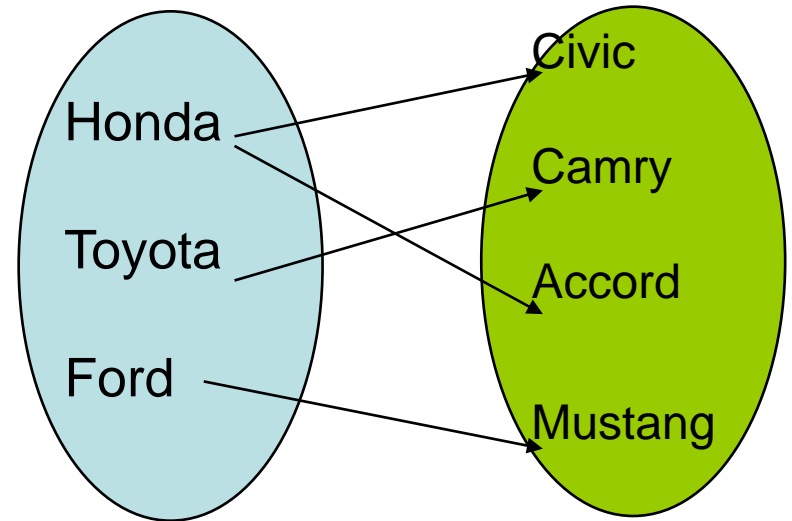
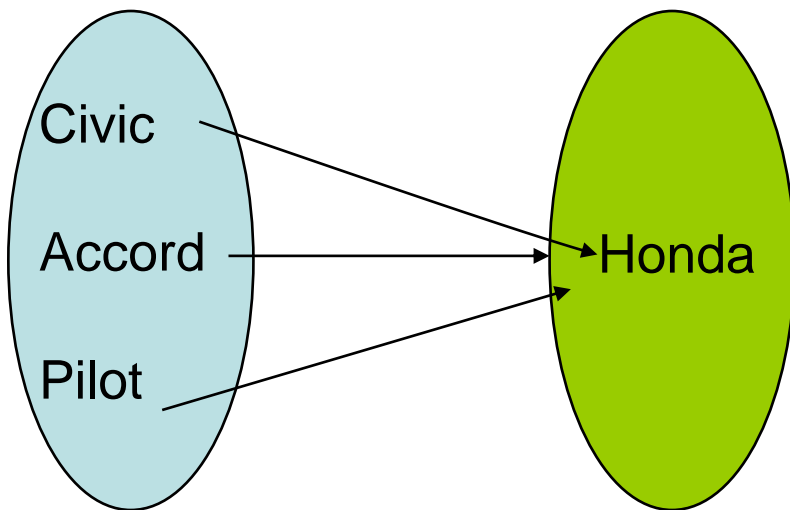


- Given the **model** of a car, can you determine the **make** (who makes the car)?
- Given the **make** of the Car, can you determine the **model**?



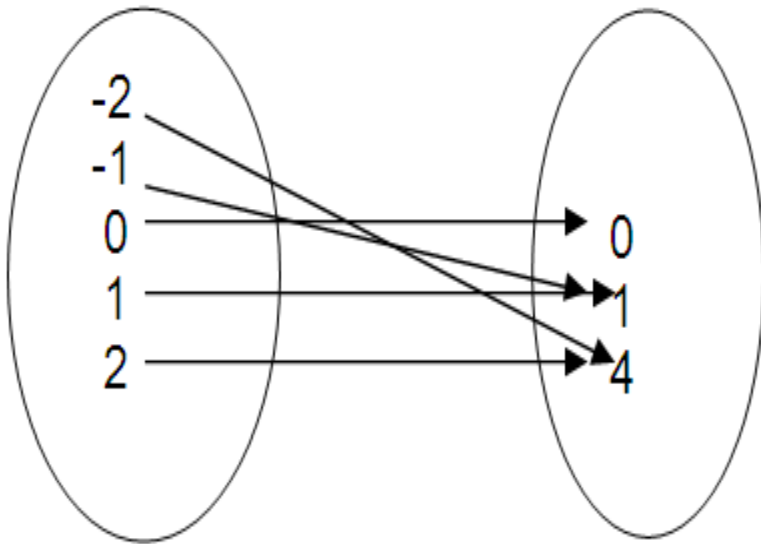
# Functions

Function or Not?

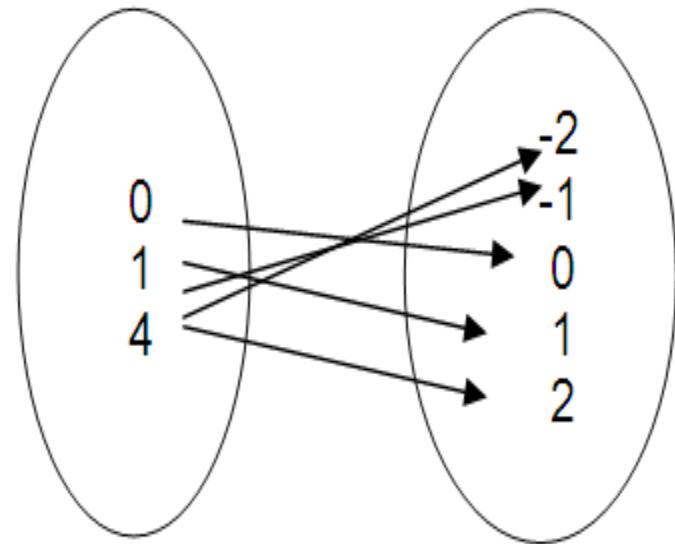
That is the question...

# Examples and Non-Examples

Function

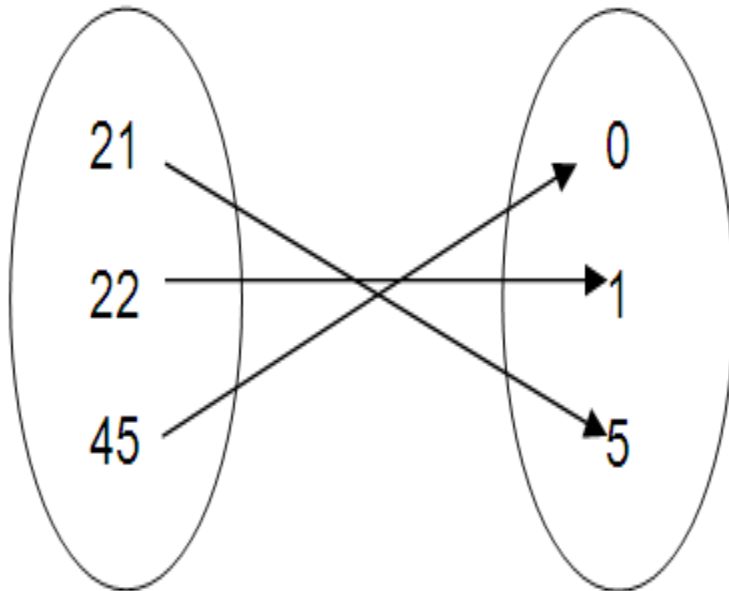


Not a Function

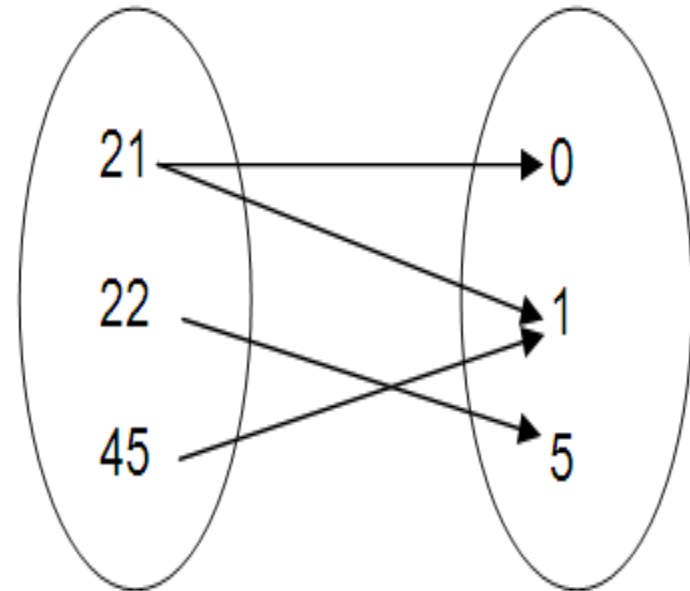


# Examples and Non-Examples

Function

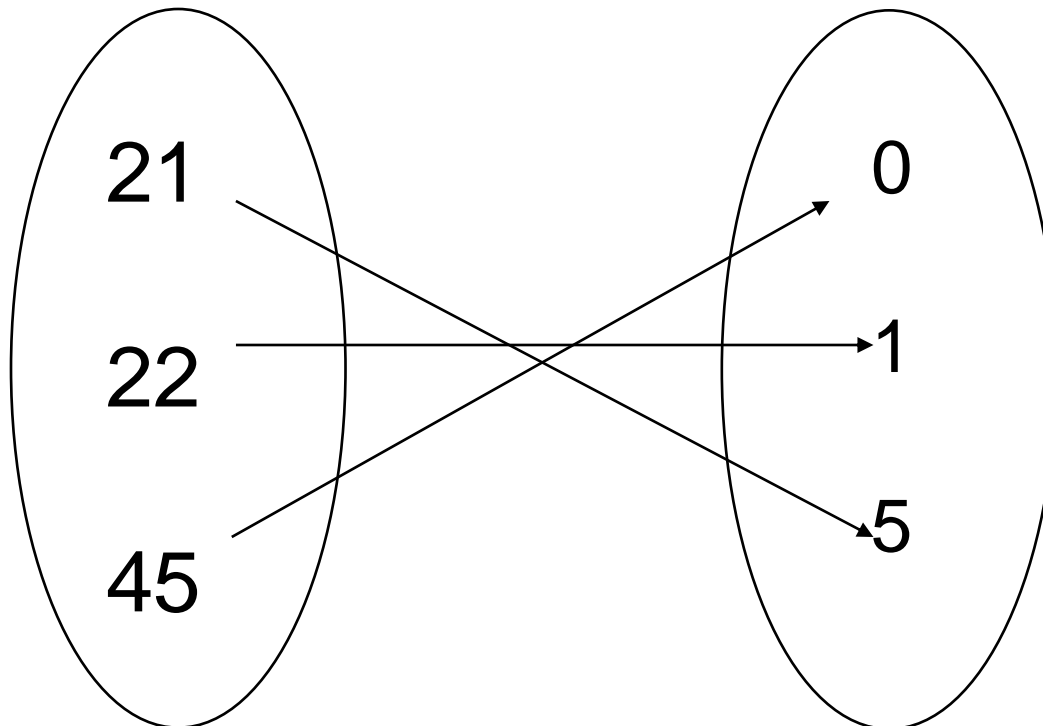


Not a Function

