

Graphing Functions by Plotting Points

When evaluating functions...

we **input** specific values and **output** resulting values

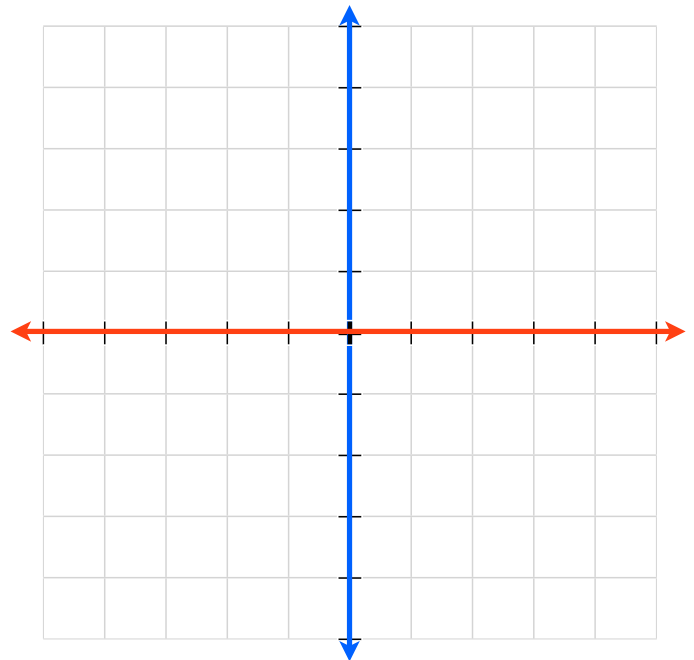
The **input values**, x , are called **domain values**

The resulting **output values**, $f(x)$ or y , are called **range values**

Domain, x	$f(x) = 2x - 1$	Range, $f(x)$, y	(x, y)
-2			
0			
1			
3			

$$f(x) = 2x - 1$$

x	$f(x)$ or y	(x, y)
-2	-5	$(-2, -5)$
0	-1	$(0, -1)$
1	1	$(1, 1)$
3	5	$(3, 5)$



Determine the graph of the following functions.

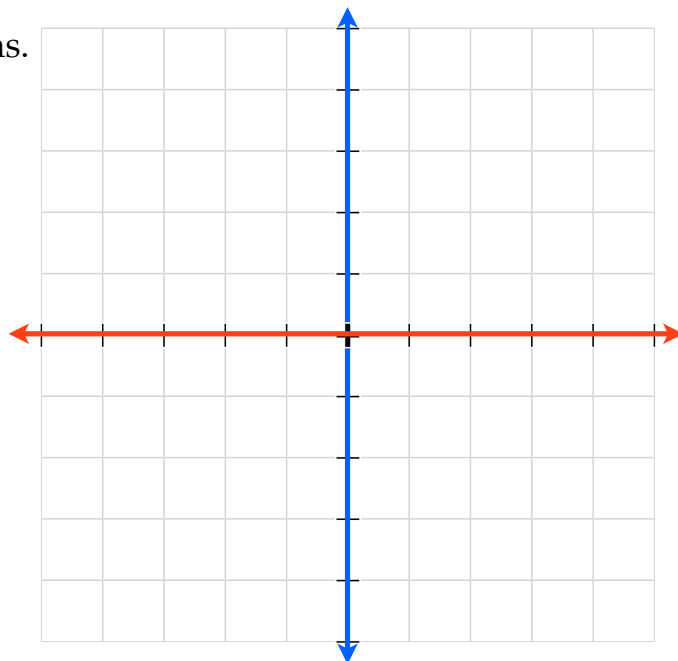
$$f(x) = -x + 1$$

Domain, x	$f(x) = -x + 1$	Range, $f(x), y$	(x,y)
-4			
-2			
0			
2			
4			

Determine the graph of the following functions.

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

x	$f(x)$ or y	(x,y)
-4	5	$(-4,5)$
-2	3	$(-2,3)$
0	1	$(0,1)$
2	-1	$(2,-1)$
4	-3	$(4,-3)$



Determine the graph of the following functions.

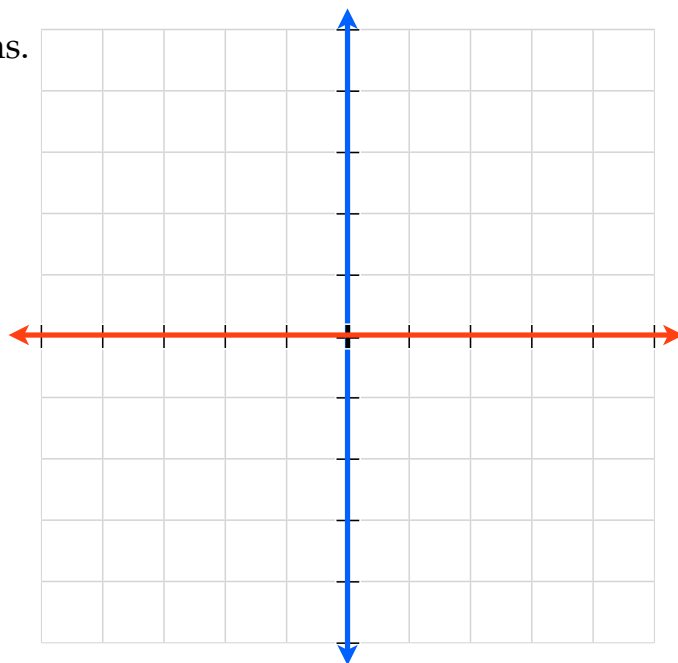
$$f(x) = |x| + 1$$

Domain, x	$f(x) = x + 1$	Range, $f(x), y$	(x,y)
-4			
-2			
0			
2			
4			

Determine the graph of the following functions.

$$f(x) = |x| + 1$$

x	$f(x)$ or y	(x,y)
-4	5	$(-4,5)$
-2	3	$(-2,3)$
0	1	$(0,1)$
2	3	$(2,3)$
4	5	$(4,5)$



Determine the graph of the following functions.

$$f(x) = x^2 - 4$$

Domain, x	$f(x) = x^2 - 4$	Range, $f(x), y$	(x,y)
-3			
-1			
0			
1			
3			

Determine the graph of the following functions.

$$f(x) = x^2 - 4$$

x	$f(x)$ or y	(x,y)
-3	5	$(-3,5)$
-1	-3	$(-1,-3)$
0	-4	$(0,-4)$
1	-3	$(1,-3)$
3	5	$(3,5)$

