

State the domain and range of each relation.

x	y
2	3
5	5
-3	5
3	4
3	3

x	y
5	2
-2	12
6	54
-23	9
2	6

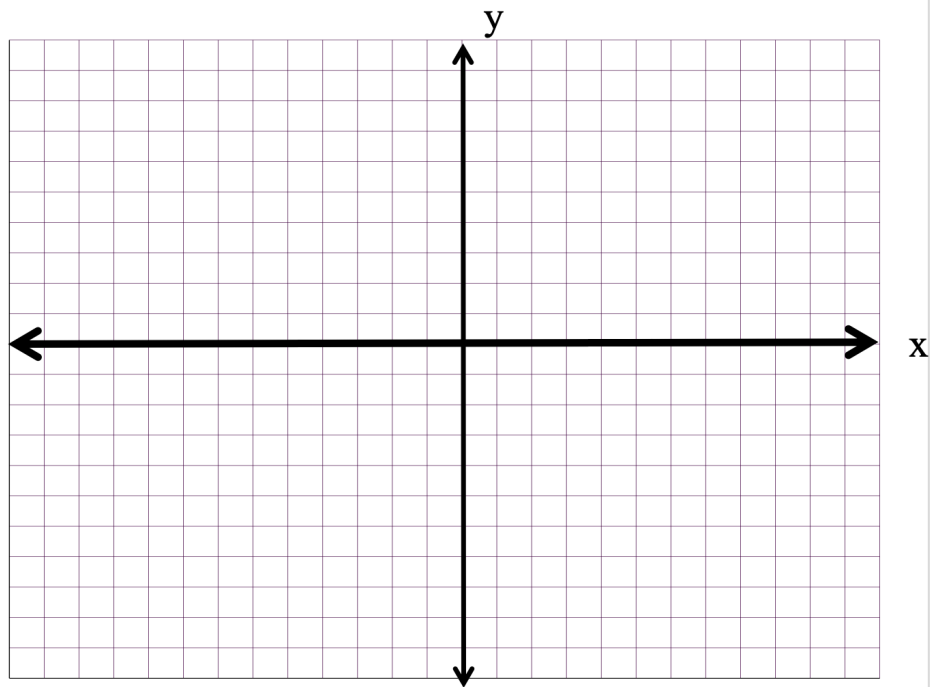
x	y
34	3
2	7
3	8
-25	-5
8	44

Please Complete the table for each function and conduct the vertical line test for the function.

### The Vertical Line Test

$$Y = 5x - 3$$

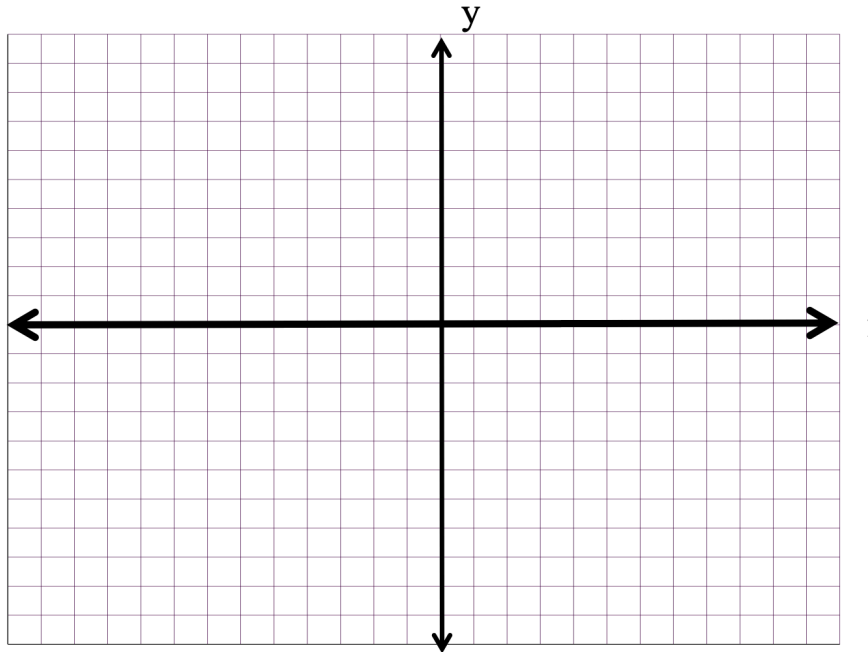
x	y
-2	
-1	
0	
1	
2	



## The Vertical Line Test

$$Y = 2x^2 + 1$$

x	y
-2	
-1	
0	
1	
2	



### 3.6 – Function Notation

Function notation also defines the value of  $x$  that is to be use to calculate the corresponding value of  $y$ .

$$f(x) = 2x - 5$$

find  $f(3)$ .  
find  $f(-3)$ .

$$f(x) = 4x - 1$$

find  $f(2)$ .  
find  $f(-2)$ .

