

1.6/1.7 Functions Quiz Study Guide

1.6: Functions as Rules and Tables

- Be able to identify an input output relationship as a function or not and explain why.

Are the following examples functions? If yes, state why. If not state why not.

Ex:

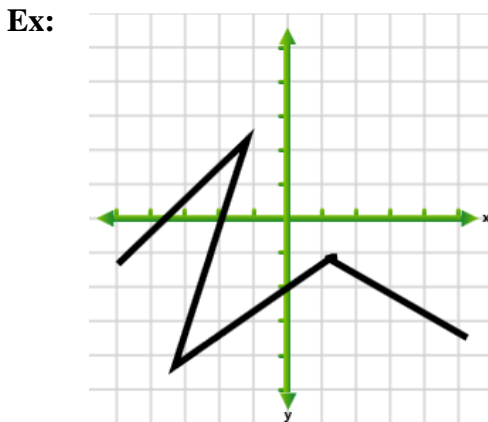
x	y
3	1
2	1
1	1
0	1

Ex:

x	5	7	5	14
y	2	6	9	11

Yes, each input has one output

No, the input 5 has multiple outputs



No, the graph would not pass the vertical line test. This means that an input has more than one output.

- Be able to identify domain and range of a function.

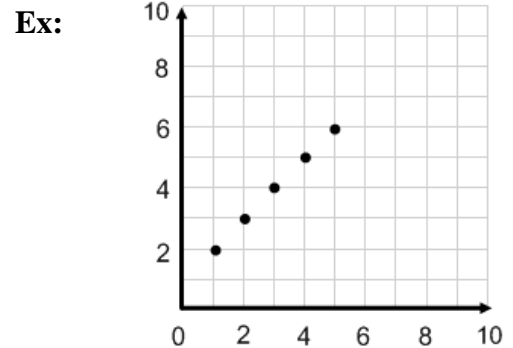
For the functions below, identify the domain and range.

Ex:

Input	Output
0	0
1	2
4	8
6	12

Domain: 0, 1, 4, 6

Range: 0, 2, 8, 12



Domain: 1, 2, 3, 4, 5

Range: 2, 3, 4, 5, 6

- Be able to write a rule for a function given a table or graph.

Write a rule for each function below.

Ex:

x	y
-10	7
-5	5
0	3
5	1
10	-1

$$y = -\frac{2}{5}x + 3$$

Ex:

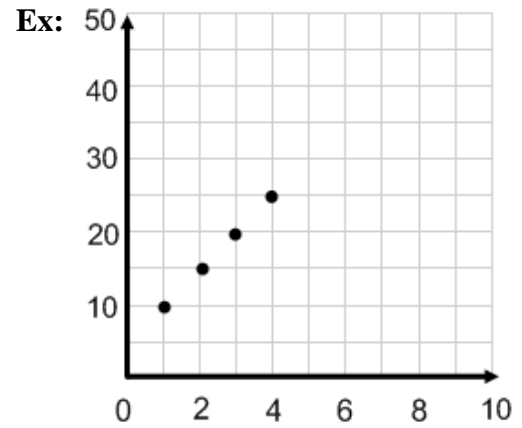
x	y
0	1
2	5
4	9
6	13

$$y = 2x + 1$$

Ex:

x	1	4	7	10
y	1	10	19	28

$$y = 3x - 2$$



$$y = 5x + 5$$

1.7: Represent Functions as Graphs

- Be able to graph a function

Ex: Graph the function $y = 2x + 3$ with a domain of $-2, -1, 0, 1, 2$

x	y
-2	-1
-1	1
0	3
1	5
2	7

