## What Are Functions?

1 Fill in the blank.

The input set of a function is called the domain and the output set is called the range

True or False?
Functions aren't allowed to have

X	True	False
	1100	1 4100

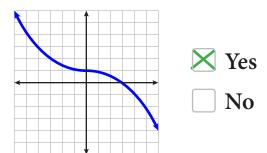
"one-to-many" relations.

Complete this function table.

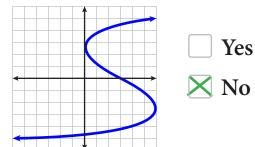
$$y = 2x - 1$$

1		
Input	Output	
X	y	
3	5	
2	3	
1	1	
0	-1	
-1	-3	

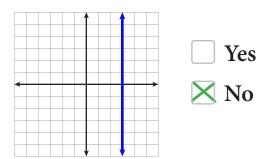
4 Is this a function? (Hint: Use the vertical line test.)



5 Is this a function? (Hint: Use the vertical line test.)



Is this a function?
(Hint: Use the vertical line test.)



**7** Evaluate.

Let  $f(x) = x^2 + 1$ What is f(3)?

$$f(3) = 3^2 + 1$$
= 9 + 1
= 10

R Evaluate.

Let 
$$f(x) = x^2 + 3x$$
  
What is  $f(-1)$ ?

$$f(-1) = (-1)^2 + 3(-1)$$

$$= 1 + (-3)$$

$$= -2$$