Mod 5 Review
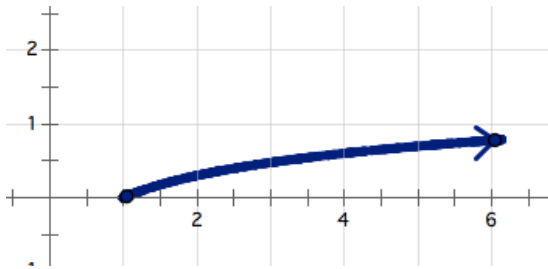
List Key Features of the following functions:

1.

2.

3.

4.

h(x)
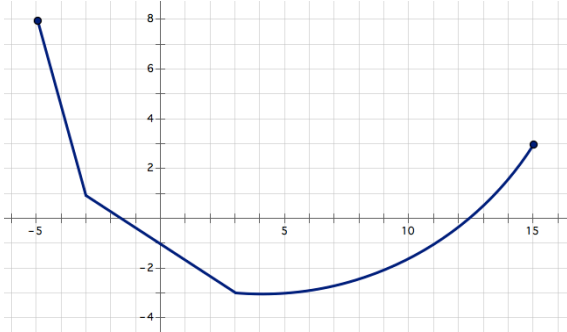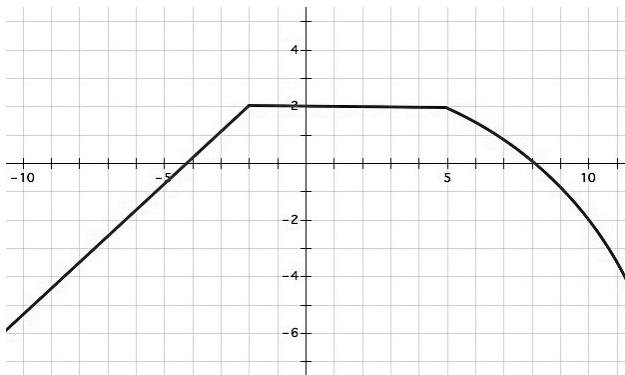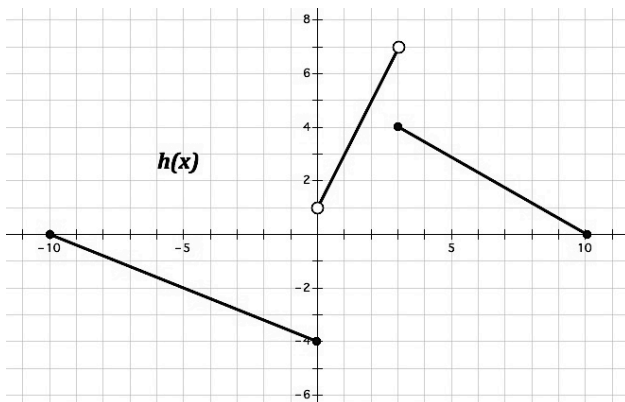
5. What is the definition of a function?

6. Give an example of a function in the following representations:

    (a) Table   (b) Ordered Pairs

    (c) Map   (d) Graph

    (e) Equation

7. Give an COUNTER EXAMPLE of a function in the following representations:

   (a) Table   (b) Ordered Pairs

    (c) Map   (d) Graph

    (e) Equation

Given the descriptions below, sketch a possible graph of the function. There is more than one possible correct answer.

8.
    a. Domain contains all Real numbers between -2 and 3.
    b. Range contains all Real numbers between 3 and 7.
    c. The function is increasing from -2 to 0 and decreasing after 0.
   d. The function is not continuous at every point.
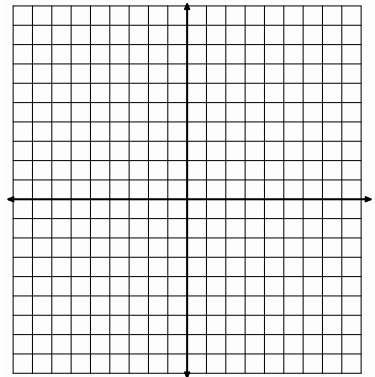
9.
    a. The function has a minimum at -5.
    b. The function has a maximum at 8.
    c. The function has two intervals on which it is decreasing and one interval on which it is increasing.
    d. The Domain of the functions contains all Real numbers from 1 to 9.
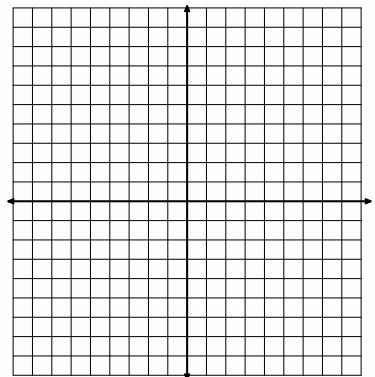
10.

    e. This function is not continuous anywhere.

    f. The function contains only seven elements in its domain.

    g. The values of the domain are between -10 and 2.

    h. The values of the range are between -1 and 1.
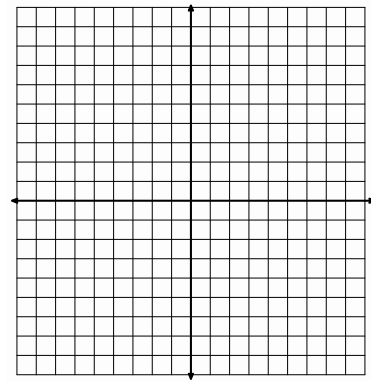
11. List the key features of a linear function

12. List the key features of an exponential function

13. List the similarities and differences between the key features of linear and exponential functions.