FIND SLOPE: TABLE OF VALUES & EQUATION

A TABLE OF VALUES is a table used to record the ______ of points in a relation.

A **RELATION** is a pattern that connects two sets of data (______). (x,y)

A LINEAR RELATION is a _____.

SLOPE is the ______ of one point on a line in relation to another point.

TO FIND SLOPE USING A TOV...

We look at the unit change in one value ("x") in relation to the unit change in a second ("y") value. (as "x" increases, we can find how much "y" changes)

RATE OF CHANGE = SLOPE = m =

Example 1: Use a table of values to determine the slope for the relation.

x		Coordinates (x, y)	Rate of Change (slope)
0	<i>y</i> = 3 () + 1 =	(,)	
1	y = 3() + 1 =	(,)	
2	<i>y</i> = 3 () + 1 =	(,)	
3	y = 3() + 1 =	(,)	
4	<i>y</i> = 3 () + 1 =	(,)	

If the *slope* is the *same* for all coordinates then the *rate of change* is *constant* \rightarrow the line is *straight*.

Example 2: Slope and the Coefficient of x

x	Coordinates (x, y)	Rate of Change (slope)
-1		
0		
1		
2		

COMPARE

Look at the co-efficient of x and the rate of change.

What do you notice?

Example 3: Find SLOPE using the TOV below

x	У
0	0
1	6
2	12
3	18
4	24
5	30

Example 4: Transform each equation into a y = mx + b equation. Then state the slope.

a) y = -3x + 7b) -2x + y = 6c) y - 3x = 7x + 2

ALL ABOUT SLOPE...

GIVEN:	GRAPH	TWO POINTS	ΤΟΥ	EQUATION y = mx + b
USE:				

And remember... Leave SLOPE as a fraction, and always put in lowest terms!!!