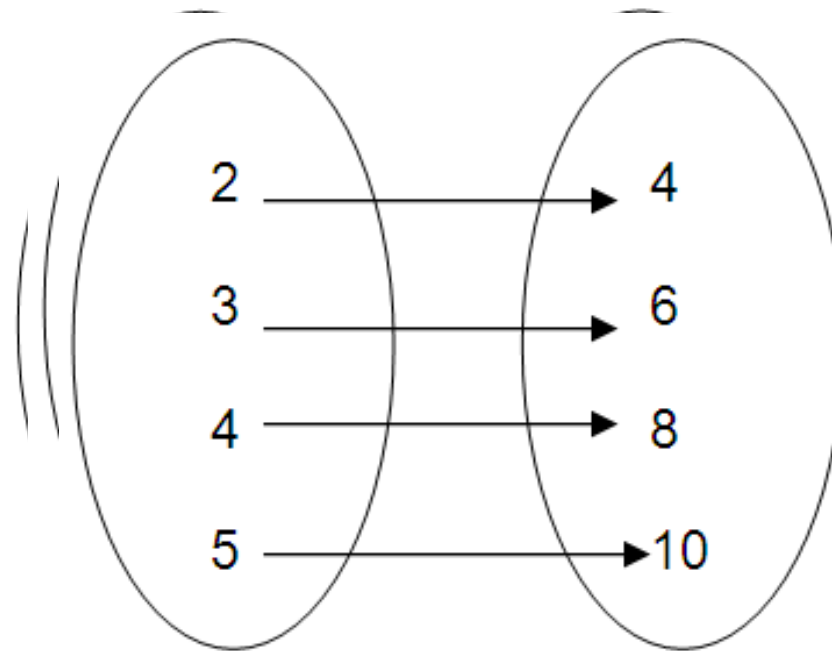


# Criteria for testing a Function

- Every value in the first set has only one value in the second set



# Function or Not?



# Function or Not?

$x$	$y$
21	1
22	0
45	5

# Function or Not??

x	y
21	0
21	1
22	5
45	0

Notice that  $x = 21$  has 2 different values for  $y$  (0 and 1)

