

Maths 02 - Functions and Graphs

Definition of a Function: A variable "y" is a variable of another variable "x", if there is a relation between them, such that every value of "x", gives one and only one value of "y".

My understanding o o o o

$$y = 4x + 2$$

$\uparrow$ input, (set of all possible values)
 $\rightarrow$ output, one and only one answer.

Tabula form

x	-2	-1	0	1	2	3	4	5	6
y	-6	-2	2	6	10	14	18	22	26

Is this a function? (examples)

✓ $y = 4x + 3$

$y^2 = 5 - x$ ✗

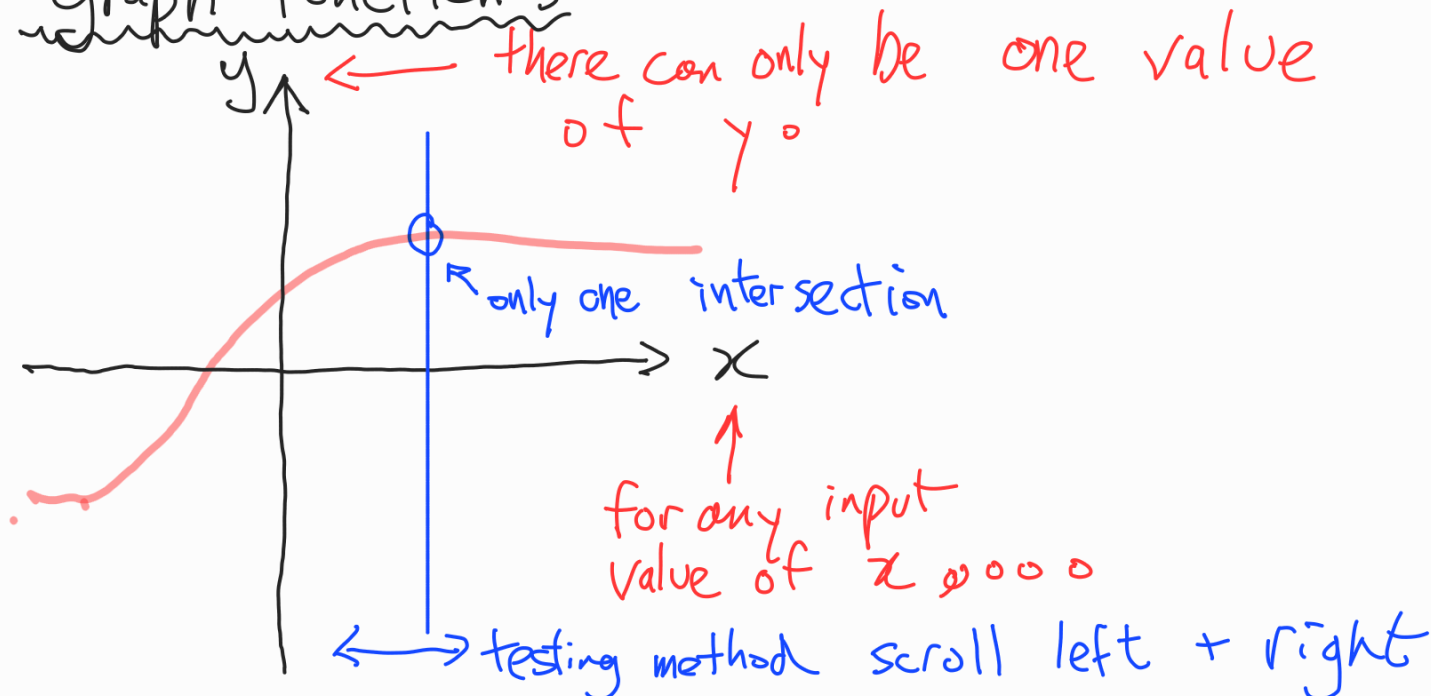
$x = 1, y = \pm 2$

✓ $y = \sqrt{x-1}$

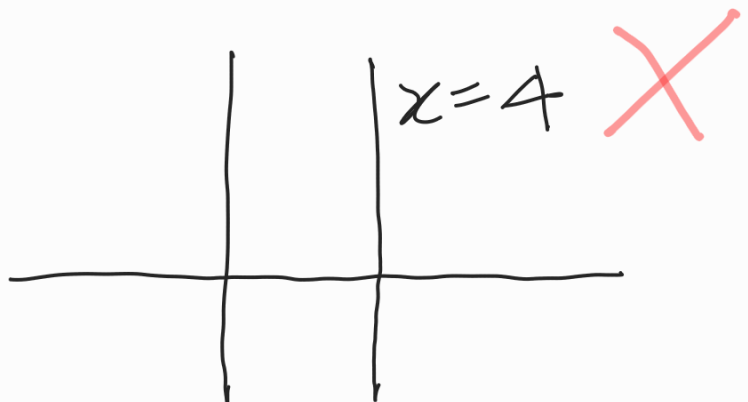
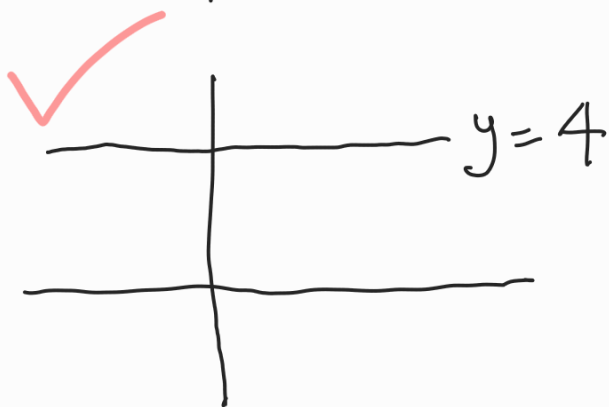
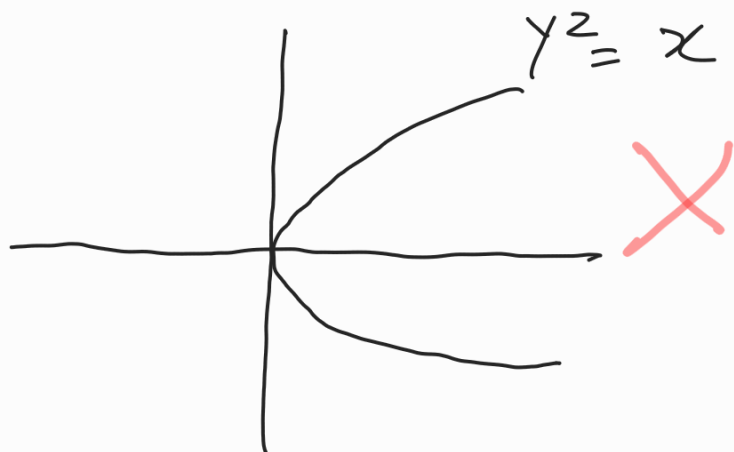
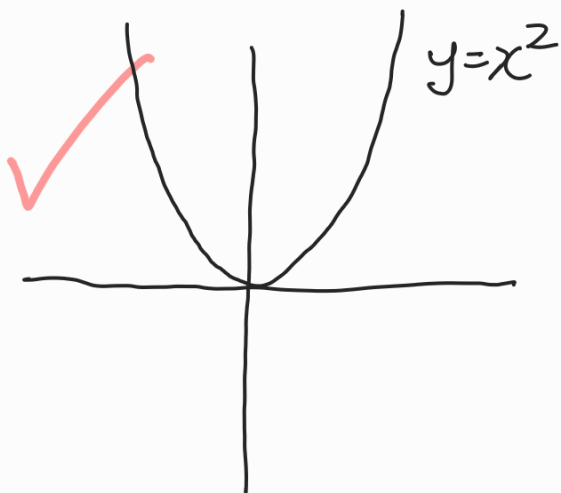
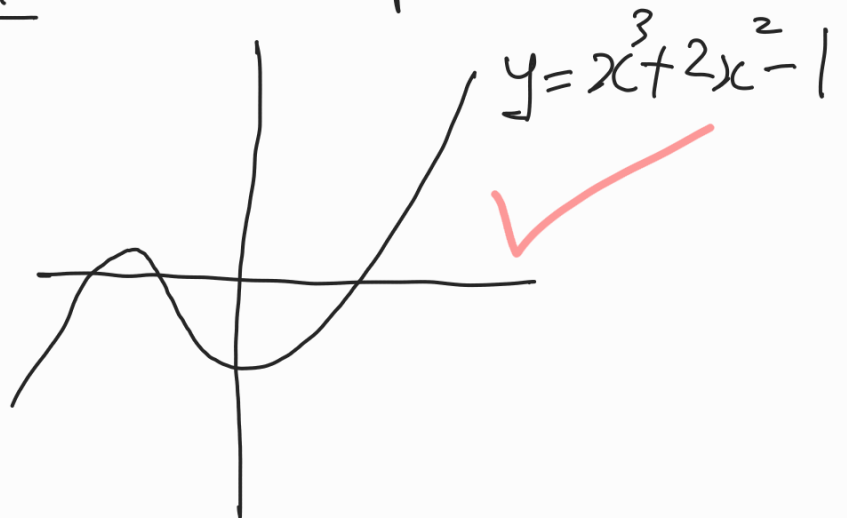
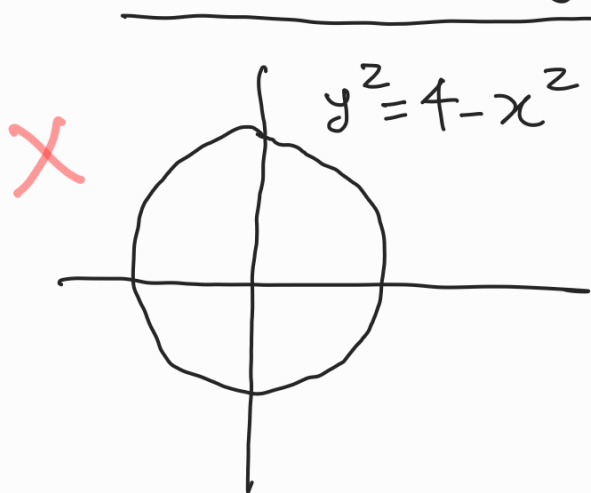
$\rightarrow x \geq 1$

