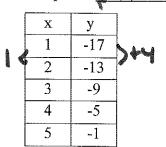**Finding Slope from Tables**
Homework

Determine the **slope** of the line **in** each **table** by finding the ratio: **y-interval change to x-interval change**.
Then, describe the slope of the graph as **positive, negative, vertical, or horizontal.**

1. m = __2__
Description: positive

x	y
-2	3
-1	5
0	7
1	9
2	11

+2 +2 +2 +2

2. m = __4__
Description: positive

x	y
1	-17
2	-13
3	-9
4	-5
5	-1

+4

3. m = __2.5__
Description: positive

x	y
0	3
1	5.5
2	8
3	10.5
4	13

2.5

4. m = __-5__
Description: negative

x	y
-6	-4
-5	-9
-4	-14
-3	-19
-2	-24

-5

5. m = __0__
Description: horizontal

x	y
-4	6
-2	6
0	6
2	6
3	6

0

6. m = __Undefined__
Description: Vertical

x	y
5	2
5	4
5	6
5	8
5	10

2

7. Find the rate of change. m = __5__   Graph Description: __positive__

Number of Lunches	1	2	3	4	5
Total Costs (dollars)	5	10	15	20	25

x

y

+1

+5

8. Find the rate of change. m = __-1__   Graph Description: __negative__

$\frac{-3}{3} = -1$

Time in seconds	7	9	11	14	16
Altitude in meters	4	2	0	-3	-5

2

-2

9. Karen's parents were keeping a record of her growth from ages 12 through 16. She was 60 inches was she was 12 and they found she was growing an inch per year. Make a table showing Karen's growth for these Years.

Age (yrs)	12	13	14	15	16
Height (in)	60	61	62	63	64

a) What is the independent variable? __Age (years)__

b) What is the dependent variable? __Height (inches)__

c) Using the table, find the slope of the line.

$m = 1$ 1 inch per year → rate of change is slope

d) What would be a reasonable domain for this situation?

$R \geq 12$ $12 \leq X \leq 16$

e) What would be a reasonable range for this situation?

$R \geq 60$ $60 \leq y \leq 64$