



Determine the Slope of a Line Given Points (coordinates in a table) on the Line

Name _____

Date _____

Determine the slope using the information from each table.

Step 1: Pick any two given points and find the slope using the formula $slope = m = \frac{y_2 - y_1}{x_2 - x_1}$

Example: $(-2, -2)$ and $(-1, -3)$ so $m = \frac{-3 - (-2)}{-1 - (-2)} = \frac{-3 + 2}{-1 + 2} = \frac{-1}{1} = -1$

Step 2: Pick two more points and find the slope using the same formula.

Step 3: Compare your slopes. If they are the same then you have a linear function.

1.)

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

2.)

x	y
-4	5
-2	3
0	1
2	-1
4	-3

3.)

x	y
-2	-3
-1	0
0	3
1	6
2	9

4.)

x	y
-9	4
-3	0
0	-1
3	-4
9	-2

5.)

x	y
-14	-3
-7	1
0	5
7	9
14	13