

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

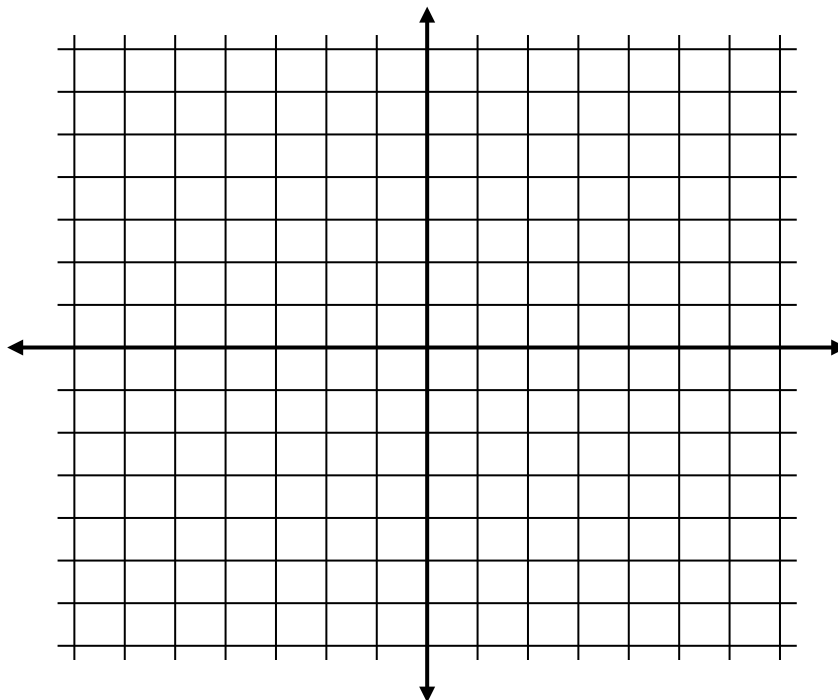
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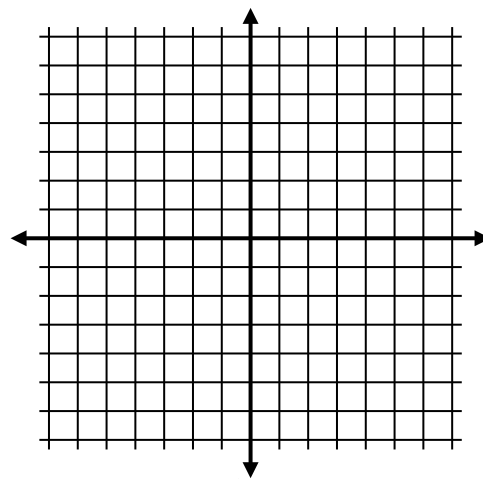
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Plot the points

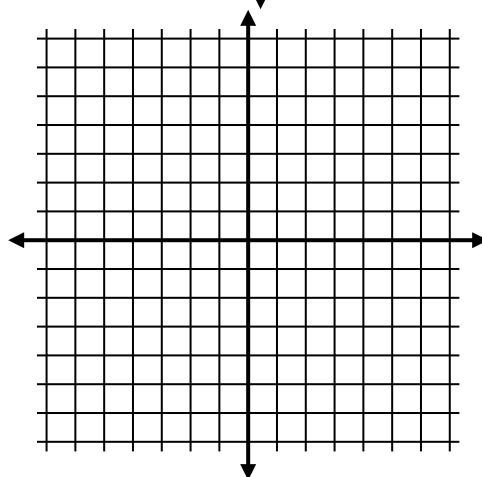


Try These:

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

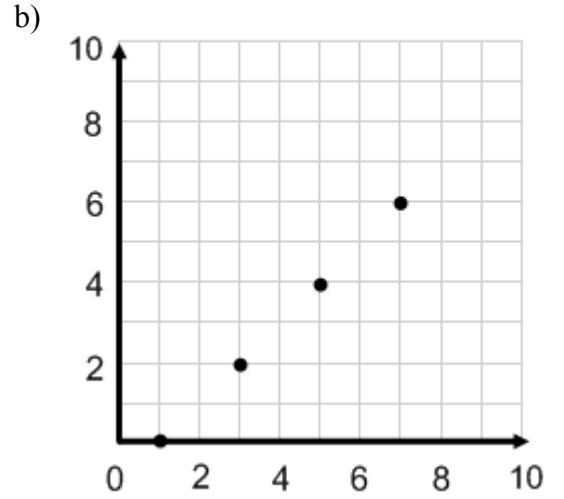
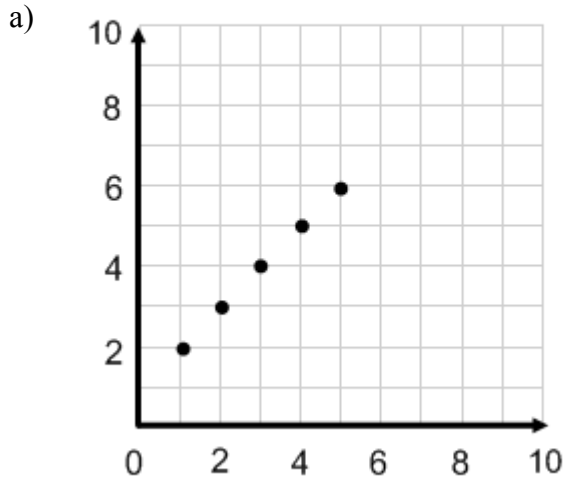


c) The table shows the average score,  $s$ , on the mathematics section of the SAT in the United States from 1997 to 2003 as a function of time,  $t$ , since 1997. In the table, 0 corresponds to the year 1997, 1 to 1998 and so on. Graph the function. What trend, if any, do you notice?

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.



Make a table first

Input					
Output					

