

## 8.F.1

## Practice Function Identification

Determine if the following tables, graphs, or equations are functions. Explain your reasoning.

1.

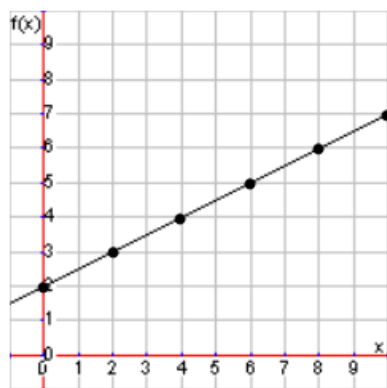
x	-3	-1	0	2	4
y	9	1	0	4	16

2.

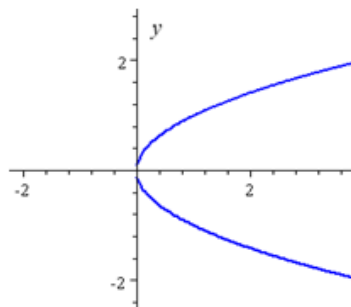
x	3	3	4	4
y	9	-9	16	-16

3.  $y = 4x + 2$ 4.  $y^2 = x$ 

5.



6.



7. Input: Hamza's age (on his birthday)  
Output: Hamza's height

8. Input: Hamza's height  
Output: Hamza's age (on his birthday)

8.F.1

Practice Function Identification **ANSWERS**

Determine if the following tables, graphs, or equations are functions. Explain your reasoning.

1. **Yes, one output for every input**

x	-3	-1	0	2	4
y	9	1	0	4	16

2. **No, two outputs for an input. For example, input 3 could be either 9 or -9.**

x	3	3	4	4
y	9	-9	16	-16

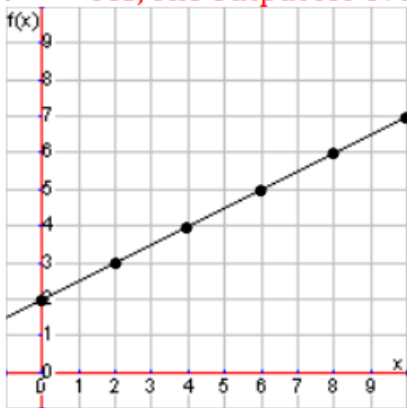
3.  $y^2 = x$

**No, there will be two outputs for a single input. For example, input 4 has outputs 2 or -2.**

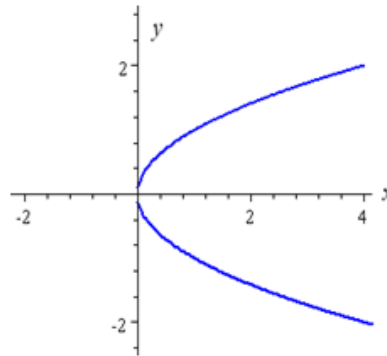
4.  $y = 4x + 2$

**Yes, one output for every input.**

5. **Yes, one output for every input**



6. **No. Input 4 has an output of 2 and -2**



**Yes. On Arjun's 10<sup>th</sup> birthday, you know his height.**

7. Input: Hamza's age (on his birthday)  
Output: Hamza's height

**No. Arjun may be 5'10" on several birthdays.**

8. Input: Hamza's height  
Output: Hamza's age (on his birthday)