# Function or Not?

x	y
-1	-3
0	1
1	5
2	9

**What happens when  
we graph this?**

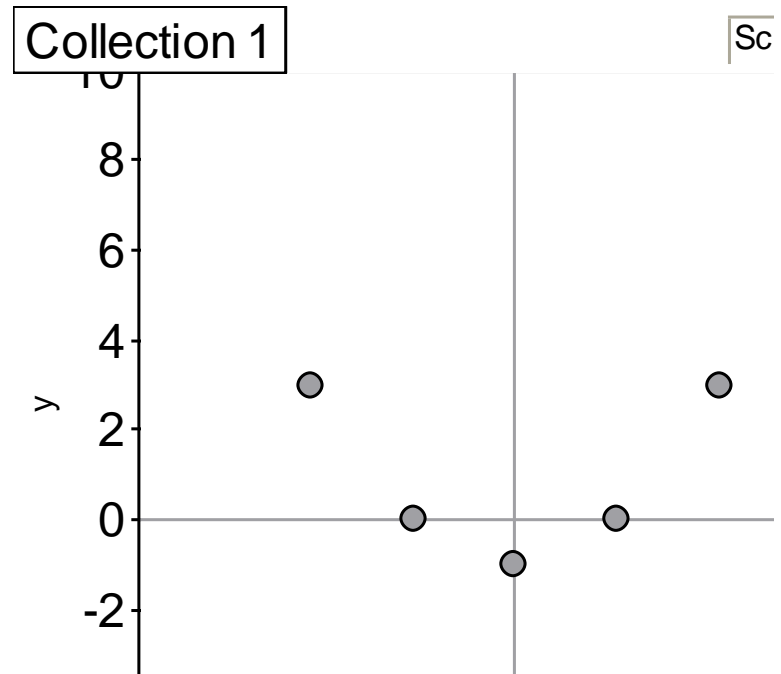


# Function or Not?

x	y
-2	3
-1	0
0	-1
1	0
2	3



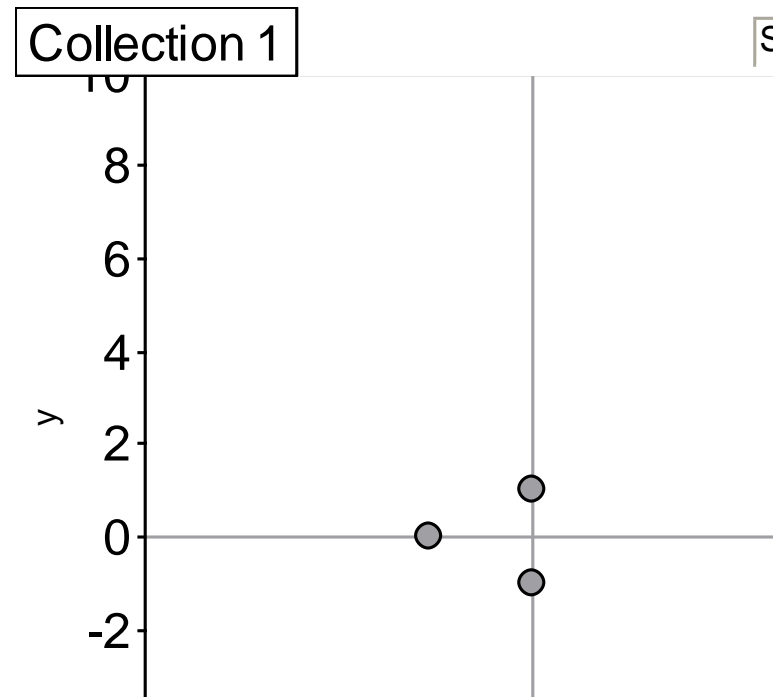
What happens when we graph this?



# Function or Not?!

x	y
-1	0
0	-1
0	1
3	2
3	2


What happens when we graph this?



# Function or Not?

x	y
0	3
2	0
5	-1

x	y
1	1
1	7
2	2
1	6

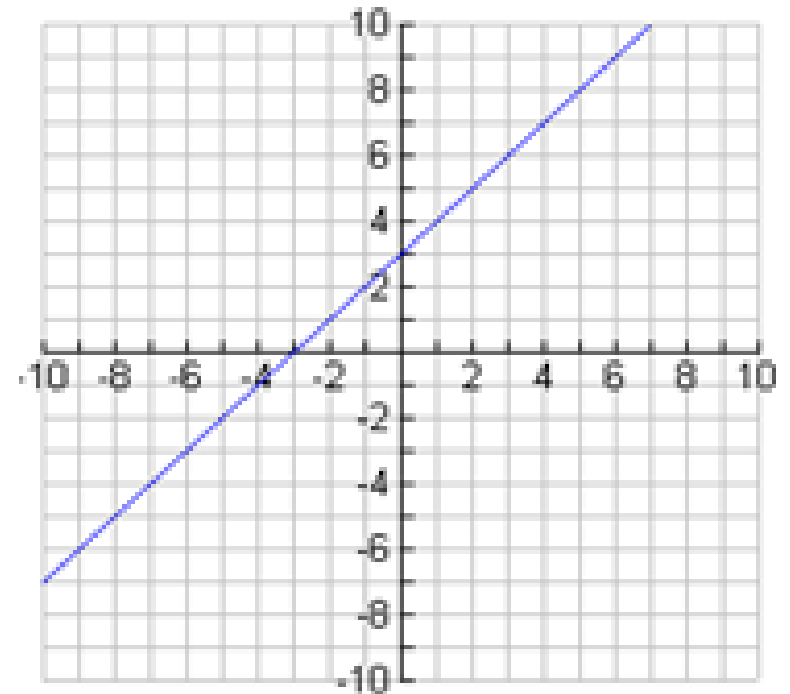
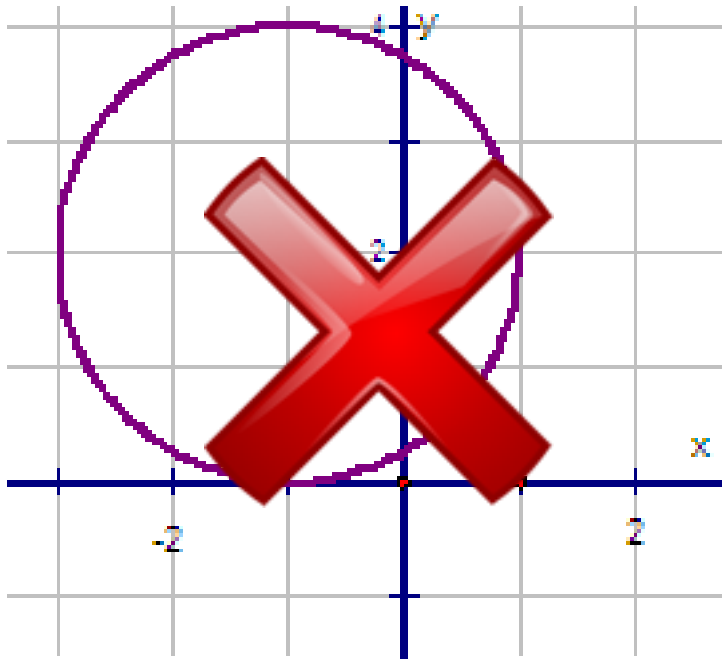


