Key Features Homework II

1. Graph:
$f(x) = -3|x|$

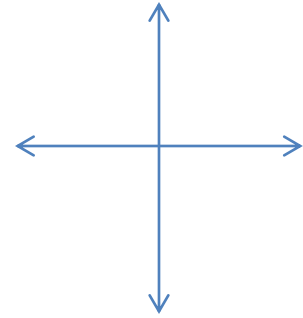| x	f(x)
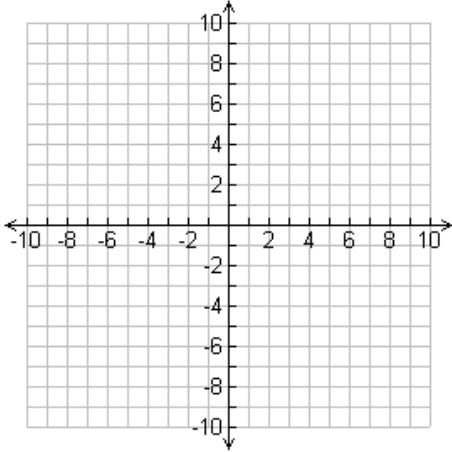
2. Find g(-3)

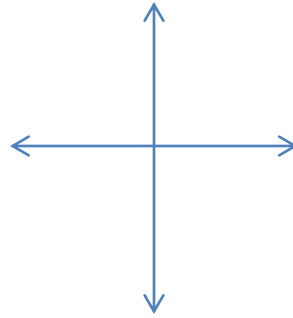3. Find x when g(x) = -6

g(x)
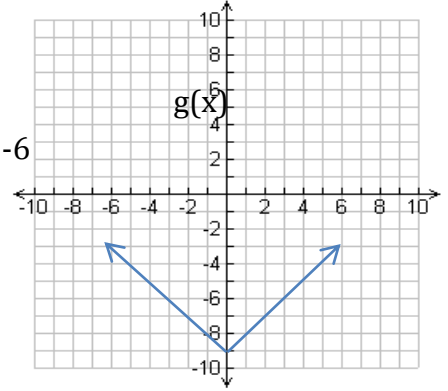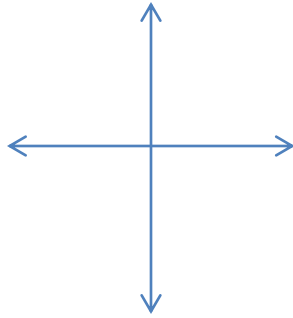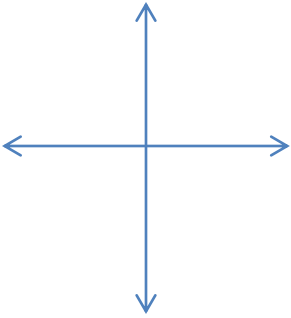
4. Draw a Sketch of Each Type of Graph:

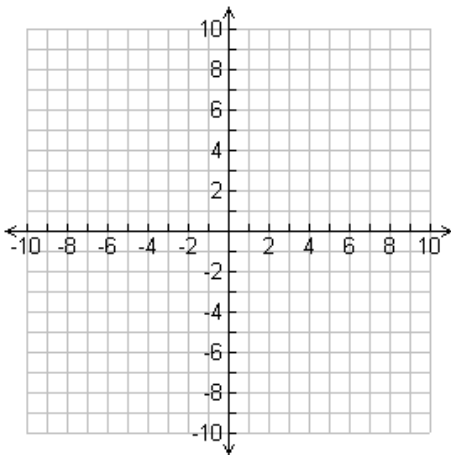Linear: Parabola: Absolute Value: Square Root:
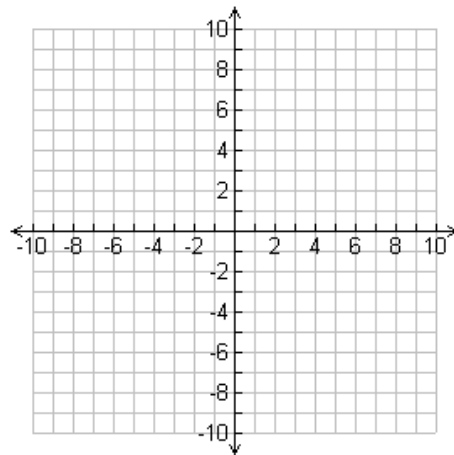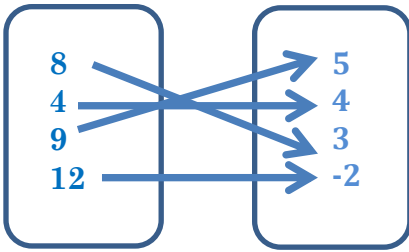
5. Draw a graph that is increasing, then decreasing, has x intercepts of -9 and 1, and a y intercept of 4.

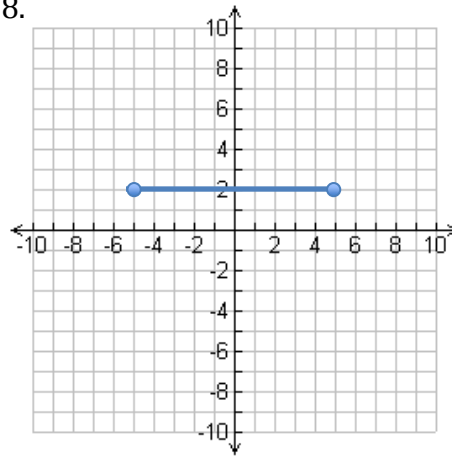6. Draw a graph that is increasing with a changing slope and has a y intercept of -8.

7.

8.

9.

Domain: Domain: Domain:
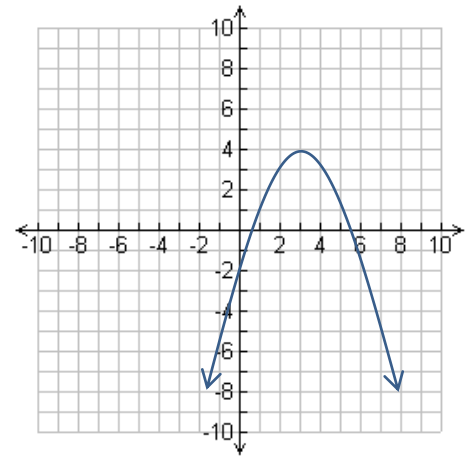

Range: Range: Range:

10.   A sanitation company charges a $10 weekly fee plus $4 per bag of garbage. They only allow up to 5 bags of garbage for a household.

   a. Write a rule in function notation for this situation.

   b. What is a reasonable domain and range for this situation?

11.   The American Red Maple tree grows approximately 4 feet per year until they reach a maximum height of about 20 ft.

   a. Write a rule in function notation for this situation.

   b. What is a reasonable domain and range for this situation?

12.   A bakery has 320 ounces of bread dough. A machine will cut the dough into 5-ounce sections and bake each section into a loaf every minute.

   a. Write a rule in function notation for how much dough is left to bake.

   b. What is a reasonable domain and range for this situation?