Tuesday, September 4, 2018 11:21 AM

E.g.
$$h(x) = -7$$

 $h(2) = -7$; $h(2018) = -7$
 $h(-2018) = -7$

E.g.
$$f(x) = 2^2 - 3x$$
 () - 3(
Find $f(1)$; $f(-1)$ and $f(2a)$
 $f(1) = (1)^2 - 3(1) = 1 - 3 = -2$

$$f(-1) = (-1)^2 - 3(-1) = 1 + 3 = 4$$

$$f(2a) = (2a)^2 - 3(2a)$$

$$= 4a^2 - 6a$$

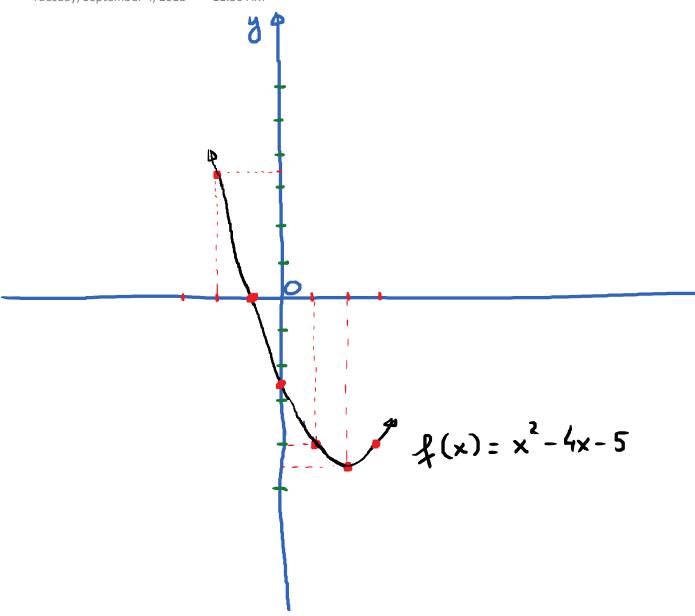
(3) Graphs of Function.

(x, y)

To graph a function, we find ordered pairs (x, f(x)), then we plot them and sketch a graph through the points.

 $E_{g.}$ $f(x) = x^2 - 4x - 5$

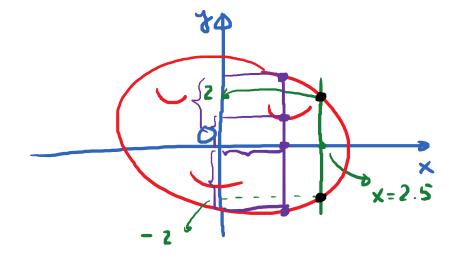
	×	$y = f(x) = x^2 - 4x - 5$	_
	- 2	7	→ (-2,7)
	-1	0	─ (-1,0)
	0	- 5	<u></u> (0, -5)
	1	-8_	$\rightarrow (1, -8)$
`	2	-9	→ (2,-9)
	3	-8	→ (38)



4) The Vertical-line Test.

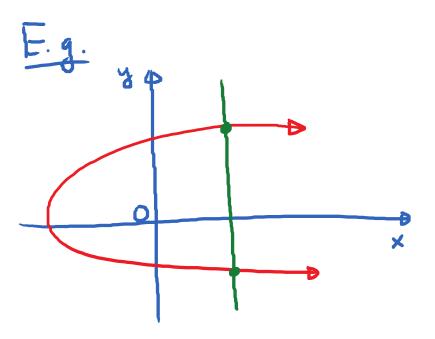
Eg.

74



The Vertical - line Test:

If it is possible to draw a vertical line that intersects a graph more than once, then the graph is NOT the graph of a function.



Not a graph of a function

X

graph of a function.