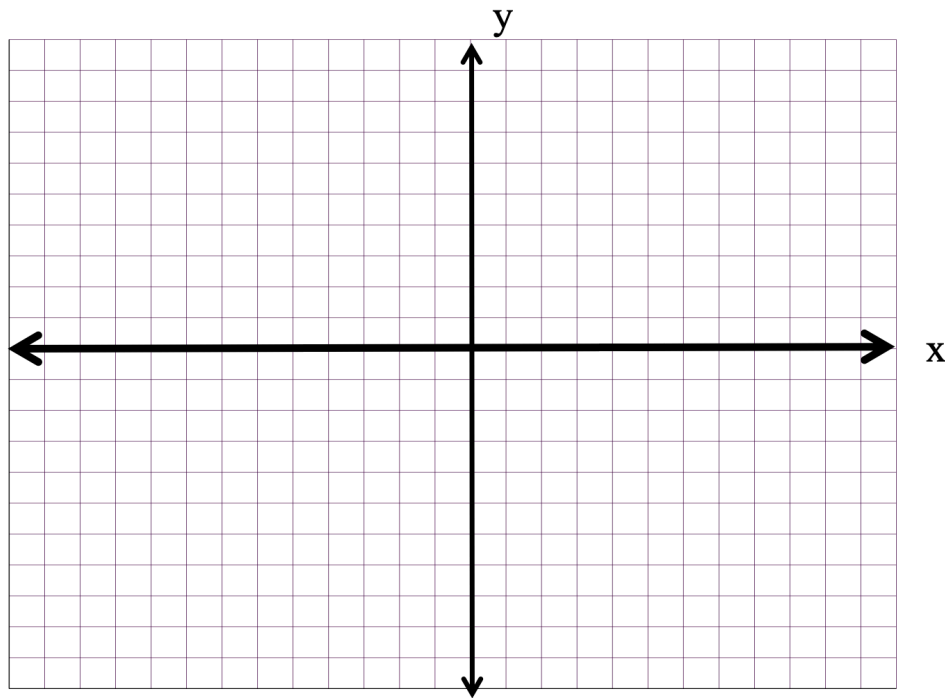
$$g(x) = x^2 - 2x$$

find  $g(-3)$ .  
find  $g(3)$ .

## The Vertical Line Test

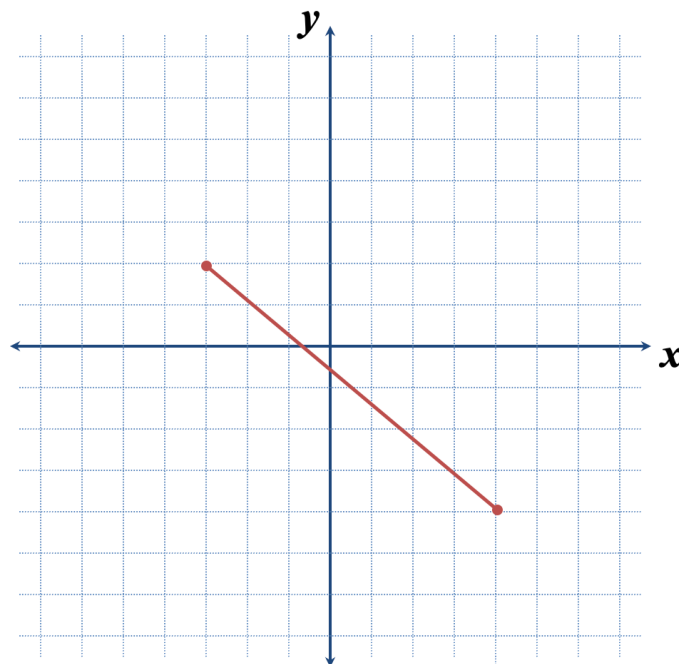
$$X = Y^2 - 1$$

x	y
-2	
-1	
0	
1	
2	



## Domain and Range from Graphs

Find the domain and range of the function graphed to the right. Use interval notation.

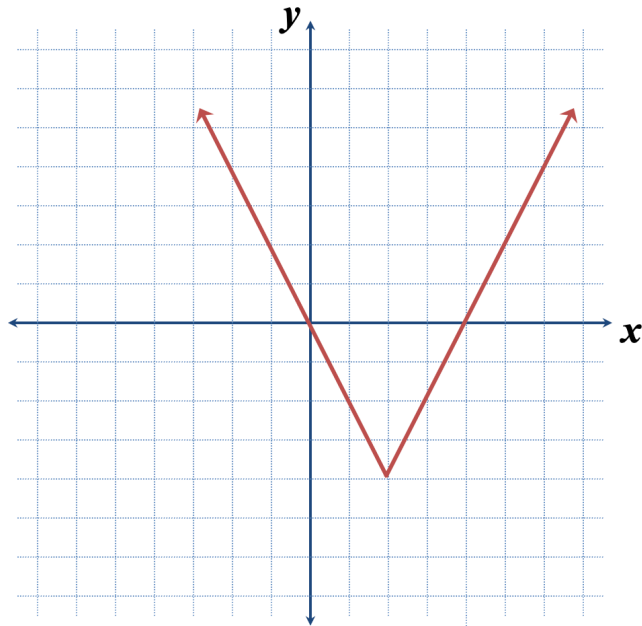


Domain:

Range:

## Domain and Range from Graphs

Find the domain and range of the function graphed to the right. Use interval notation.

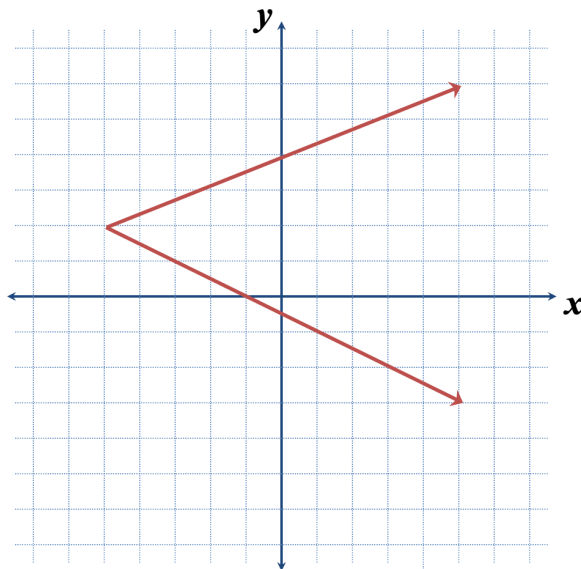


Domain:

Range:

## Domain and Range from Graphs

Find the domain and range of the function graphed to the right. Use interval notation.



Domain:

Range: