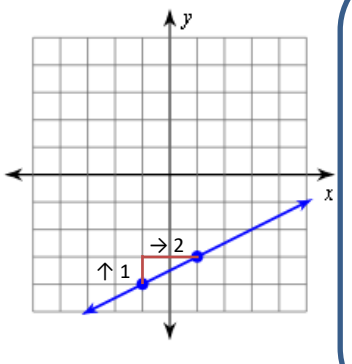
Unit 2 1.6 Name_____

Calculating Slope from a Graph and Ordered Pairs Notes

***Objective:* Determine the slope of the line given a graph or a set of ordered pairs.**

1. $m = \frac{1}{2}$

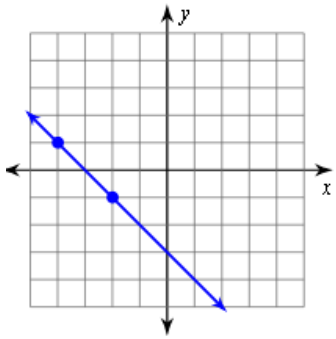


*slope = $\frac{rise}{run}$

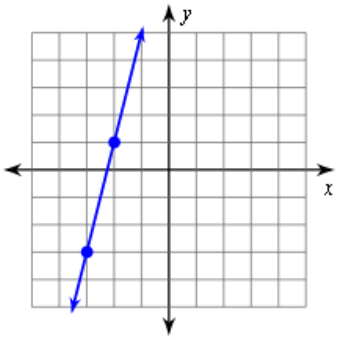
*slope = $\frac{change\ in\ y}{change\ in\ x} = \frac{\Delta y}{\Delta x}$

How to find slope from graph:
(start with the point on left and go to the point on the right)
1. count up/down (this will be the numerator – Δy)
2. count right (this will be the denominator - Δx)

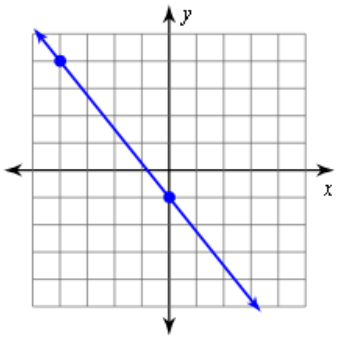
2. $m =$ ____



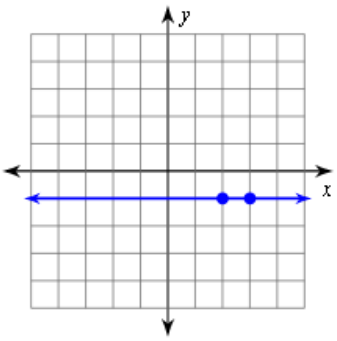
3. $m =$ ____



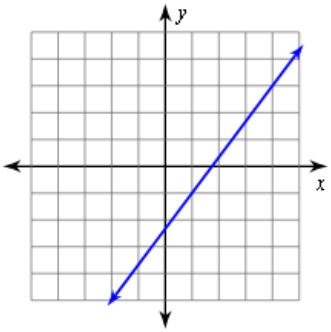
4. $m =$ ____



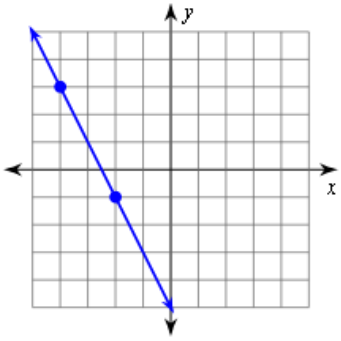
5. $m =$ ____



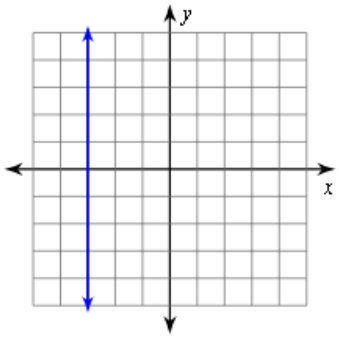
6. $m =$ ____



7. $m =$ ____



8. $m =$ ____



Unit 2 1.6 Name_____

Find the slope of the line between two given points.

9. *Example*: $\underset{x_1}{(2,}\ \underset{y_1}{13)}\quad \underset{x_2}{(1,}\ \underset{y_2}{8)}$

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

$$slope = \frac{8 - 13}{1 - 2}$$

$$slope = \frac{-5}{-1} = \frac{5}{1} = 5$$

1. Decide which ordered pair is going to be #1 and which will be #2, then label your x's and y's
2. Fill the numbers from your ordered pairs into the appropriate spots within the formula
3. Simplify

10. $(5,1)\quad(1,3)$

11. $(6,8)\quad(0,-6)$

12. $(7,-4)\quad(7,8)$

13. $(-4,8)\quad(8,-1)$

14. $(6,-2)\quad(-3,4)$

15. $(16,9)\quad(-8,9)$

16. $(3,4)\quad(-2,7)$