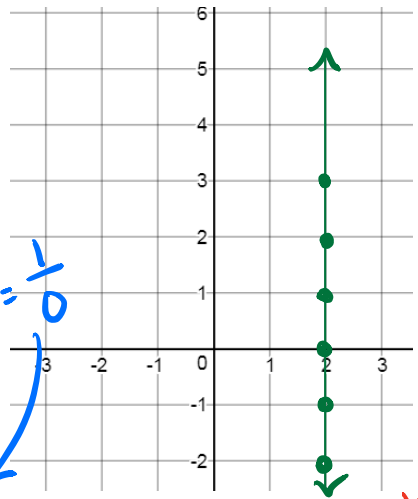
y = -2 x -1

3. Use the table to create a graph and find the CRC and initial value

Table:

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

Graph:



a. CRC/Slope: undefined b. Initial Value/y-int.: does not exist

c. Circle the type of slope: **Positive** **Negative** **Zero** **Undefined**

4. Use the table to create an equation and find the CRC and initial value

Table:

x	-3	0	3	6
y	5	10	15	20

a. CRC/Slope: $\frac{5}{3}$ b. Initial Value/y-int.: 10

c. Circle the type of slope: **Positive** **Negative** **Zero** **Undefined**

Equation/Rule:

$$y = \frac{5}{3}x + 10$$

5. Use the equation to create a graph and find the CRC and initial value

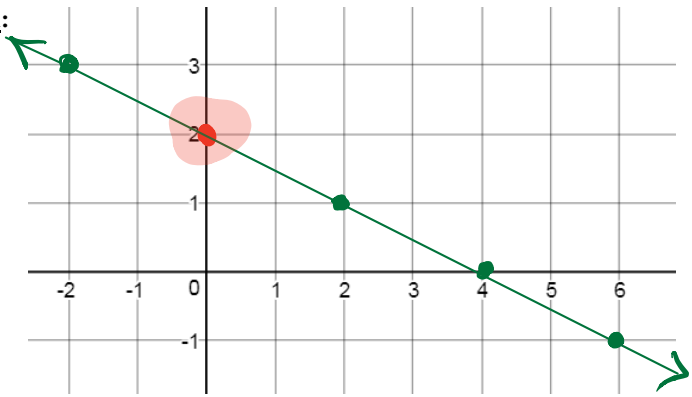
Equation/Rule:

$$y = -\frac{1}{2}x + 2$$

a. CRC/Slope: $-\frac{1}{2}$ b. Initial Value/y-int.: 2

c. Circle the type of slope: **Positive** **Negative** **Zero** **Undefined**

Graph:



5. Use the equation to create a table and find the CRC and initial value

Equation/Rule:

$$y = 0x - 4$$

a. CRC/Slope: 0 b. Initial Value/y-int.: -4

c. Circle the type of slope: **Positive** **Negative** **Zero** **Undefined**

Table:

x	-1	0	1	2	3	4
y	-4	-4	-4	-4	-4	-4