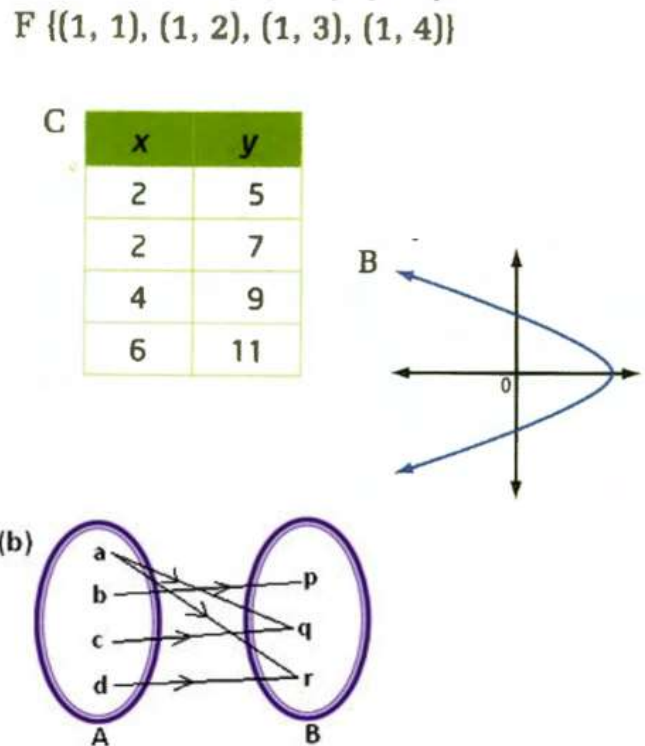
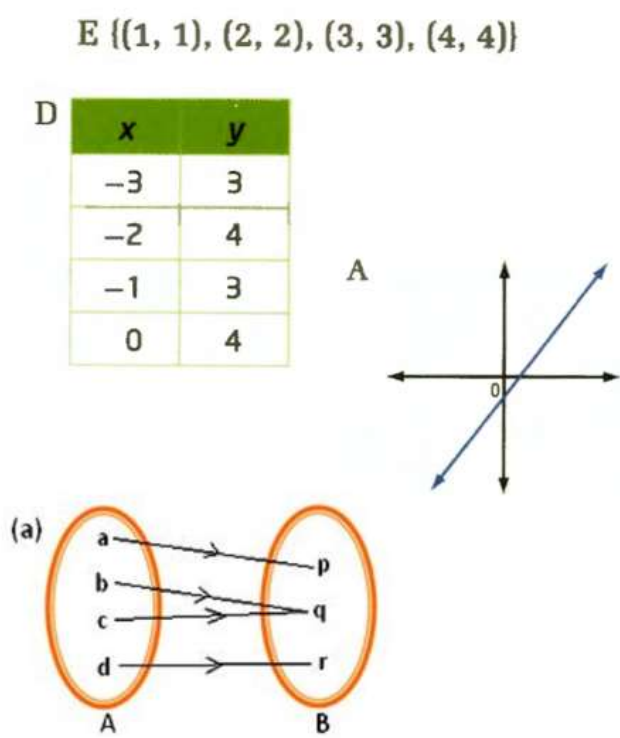


6.4 Functions

Write down some of your observations about the diagram below.

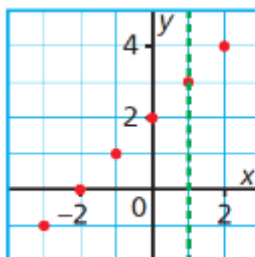
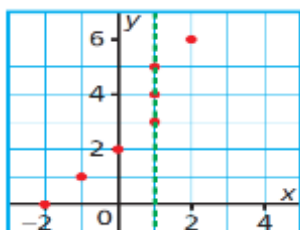
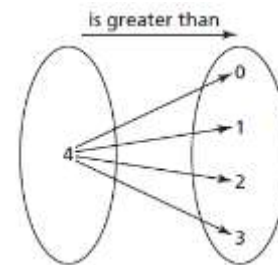
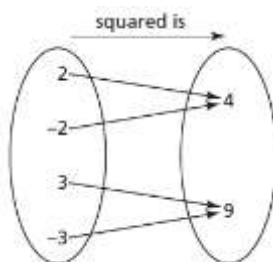
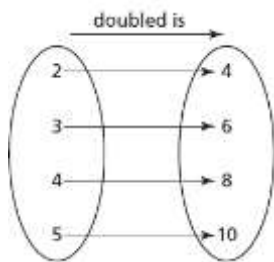


<p>I notice...</p> <ul style="list-style-type: none"> • • • 	<p>I wonder...</p> <ul style="list-style-type: none"> • • •
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Vocabulary

- **Function:** a _____ in which every _____ has _____
_____.
- Each value of the _____ variable is associated with _____ value of the _____ variable
- For every value in the _____ there is a _____ value in the _____

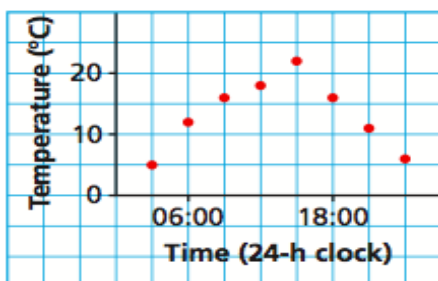
Function or not?



What is the name of the test used on a graph to determine whether or not the relation is a function?

Your Turn: Determine whether or not each relation is a function. Explain your reasoning.

Graph 1



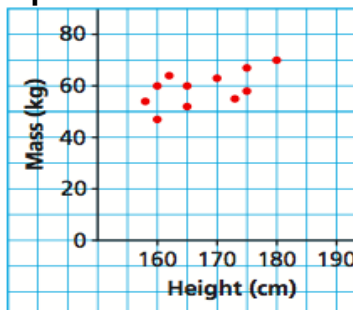
Function Not a function because...

Set 1

$\{(1, 3), (2, 6), (3, 9), (4, 12)\}$

Function Not a function because...

Graph 2



Function Not a function because...

Set 2

$\{(3, 4), (3, 5), (3, 6), (3, 7)\}$

Function Not a function because...

What is Function Notation?

HW: P. 311 #1, 2, 4, 6, 7, 8