

Lecture 8/25/23

Recall the following defn from last time:

Defn: A function is a relation in which every input value is related to exactly one output value.

Reminder: function notation.

$$f(x) = y$$

Name of function. ↑ indep. var. / input var. ↑ dep. var. / output var.

We've seen functions defined by

- 1) Equations
- 2) Tables
- 3) Diagrams
- 4) Graphs.

~~There is~~ There is a special test for graphs to see whether or not they represent functions.

VLT (Vertical Line Test): If a ^{vertical} line crosses a graph at ~~more than~~ 2 or more points, the graph does not represent a function.

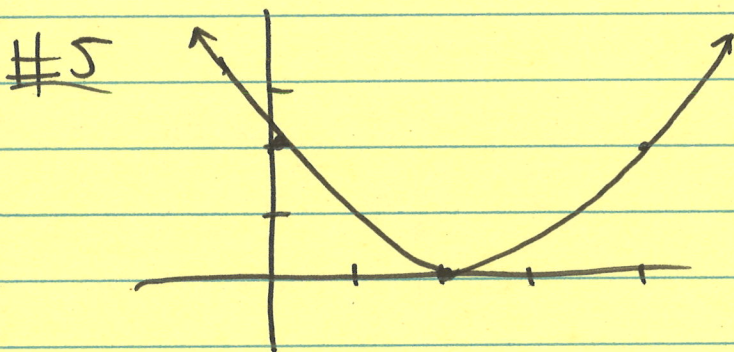
let's review a bit:

Tables:

#4	x	0	2	4	6	8
	f(x)	5	6	3	0	2

a) $f(2) = \underline{6}$

(b) $f(-) = 5$
 $f(0) = 5$



$f(4) = 2$

$f(-) = 0$
 $f(2) = 0$