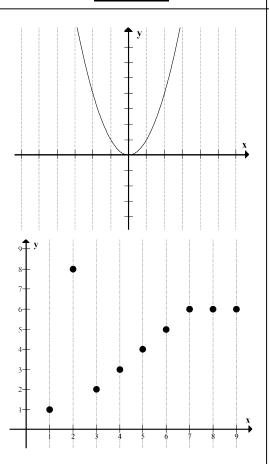
M10 - 6.6 - Function Vertical Line Test Notes

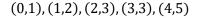
A Relation is a Function if you only have one y value for every x value.

A Relation is <u>NOT</u> a Function with more than one *y* value for any *x* value.

Is a function

Not a function

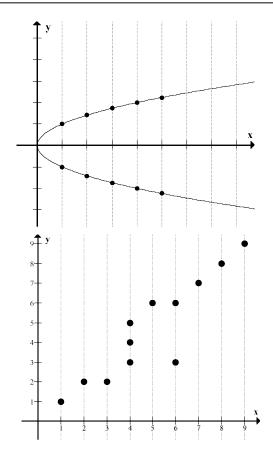


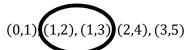


x	y
1	1
2	2
4	3
5	6

Each x value only has one y value

A **Relation** is a **Function** if you run your pencil vertically along the page and only cross the line once.



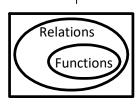


	x	y	
(1	1)
	2	3	
	2	5	
	3	9	

An x value with more than one y value

A Relation is a Function if you run your pencil vertically along the page and ever hits the line more than once.

Venn Diagram



All Functions are Relations
Not all Relations are Functions