Name:_____ Date:_____

Notes
Algebra Section 1.7
Pages 43-48

Goal: "I will graph ordered pairs (x, y)"
"I will graph functions and visualize trends"
"Determine if a graph represents a function based on the 'vertical line test'"

Graphing Functions:
Example:

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

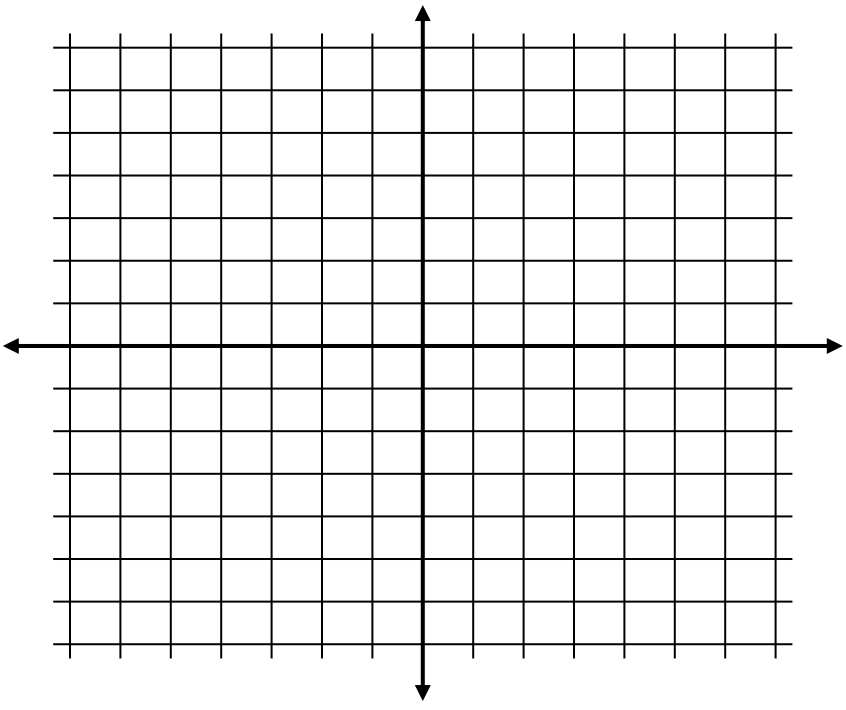
Make a table with the given domain and input each value to find the output and complete the table

Input (x)	0	1	2	3
Output (y)				

Write coordinate pairs with the given domain and range

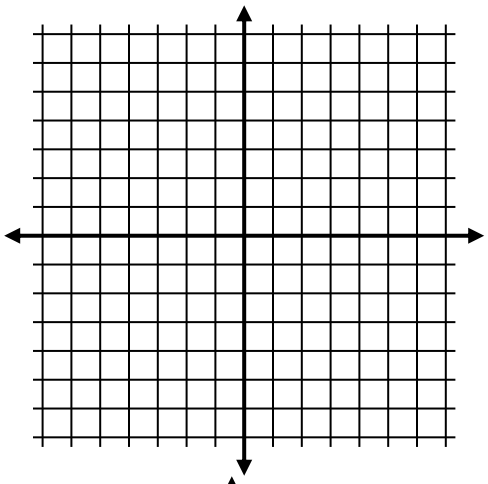
(,) (,) (,) (,)

Plot the points

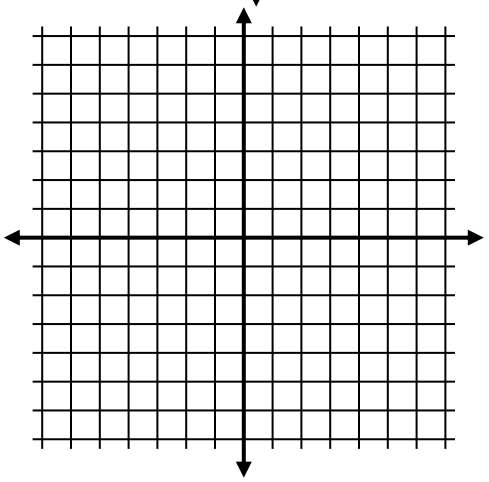


Try These:

a) Graph the function $y = 2x - 3$ with a domain of 2, 3, 4, 5

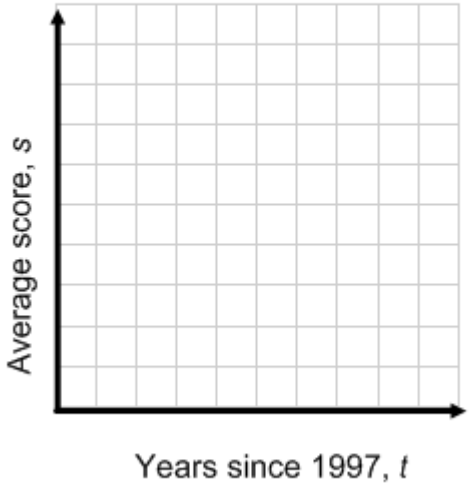


b) Graph the function $y = 2x - 1$ with a domain of 1, 2, 3, 4, 5



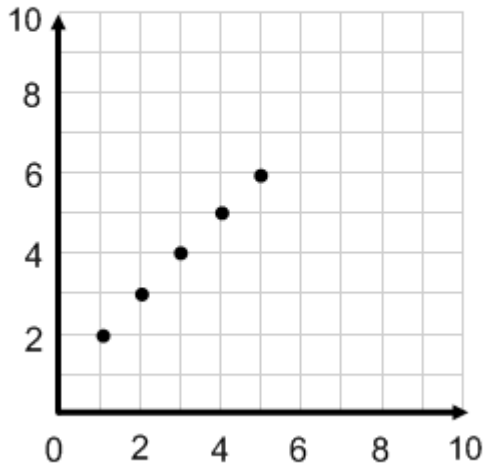
c) The table shows the average score, *s*, on the mathematics section of the SAT in the United States from 1997 to 2003 as a function of time, *t*, since 1997. In the table, 0 corresponds to the year 1997, 1 to 1998 and so on. Graph the function. What trend, if any, do you notice?

Years since 1997, *t*	0	1	2	3	4	5	6
Average score, *s*	511	512	511	514	514	516	519

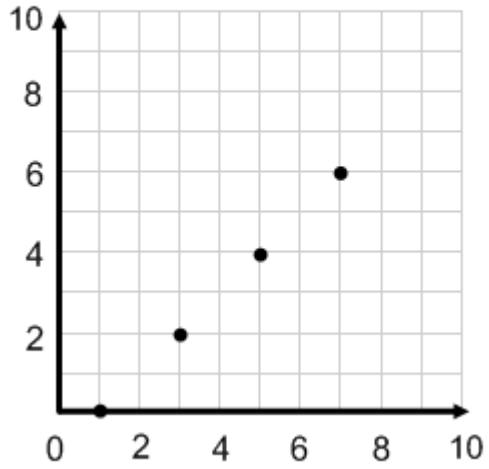


For each graph given, write a rule for the function. Then identify the domain and range.

a)



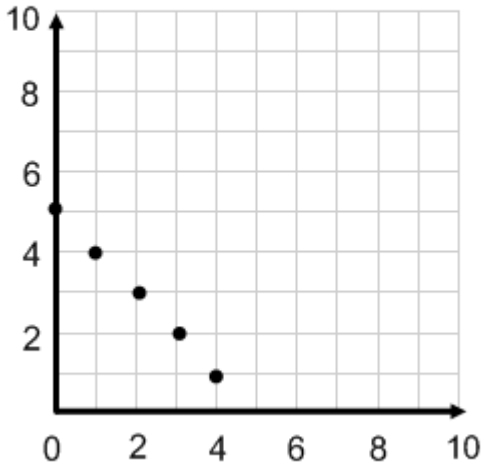
b)



Make a table first

Input					
Output					

c)



d)