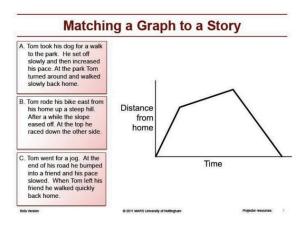
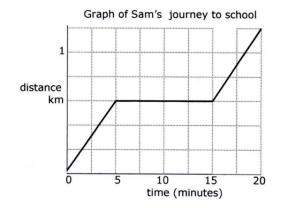
Review for test 5.1-5.6

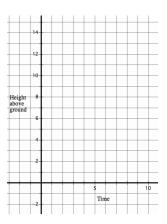
1. Circle the best explanation for the graph.



2. Explain Sam's journey to school.

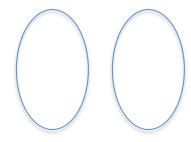


3. Sketch the graph to show the height of an elevator above the ground. Explain what is happening as the elevator moves.



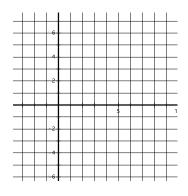
4. Determine if the relation is a function. Use a mapping diagram. Label!

х	у
-4	2
-2	1
0	0
1	2



5. Determine if the relation is a function. Use a graph.

X	у
-3	-2
4	-1
8	-1
4	-2



Find the range for each function when the domain is  $\{-2, -1, 0, 1, 2\}$ . Place the information in a table of values then graph on the coordinate system provided.

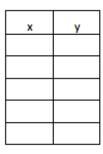
6. 
$$y = 2x - 3$$

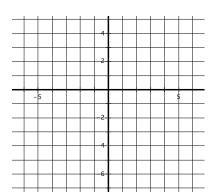
x	у

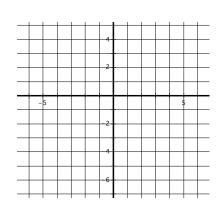
7. 
$$y = x^2 + 1$$

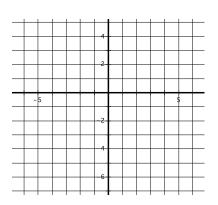
x	у

8. 
$$y = |x|$$









7a. The price for a candy bar \$1.25. Write a function rule to illustrate what is paid when buying candy bars.

7b. Find the price for 5 candy bars.

8a. You are paid \$8.50 per hour to mow lawns. Write a function rule to illustrate what you earn when mowing lawns.

8b. Find the amount of money you earn when you work 3 hours.

9a. The cost to rent a go cart is \$15 plus \$2 per hour. Write a function rule to illustrate what the cost is to rent a go cart.

9b. Find the cost to rent a go cart for 6 hours.

Write the function rule for each table below.

10.

х	у
1	2
2	4
3	6
4	8

11.

х	f(x)
2	3
4	5
6	7
8	9

Write an equation of **direct variation** that includes the given point. Your answer should be in the form of y = kx with a number filled in for k.

Suppose y varies inversely with x. Write and equation of **inverse variation**. Your answer should be in the form of y = k/x with a number filled in for k.

16. For the examples below, one represents inverse variation while the other represents direct. Decide which is which and justify your answer.

- a. A house is painted by a group of volunteers.
- b. You are charged \$3.25 for each meal deal.