Speed = 80km, find distance "y" with different travel time "x"
✓

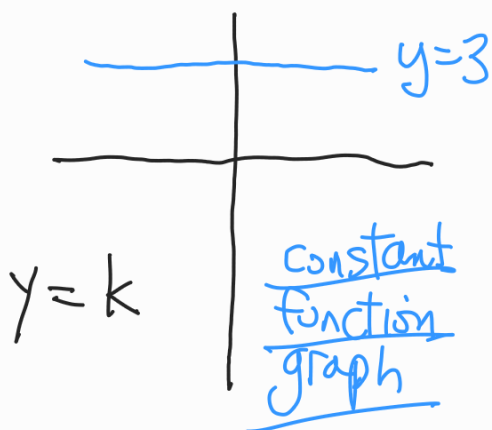
Graph Functions



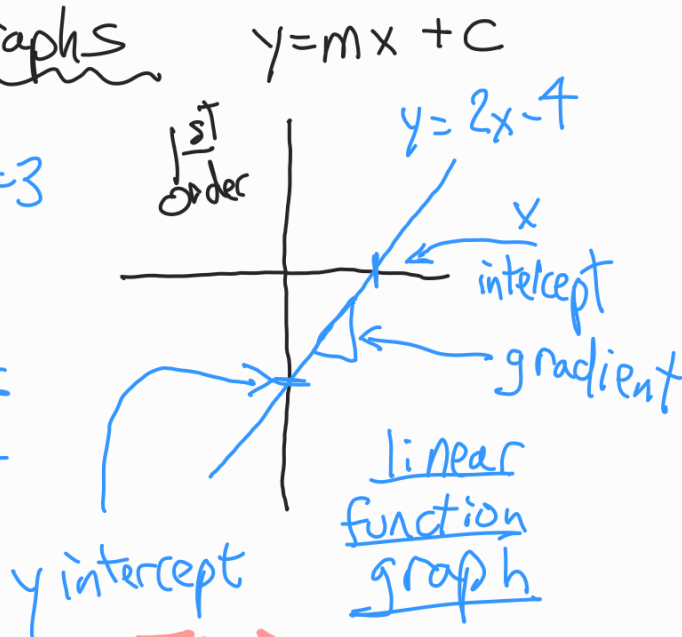
Is this a function ? (example)



Types of Graphs



0 order



END

