This is your review guide for the Chapter 5 Quiz. These problems are from your notes, so look up the answers in your notes to make sure you did the review problems correctly ☺

Write a Contract Log for the following functions: +, -, *, /, triangle, rectangle, string-append and text.

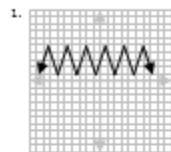| Name	Domain	Range

Practice Domain and Range.

Unit 1 Linear Functions
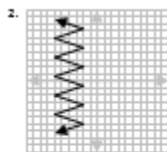Review Day Practice
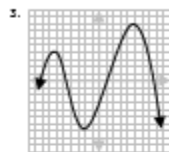Function, Domain, Range Worksheet

Name
Hour   Date

For each of the following:
a.   Determine whether each is a function.
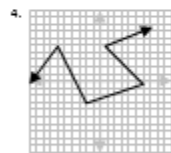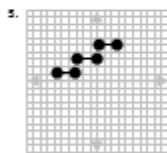b.   State the domain.
c.   State the range.
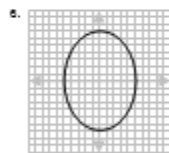
8.   {(-1,2),(1,-1),(2,1),(-2,-1)}

8a. _____
8b. _____
8c. _____
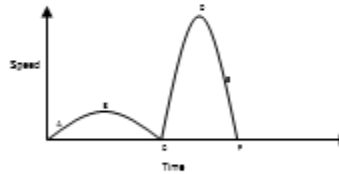
9.   {(-5,4),(-5,-8),(-5,10)}

9a. _____
9b. _____
9c. _____

10. {(7,5),(6,2),(5,1),(4,0)}

10a. _____
10b. _____
10c. _____

1a. _____   2a. _____   3a. _____
1b. _____   2b. _____   3b. _____
1c. _____   2c. _____   3c. _____

11. The event "climbing a hill and sledding down" is graphed. Describe the sledder's journey at points A – F. (Be careful, the y-axis is labeled Speed, NOT height.)

4a. _____   5a. _____   6a. _____
4b. _____   5b. _____   6b. _____
4c. _____   5c. _____   6c. _____

7.   {(3,4),(2,4),(-6,4)}

7a. _____
7b. _____
7c. _____

A _____

B _____

C _____

D _____

E _____

F _____

Evaluate each function rule for x = 2.1

$$y = 2x + 1 \qquad\qquad f(x) = x^2 - 4 \qquad\qquad g(x) = -x + 2$$

Find the range of each function for the domain {–2, 0, 2}.

$$f(x) = x - 6 \qquad\qquad y = -4x \qquad\qquad g(t) = t^2 + 1$$

Write a function rule for each table.

x	y
1	−1
2	0
3	1
4	2

x	y
1	2
2	4
3	6
4	8

x	y
1	3
2	4
3	5
4	6

x	y
2	8
4	10
6	12
8	14

x	y
1	2
2	5
3	10
4	17

Write functions using function notation for the following situations.

The exhibit is 20 times larger than normal. Find the length of an object in the exhibit.

The newspaper makes $25 per page of advertisement. Find the money they will make based on how many pages of advertisements they sell.

A carpenter buys finishing nails by the pound. Each pound of nails cost $1.19. Write a function rule to describe this relationship. How much do 12 pounds of finishing nails cost?

Suppose you buy a word-processing package for $199. You charge $15 per hour for creating word-processing documents for people. Write a rule to describe your profit as a function of the number of hours you work.

Play with the 2 cars applet. http://media.mivu.org/mvu_pd/a4a/resources/applets/2race.html