

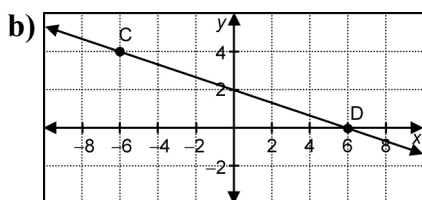
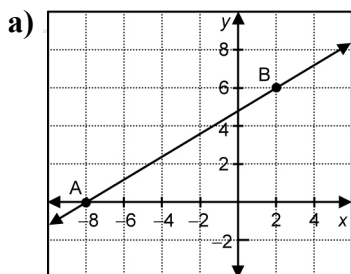
Name: _____

Date: _____

BLM 3.1.1

Practice: Slope as a Rate of Change

1. For each graph, determine the rise and run between the pairs of points shown, then calculate the slope.

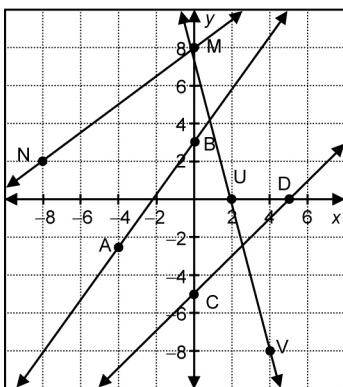


2. For each linear relation, create a table of values for $x = 0, -1, -2, -3, -4$, then graph the line.

- a) $y = 5x - 4$ b) $y = -x$
c) $y = 2 + x$ d) $y = 1 - 4x$

3. Determine the slope of each line from question 2.

4. Calculate the slope of each line segment.



5. Create a table of values for $x = 0, -1, -2, -3, -4$. Then determine the rate of change in the y -values.

- a) $y = 3x + 4$ b) $y = 2 - x$
c) $y = 5 + 3x$ d) $y = -6x$

6. Graph each relation.

a)

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

b)

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

7. Carrie's earnings increase for every T-Shirt she sells. Her potential earnings are shown in the table.

T-Shirts Sold	0	1	2	3	4
Earnings (\$)	0	5	10	15	20

- a) Determine the rate of change in Carrie's earnings for each T-Shirt sold.
b) Graph the data from the table.
c) Determine the slope of the line.