x	y
-2.5	1
-2.5	0
-2.5	3
-2.5	-5

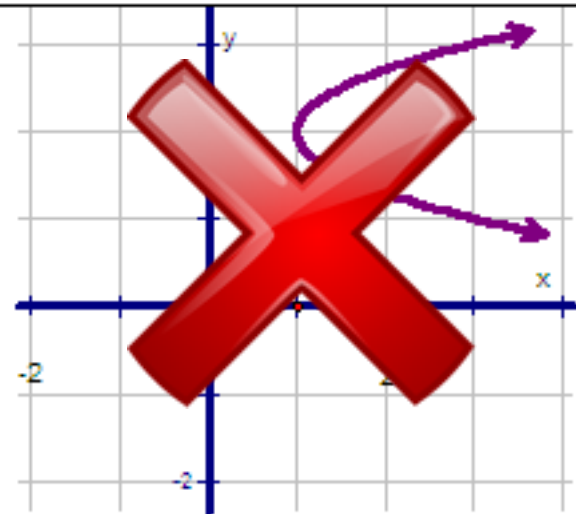
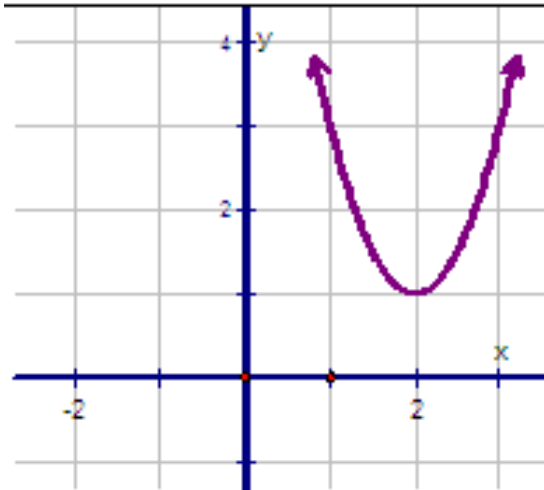
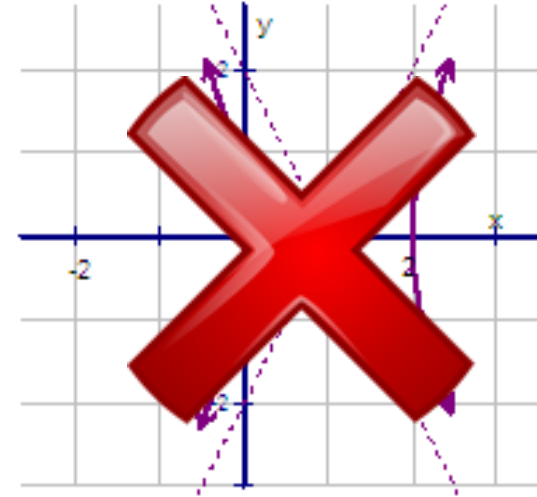
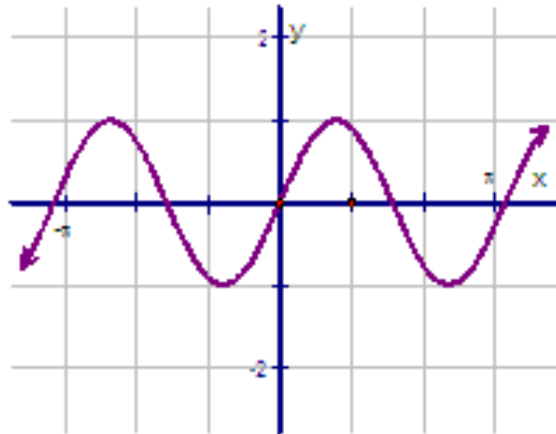


x	y
6	5
8	4
9	4.5
11	5

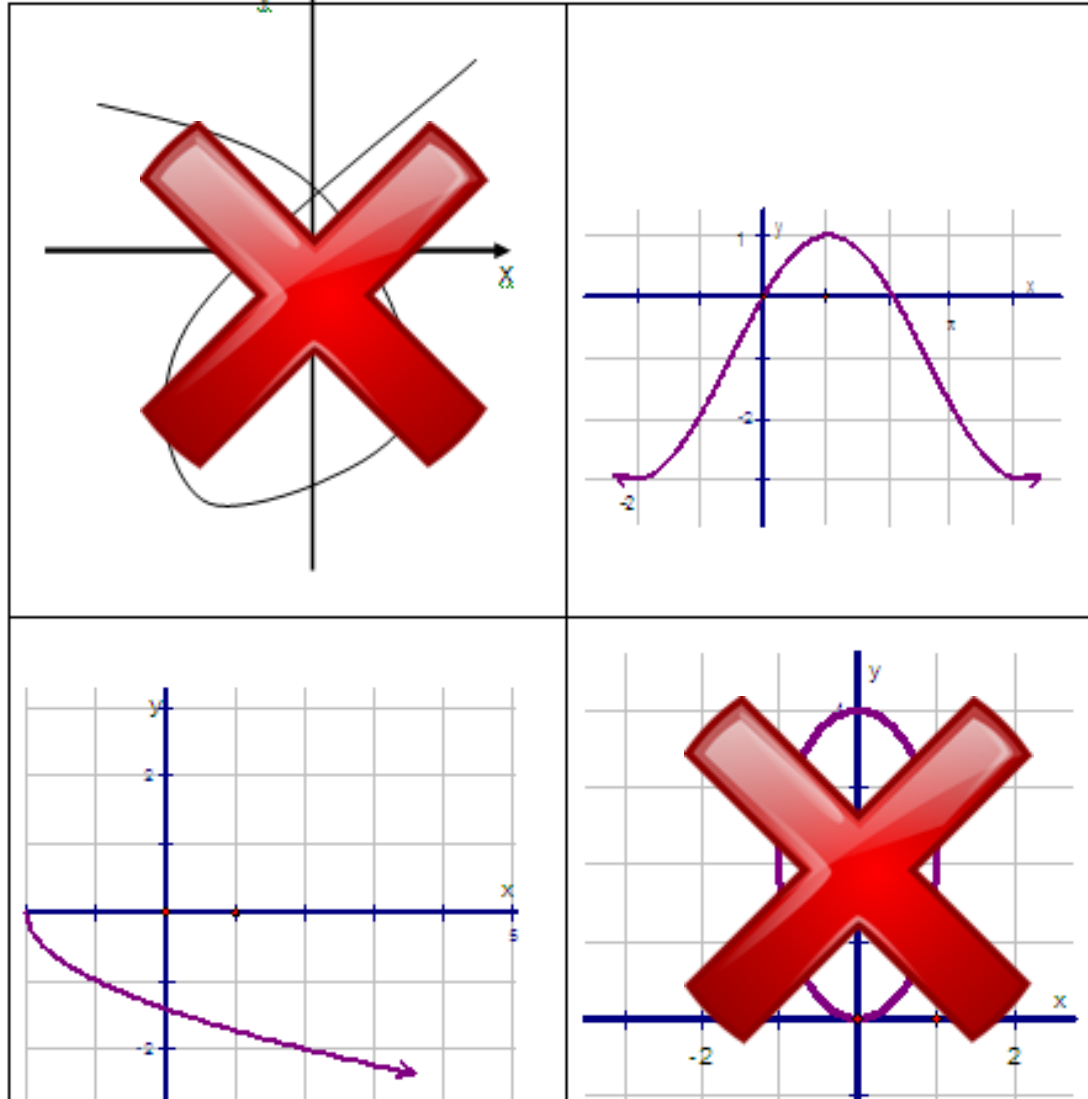
# Function or Not?



