Unit 4 Study Guide – Part 1
Graphing and Analyzing Linear Functions
Learning Goals 4.1, 4.2, 4.3

Good Luck To: _____
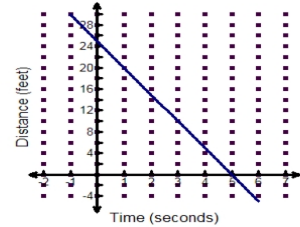Date: _____
Period: _____

1. The table, graph, and scenario below each depict a relationship between two quantities. Determine whether or not each relationship is **linear**. Explain your reasoning in each case.

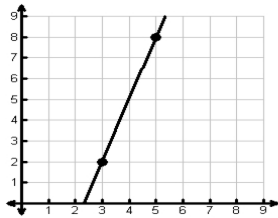a) Steve charges $8 to show up to do yard work and an additional $7.50 an hour for each hour he works
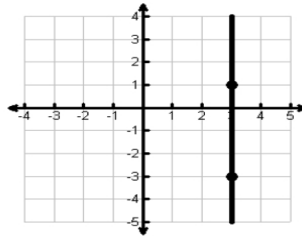
b)

Input (x)	Output (y)
-2	3
-1	3
0	3
1	3
2	3

c)

2. Identify the slope of each graph below as either, positive, negative, zero, or undefined.

a)

b)

c)

_____   _____   _____
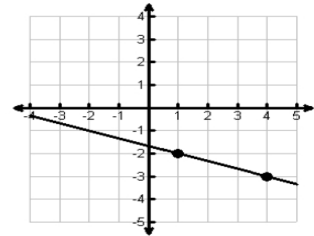
3. Find the slope of the line that contains the given points. Then name another point on the same line.
    (1, 4) and (4, 12)

slope =

additional point (_____ , _____)

4. The local bagel store sells bagels for $0.49 each.

a) Complete the table at the right.

b) Write an equation from the table.

c) Is this a direct variation, inverse variation or neither? Tell how you know.

Number of bagels (bagels)	Cost (dollars)
0	
3	
6	
9	
12	

Page 1 of 2