Module: Linear Equations **Name:**
Lesson 1: Slope **Date:**
Student Notes for PowerPoint **Pd:**

*****can be completed with powerpoint finding slope********

Today's Objective:

Define:

Slope:

FORMULA=

Which slopes go uphill?

Which slopes go downhill?

Tell if the following slopes go up or down.

1. -3 **2.** $\frac{1}{2}$ **3.** $\frac{-5}{2}$ **4. 9** **5. -10**

FINDING SLOPE GIVEN TWO POINTS:
Ex 1:

Find the slope given the points {(2,1), (5,-3)}.

m=_____

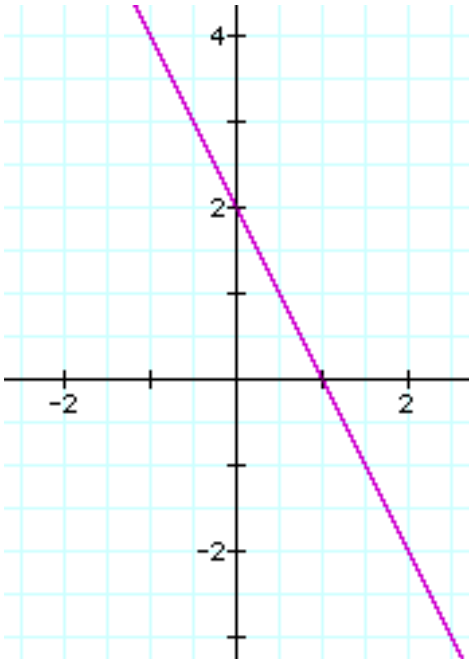
You try the following:

1) (3, 5), (-1, 4)

2) (-5, 3), (2, 1)

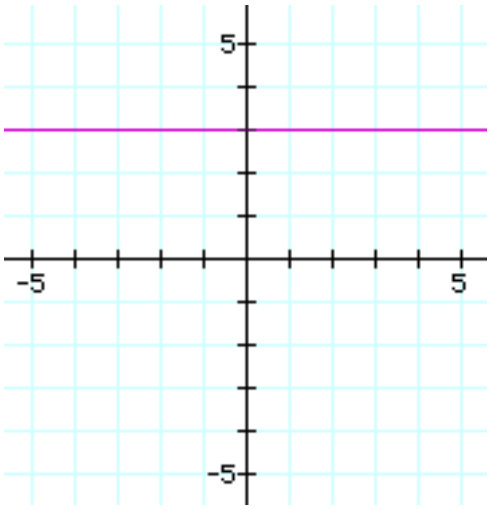
FINDING SLOPE GIVEN THE GRAPH OF THE LINE:

Ex 1:

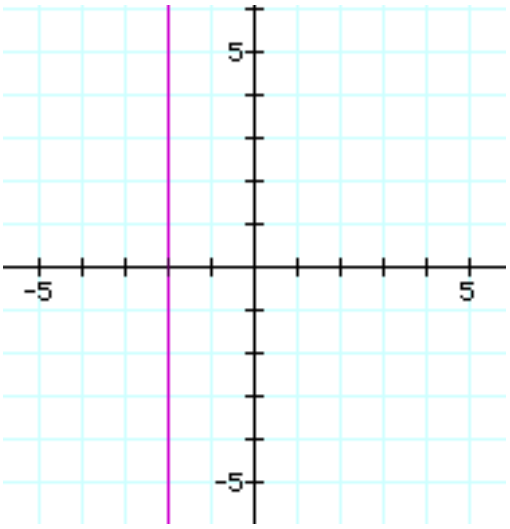


Explain in your own words how you find the slope of a line given the graph. Also explain in your own words what the slope means?

Ex 2:

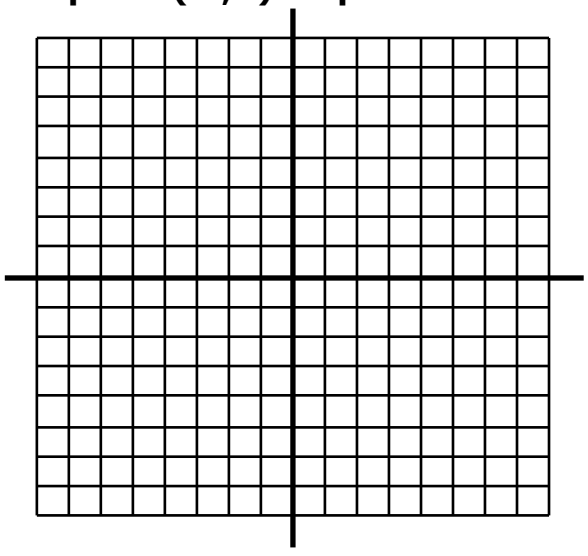


Ex 3:



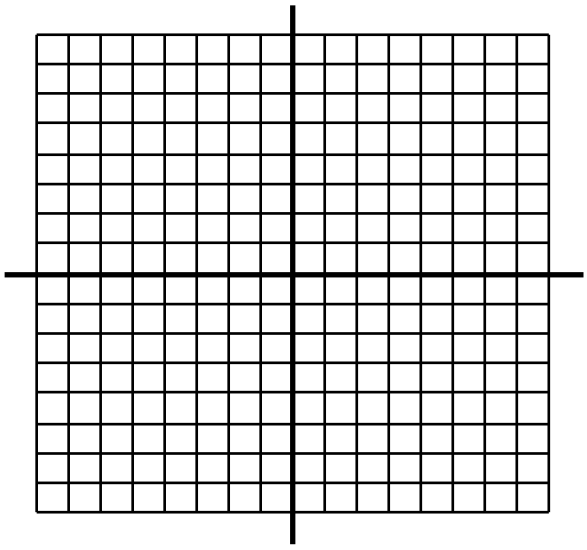
What does HOY and VUX mean? How will the help you understand slope?

Given a point and slope-- Can we graph the line?
Ex. point (3,0) slope = 3

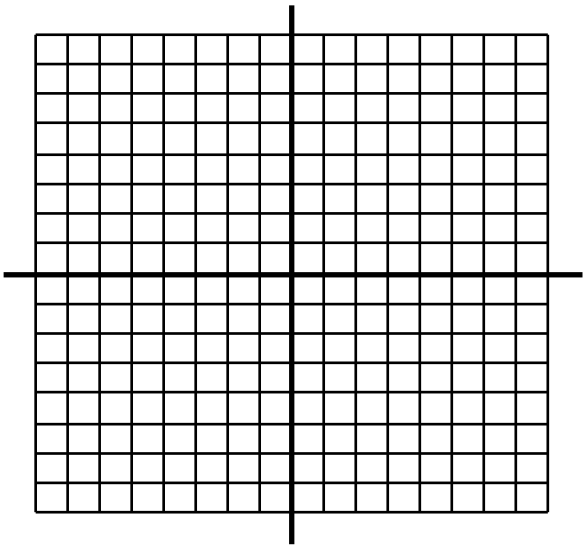


You Try:

1. point = (-2,4) and slope = -2/3



2. point (0,-4) and slope = 0



Given the slope of a line you can find missing coordinates.

Ex. Find r if m= $\frac{-3}{2}$ and the line goes through (r,6) and (10,-3).

Your Turn: Find r.

1. Given m = $\frac{1}{5}$ and points (-2,4) and (r, 5).

2. Given m = $\frac{3}{4}$ and points (3,4) and (-1,r).