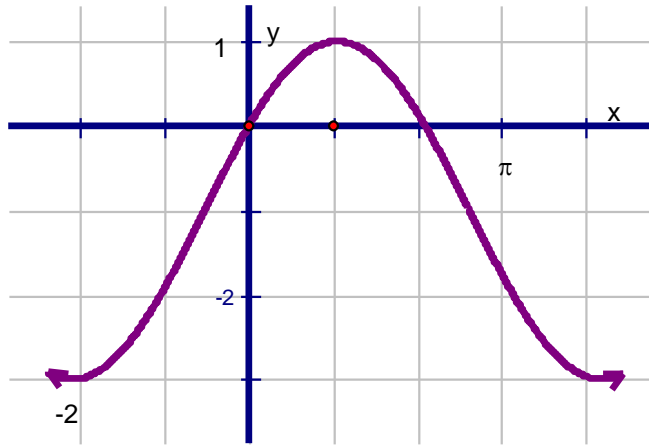
# Function or Not?



# Function or Not?

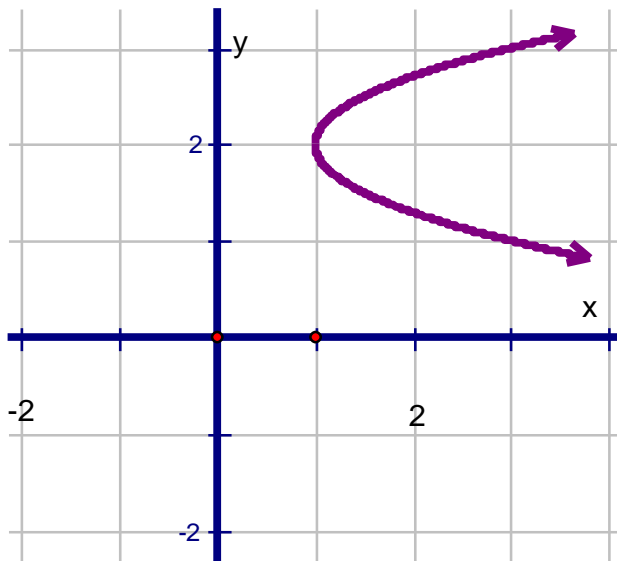


# Determining a Function



Does a Vertical Line cross the graph at more than one point?

If NO  $\rightarrow$  the graph is a function



This is the  
**VERTICAL LINE TEST**

# Assignment

- Complete the Frayer Model on the back of the **Function of Not?! Worksheet** to summarize the concept **Function**