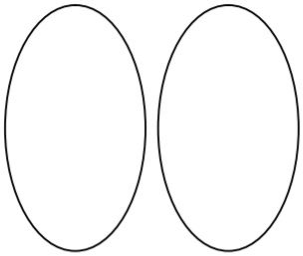
Name: _____

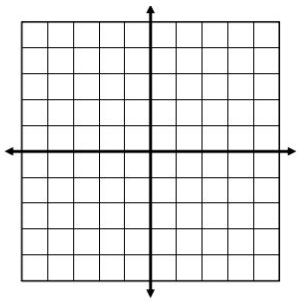
Functions & Relations - Week 3 - Assignment

1) Find the domain and range, then represent as a table, mapping, and graph.

{(-5, 4), (-4, -1), (-2, 1), (0, 4), (1, 3)}

x	y





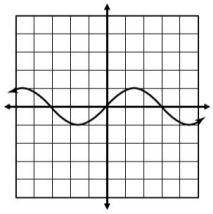
Domain = _____

Range = _____

Identify the domain and range. Does the graph represent a function?

2) Domain: _____

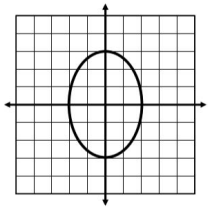
Range: _____



Function: yes or no (circle one)

3) Domain: _____

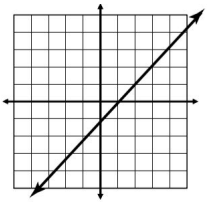
Range: _____



Function: yes or no (circle one)

4) Domain: _____

Range: _____



Function: yes or no (circle one)

Identify if the relation is a function?
If it is a function how do you know? If it is not a function, how could you fix it to make it a function?

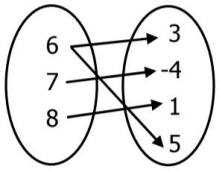
5)

{(-3, 2), (-2, 2), (1, 2), (-3, 1), (0, 3)}

6)

x	y
-2	-3
-1	0
5	5
4	3
-1	7

7)



Solve for the outputs (y-values or range) with the given inputs (x-values or domain). Circle your answers.

8) Given $g(x) = -x^2 + 10x - 3$, find the following.

a. $g(9)$

b. $g(-1)$

c. $g(-3)$

9) Given $h(x) = |1 - 7x|$, find the following.

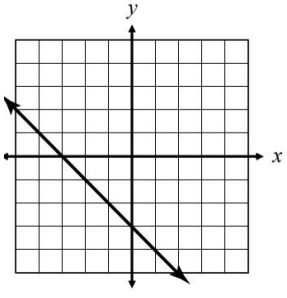
a. $h(1)$

b. $h(-7)$

c. $h(9)$

10)

The following represents the graph of a function f(x). Find each of the following.



a. f(-4)

b. f(2)

c. f(0)