

**A REVIEW OF SLOPE**

**SLOPE** measures the \_\_\_\_\_ of a line. It is the constant \_\_\_\_\_.

It is the rate of \_\_\_\_\_ change to \_\_\_\_\_ change.

$$\text{SLOPE} = \frac{\text{change in } y}{\text{change in } x} = \frac{\Delta y}{\Delta x}$$

There are four types of slope ( $m$ ) – and several ways to remember them:

Let  $m$  remind you of a mountain. Mr. Vux Hoy is going skiing.



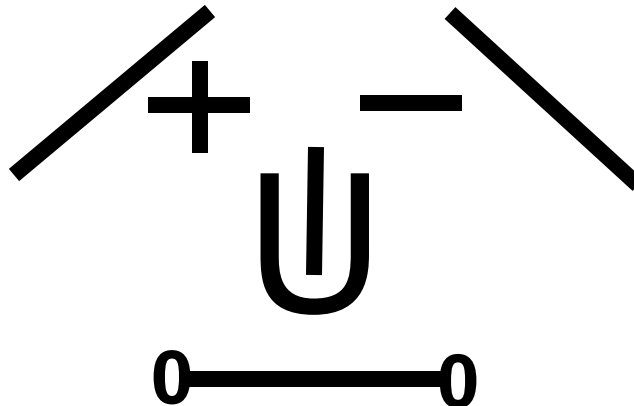
Uphill = positive (+)

Downhill = negative (-)

Flat = zero fun (0)

Off the cliff = undefined

OR Draw Mr. Vux Hoy:



So who is Mr. Vux Hoy?

Vertical  
Undefined  
 $x =$

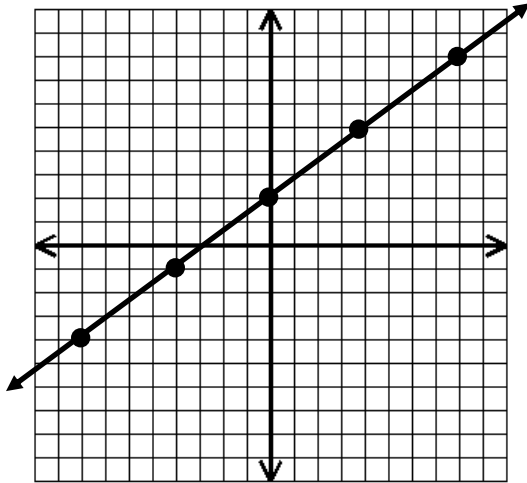
Horizontal  
0  
 $y =$

Note: You can also use the calculator to check for 0 vs. undefined slope!

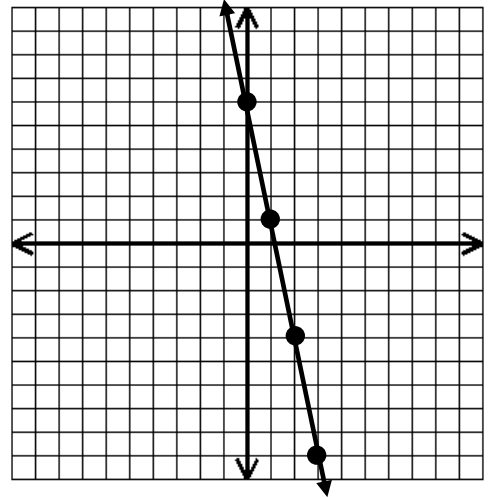
SLOPE = \_\_\_\_\_ = \_\_\_\_\_

Find the type of slope and the slope of each line shown.

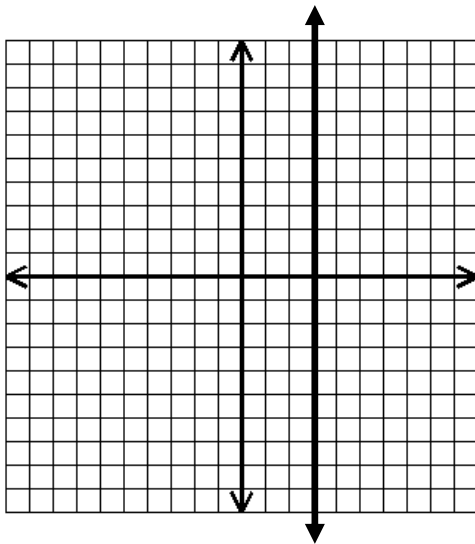
1. type \_\_\_\_\_ m= \_\_\_\_\_



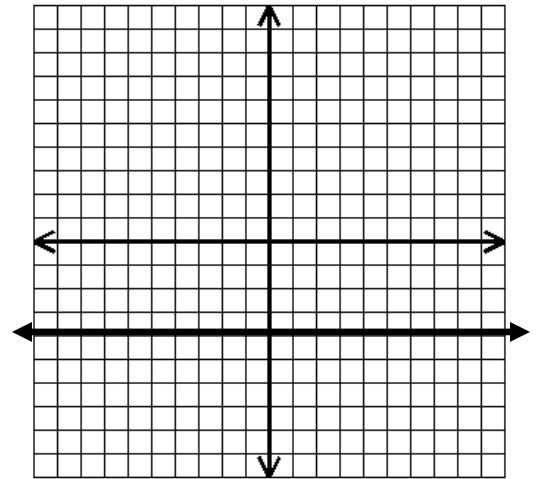
2. type \_\_\_\_\_ m= \_\_\_\_\_



3. type \_\_\_\_\_ m= \_\_\_\_\_



4. type \_\_\_\_\_ m= \_\_\_\_\_



Find the slope using the slope formula.

5. (7,1) (9,4)

6. (2,5) (-3,9)