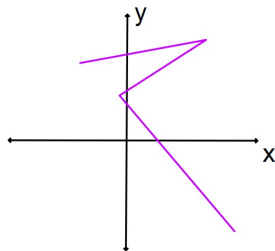


Families of Functions Activity

Is each of these a function?

X	Y
1	5
2	6
3	-2
4	5

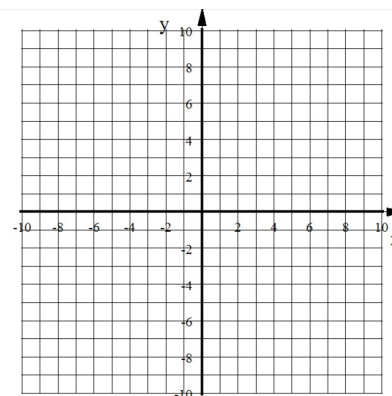
Yes, each x-value produces only one y-value. In other words, no x-value repeats.



No, because the graph fails the vertical line test. This means that there is a vertical line that can touch the graph more than once. Therefore, there is at least one x-value that produces more than one y-value.

A.

X	Y
-2	9
-1	7
0	5
1	3
2	1



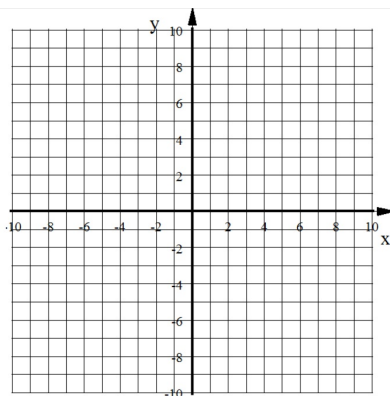
Equation:

Function Name:

3 other points on the graph:

B.

X	Y
-3	9
-2	4
-1	1
0	0
1	1
2	4
3	9



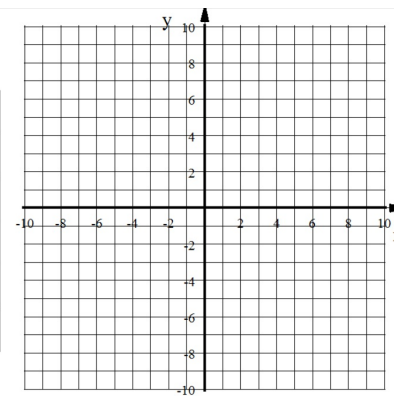
Equation:

Function Name:

3 other points on the graph:

C.

X	Y
0	0
1	1
4	2
9	3
16	4



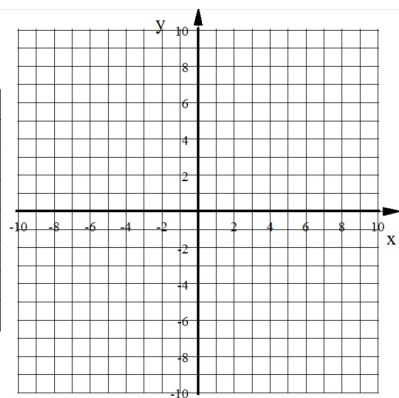
Equation:

Function Name:

3 other points on the graph:

D.

X	Y
-3	0.125
-2	0.25
-1	0.5
0	1
1	2
2	4
3	8



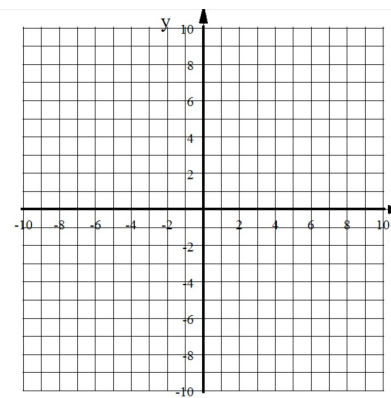
Equation:

Function Name:

3 other points on the graph:

E.

X	Y
-3	3
-2	2
-1	1
0	0
1	1
2	2
3	3



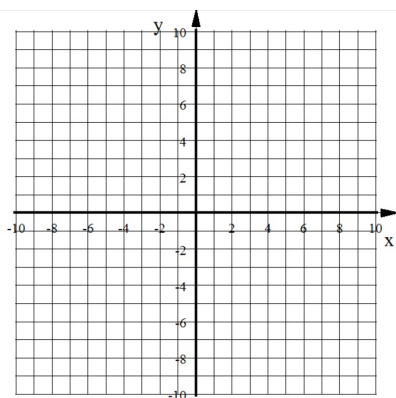
Equation:

Function Name:

3 other points on the graph:

F.

X	Y
-2	4
-1	4
0	4
1	4
2	4



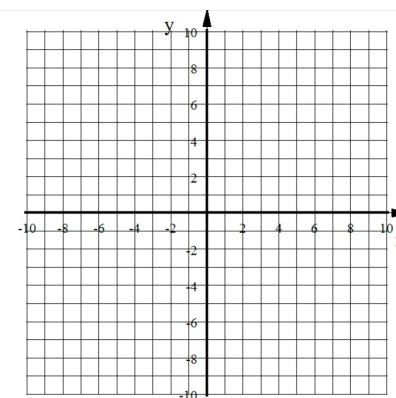
Equation:

Function Name:

3 other points on the graph:

G.

X	Y
-2	-8
-1	-1
0	0
1	1
2	8



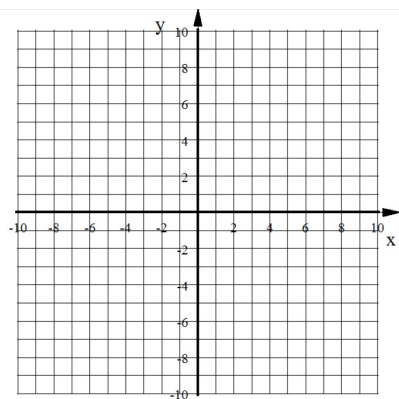
Equation:

Function Name:

3 other points on the graph:

H.

X	Y
-4	-0.25
-2	-0.5
-1	-1
0	<input type="text"/>
1	1
2	0.5
4	0.25



Equation:

Function Name:

3 other points on the graph: