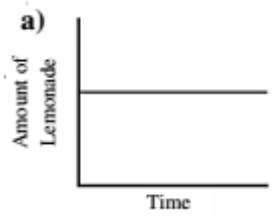
Name: _____

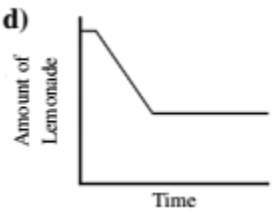
Homework LT 2.1 I can demonstrate understanding of the definition of a function and can determine when relations are functions given a graph, table or real-world situation.

Pg 71 #3ad Ian and his friends were sitting on a deck and drinking lemonade. Each person had a glass with the same amount of lemonade. The graphs below show the amount of lemonade remaining in each person's glass over a period of time. Write sentences that describe what may happen for each person.

a)



d)



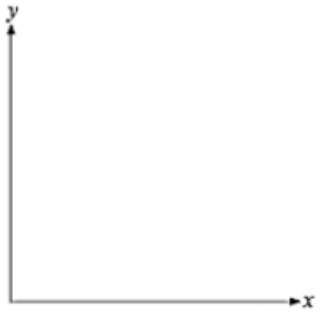
Pg 71 #4cd Sketch a graph to model each of the following situations

C: Bus

A group of people rent a bus for a day. The total cost of the bus is shared equally among the passengers.

x = the number of passengers.

y = the cost for each passenger in dollars.

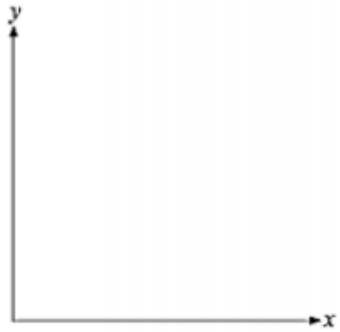


D: Car value

My car loses about half of its value each year.

x = the time that has elapsed in years.

y = the value of my car in dollars.

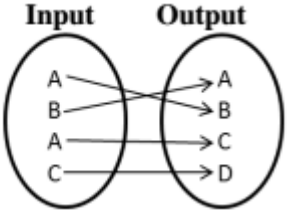


Pg 72 #2) In your own words, describe a function?

Pg 72 #3) Give three real life examples that are functions

Pg 72 #6, 8, 11) State whether or not it is a function and if not change it so that it is.

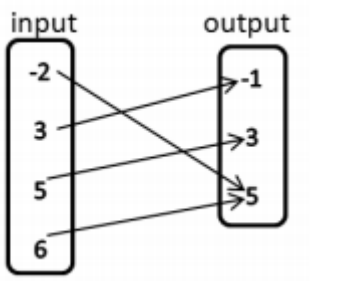
6)



8)

x	y
1	4
4	7
3	10
4	13

11)



Pg 72 #14, 17, 20 For each of the situations, determine whether it is a funtion or not. Explain your reasoning.

14) Input: Age
Output: Names of Students who are that age

17) $\{(-1,6),(0,4),(-4,0),(-1,-6),(-3,-8)\}$

20) Your age and your weight on your birthday each year.