Section 1.2: Functions and Graphs

Wednesday, January 14, 2015

relation = a set of ordered pairs (in general, a set of n-tuples)

examples:

	χ	y	<u>×</u>	y
fination?	~ 2 -1 0 1 2	4 1 0 1 4	4 - 0 - 9	10 - (a)

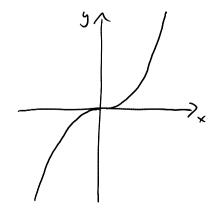
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function = a relation in which for every value of the first coordinate, there is only one value for the second coordinate

"Lat every x, there is only one y"

graphs of functions:

how can you tell if the curve on a graph represents a function?



vertical line test: scan the graph from left to right with a vertical line

The line cuts
the graph in more
than one place, the
graph is not a function

examples: are the following graphs functions?

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