

Name \_\_\_\_\_

Period \_\_\_\_\_

Date \_\_\_\_\_

### Slope from a Table

Use T1-83

# Linear Regression!!!

Find the rate of change (slope) represented in each table.

A.

x	y
0	0
1	5
2	10
3	15
4	20

B.

x	y
0	8
2	9
4	10
6	11
8	12

C.

x	y
0	100
5	92
10	84
15	76
20	68

D.

x	y
0	3
2	6
4	9
6	12
8	15

E.

x	y
0	4
3	10
6	16
9	22
12	28

F.

x	y
0	10
4	16
8	22
12	28
16	34

G.

x	y
0	50
1	48
2	46
3	44
4	42

H.

x	y
0	7
10	12
20	17
30	22
40	27

I.

x	y
0	80
5	70
10	60
15	50
20	40

J.

x	y
0	20
3	26
6	32
9	38
12	44

Which tables (A-J) have the same rate of change (slope)?

Which tables are decreasing?

Which tables are increasing?

## Lesson 1 Extra Practice

### Represent Relationships

1. The zoo is holding a recycling day. It deducts \$0.10 from the price of admission for each recyclable item donated at the zoo. Admission is \$15. The table shows the reduced price for admission if 10, 11, 12, or 13 items are donated.

Number of Items Donated	Price (\$)
10	14.00
11	13.90
12	13.80
13	13.70
$d$	?

a. Write an equation to determine the price of admission  $p$  with any number of donated items  $d$ . Describe the relationship in words.

b. Use the equation to find the cost of admission if 25 items are donated.

2. Jen is renting a mountain bike. The bike rental shop charges a \$55 deposit for the bike and helmet plus an additional \$15 per day.

a. Write an equation to find the cost  $c$  of renting a mountain bike for any number of days  $d$ .

b. Make a table to find the cost for 4, 5, 6, and 7 days. Then graph the ordered pairs.


