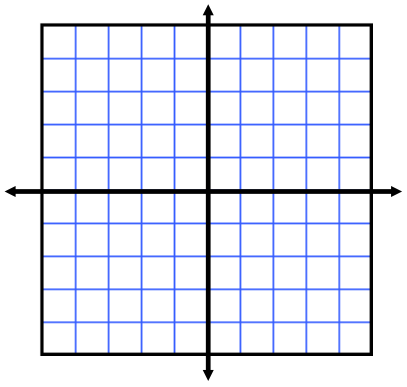
Algebra I

1-7

Represent Functions as Graphs

Label all parts:



You can use a graph to represent a function.

1) In a given table, each corresponding pair of input and output values forms an_____.
2) An ordered pair of numbers can be plotted as a _____.
3) The x - coordinate is the _____(_____).
4) The y - coordinate is the _____(_____).
5) The horizontal axis (_____) of the graph is labeled with the _____.
6) The vertical axis (_____) of the graph is labeled with the _____.

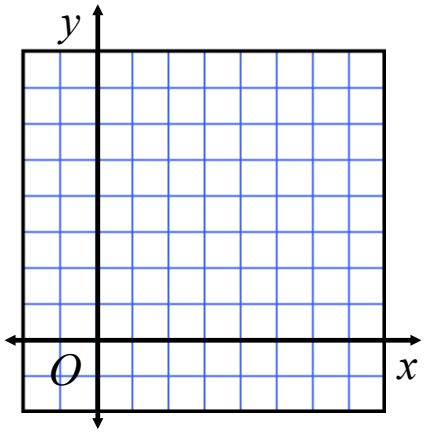
Examples:

1) Graph the function $y = x + 1$ with domain $D = \{1,2,3,4,5\}$.

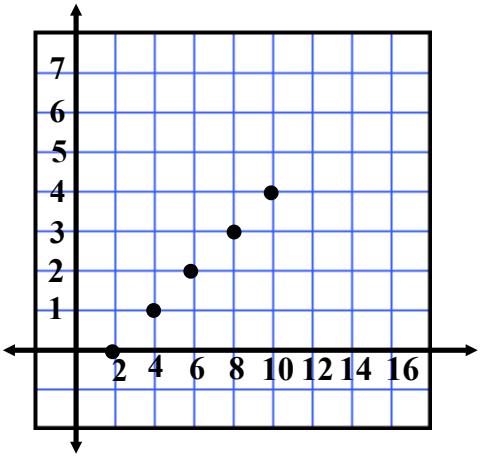
Step 1: Make an _____ table.

x					
y					

Step 2: Plot a point for each _____ (x, y).



2) Write a function rule for the function represented by the graph.
Identify the domain and the range of the function.



Step 1: Make a table for the graph.

x					
y					

Step 2: Find a relationship between the input and the output values.

Step 3. Write a function rule that describes the relationship.

$y =$ _____

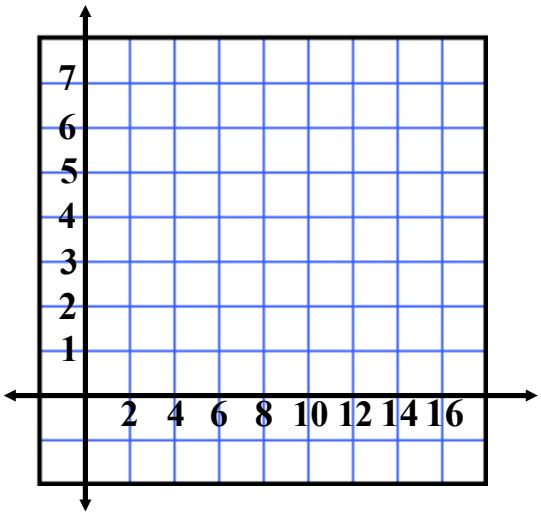
Domain $D =$ _____

Range $R =$ _____

Sample Problem

1) Graph the function $y = \frac{1}{3}x + 1$ with domain $D = \{0, 3, 6, 9, 12\}$

x					
y					



Assignment:
Pg. 46
1, 3 - 13 all,
15, 16, 19,
21, 22