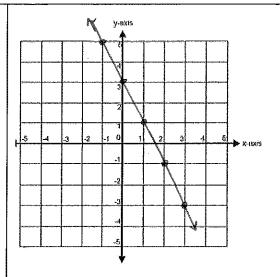
Study Guide - MT6 Functions

1. M.8.F.2 Fill in the table and graph the function y = -2x + 3

Х	у
-1	5
Ο.	3
1	⁶⁹ anana.
2	
3	- 3

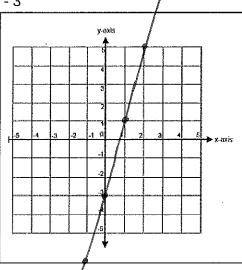
$$y = -2(-1)+3$$

 $y = 2+3=5$



2. M.8.F.2 Fill in the table and graph the function y = 4x - 3

X	у
-1	
0	- 3
1	Vennegour
2	5
3	9



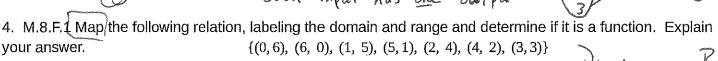
3. M.8.F.1 Map the following relation, labeling the domain and range and determine if it is a function. Explain your answer. $\{(-2,3), (-1,3), (0,3), (1,3), (2,3), (3,3)\}$

DOMAIN: -2, -1,0, 1,2,3

RANGE: 3

FUNCTION? Yes) or No (explain)

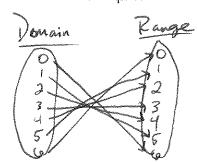
Each input has one output



DOMAIN: 0, 1, 2, 3, 4, 5, 6

RANGE: 0, 1,2,3,4,5,6

FUNCTION: Yes or NO (explain) Each input has one output



5. Describe the relation given in the table. Explain.

4
6
6
7
8
10
9
11

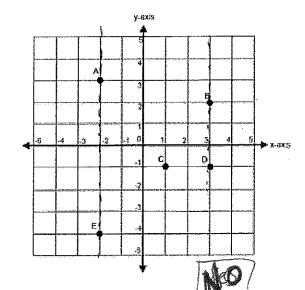
Domain: 3, 4, 5, 6, 10, (1

Range: (4, 7, 8, 9, 10, 11)

Function? Yes or

No (explain): Input (5) has more

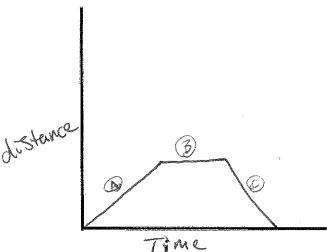
then one output.



Is the relation below a function or not?

M.8.F.5

- 7. A. Sketch a graph to show your walk from home to the park and back, using time and distance away from home as your variables.
 - Label each axis and Title your graph. В.
 - Label each part of your graph according to the story you are telling.



A.) Walking away from home @ constant rate B.) Arrive at the park and rest

Does not Passes the Vertical line test.

- () walk back home @ Constant rate

Choose your own story (the temperature over the course of the day, the number of customers at a business, the money you earned and spent over at a summer job) . Title your graph and label your axes. Tell what is happening in each interval on your graph.

Herahay # 68 toward Customers at Pestaurant Ľ. Time of day

A. Customers Come in for Coffee

Move

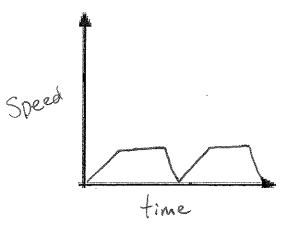
B. No Customers visit between bfast and lunch

C. Lunch rush-many customers fix the restourant D. Some customers leave after lunch

E Foom Stays Filled with Customers until dinner F. Custoners leave after dinner

9. M.8.F.5 Sketch a graph representing the following situation: Be sure to label your axes!

The speed of a car as it travels from home to work.



- 10. For each situation below, determine which quantity/variable is independent and which is dependent.
 - A. The amount of water in a bathtub and the length of time the water has been running

Independent: Length of time Dependent: Amount of Water water is running

B. The money earned and the number of hours worked.

Independent: # of hows Norked Dependent: # Carned

C. The temperature outside and the month.

Independent: Month Dependent: Temperature outside

D. Someone's age and the year he was born.

Independent: Brth War Dependent: Age

11. Mrs. Hall has organized some data into the following table.

She is trying to use one column as an input to help her access the customer information.

First	Lis	Goule	Flune	Custan
Naire	llame		Rumber	I
Steve	Jenes	N	231-4436	100
Michelle	Adams	F	432-6388	101
Tom	Harris	M	228-0133	102
Jule	Adams	F	302-9521	103
Terneri	Mandeu :	F	227-1111	104
John	Joseph	N	214-0001	103
stephanle	Williams	F	432-0055	106
Mark	Cones	M	262-5175	107
Omar	Ramirez	M	316-9932	108
Steve	McIntosh.	N	550-8876	109

Would it work to use a customers first name as the input? Why or why not?

No, there are two steves.

12. Match each story below with ONE graph.

1) Label the axes

2) Explain your reasoning on matching

Story 1: The balance in a checking account over time.

Story 2: Weekend temperature over time.

Story 3: Your heart rate as you exercise.

resting H.R.

