

## 2.1 Re-Teach Worksheet

Name Key

### Intermediate Algebra

**Learning Target:** 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.

1. Is the relation  $\{(-6, 1), (2, -4), (3, 2), (6, 1)\}$  a function? Explain your reasoning.

Yes, for every input there is only 1 output  
(x) (y)

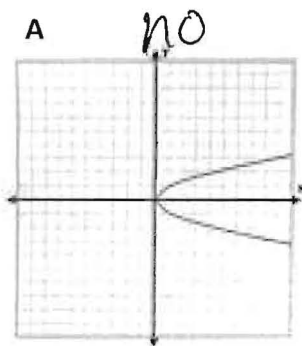
2. Is the relation  $\{(-3, 2), (1, 5), (0, 2), (1, -7)\}$  a function? Explain your reasoning.

NO  $x=1$   $y=5, -7$ , 1 input has 2 outputs

3. Add one ordered pair to the following table  
 a. on line **A** that keeps the relation a function.  
 b. on line **B** that makes the relation not a function.  
 c. Explain your solutions.

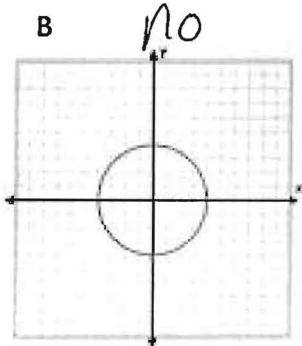
	x	y
	-3	4
	-2	-1
	7	3
	0	2
<b>A</b>	1	6
<b>B</b>	7	-7

4. State which of the following are functions and which are not. Explain your reasoning.



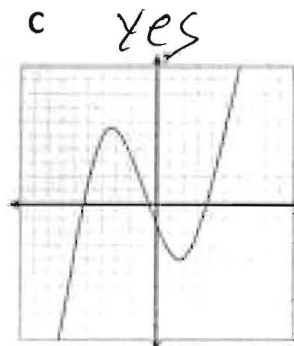
Explain:

1 input has 2 outputs



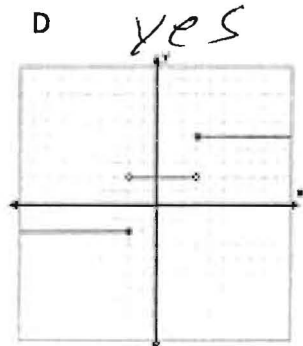
Explain:

1 input has 2 outputs



Explain:

Yes. Every input has only 1 output



Explain:

1, input has 1 output

Given each input and output, determine whether the relation is a function. Explain your reason.

5. Input: Name  
Output: Social Security Number

Yes or No

Explain:

no depends name you use  
 Every one has a different Social Security number

6. Input: Fingerprint  
Output: Eye Color

Yes or No

Explain:

Everyone has different fingerprints

7. Input: Eye Color  
Output: Fingerprint

Yes or No

Explain:

Finger prints are different