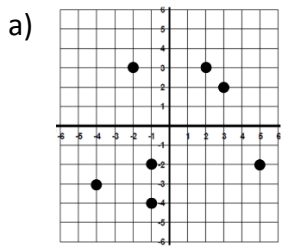


Math 8: Unit 4 Study Guide (Complete and check answers on blog. Test is Tuesday, January 19.)

1) What is a function?

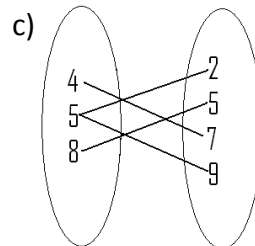
2) What are the different ways that a function can be represented?

3) For each of the following, write whether or not it is a function and how you know.

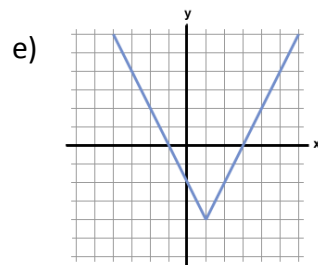
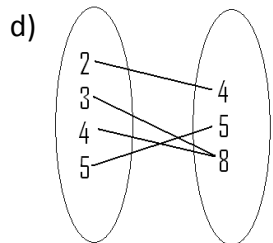


b) 

x	y
-2	-2
-1	2
0	6
1	10
2	14



d)  $y = 5x - 8$



f)  $x = 3$

g) 

x	y
3	1
4	2
6	3
3	4
4	5

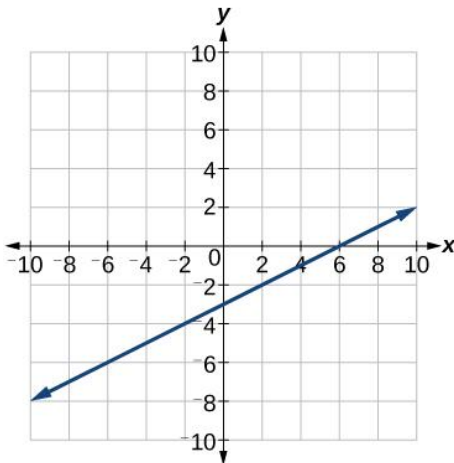
4) Complete the function table below:

$x$	1		5	8	9
$y$	0	15	24	63	80

Equation: \_\_\_\_\_

5) Given inputs of  $\{2, 4, 6, 8\}$  name the domain and range of the function:  $y = \frac{x}{2} - 7$

6) For the function graphed below, what is the output when the input is -2?



7) If the relationship between the number of texts you send and your cell phone bill was graphed, which variable should be graphed on the  $x$ -axis? Why?

8) At a football game, the winner is determined by which team scores more point. Identify the dependent and independent variables for this situation.

9) Harold is raking lawns to earn spending money. The fee he charges for raking a lawn is calculated based on how long it takes to rake it. Identify the dependent and independent variables for this situation.