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Tuesday 22nd September

§3.2 Intro to Functions

Defining Relation, Domain, and Range

See Screen (lecture Notes)

Identify in a Relation is a Function

See screen (lecture Notes)

Input is X Output is Y

{ , } Braces

Function is a relation where each input leads to one output

- Vertical line test also determines whether the graph is a function.

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⑩ Domain $\{-3, -6, 7\}$

Range $\{10, 1, -8\}$

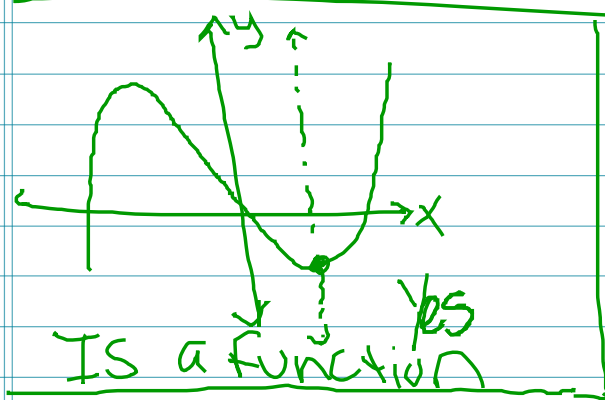
Function? No, 1 input for 2 output

⑮ Domain $\{$ Venus, Mars, Jupiter, Saturn, Neptune $\}$

Range $\{18, 21, 39\}$

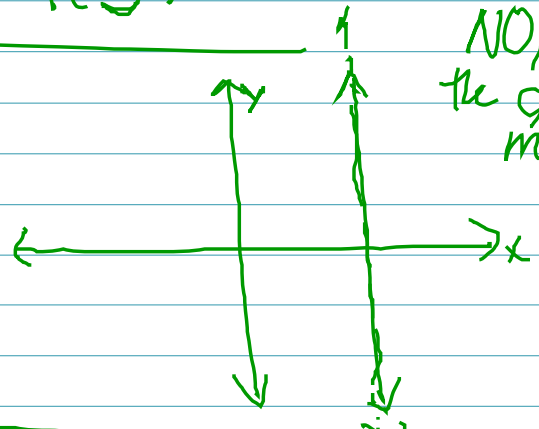
Function? Yes

Vertical Line Test



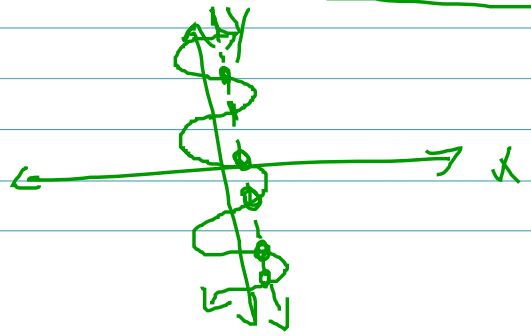
Yes

Is a function



NO, Hits the graph more than ones

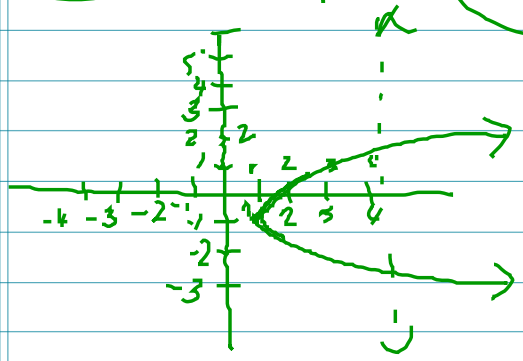
NOT A Function



Determining the Domain a Range of a Function

Collection of MLP, SS: RS & A

(23) Graph, ← important on test



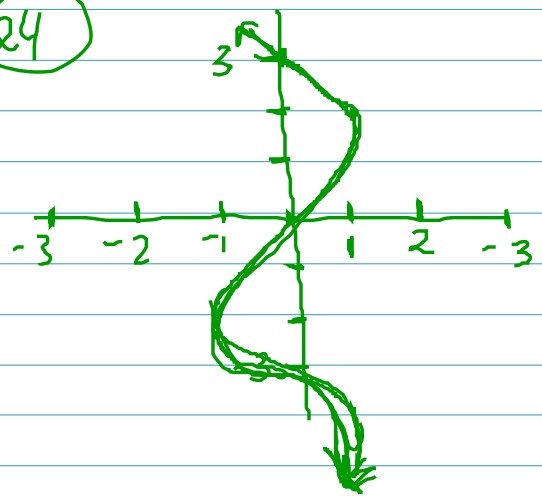
Function? NO

Domain: (x-coord's) $[1, \infty)$

Range: (Y-coord's) $(-\infty, \infty)$

All real #'s

(24)



Function?

Domain: (X-coord's) $[-1, 1]$

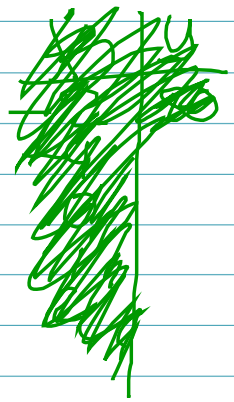
Range: (Y-coord's) $(-\infty, \infty)$

All real #'s

Determining if the Graph of an Equation is a function

(30) $x = 5y^4$

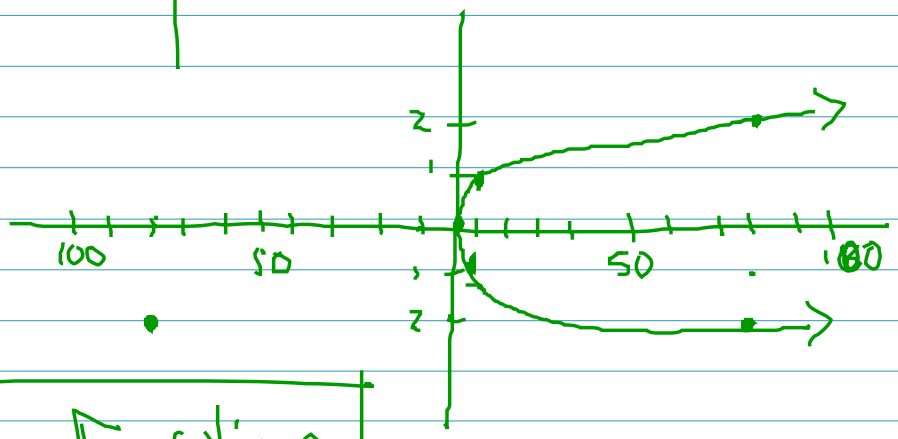
Assume values for y



If $y = -2$ then $x = 5(-2)^4$
$x = 80$

If $y = -1$ then $x = 5(-1)^4$
then $x = 5$

x	y
+80	-2
5	-1
0	0
5	1
80	2



NOT A Function

Using function Notation and Evaluating Functions. pg. 47 of lecture Notes

f(x) is pronounced "F of x"

(37) $g(x) = 4x^2 - 7x + 3$ find $g(4)$

$g(4) = 4(4)^2 - 7(4) + 3$

$g(4) = 64 - 28 + 3$

$g(4) = 36 + 3$

$g(4) = 39$

(59)

year	x	consumption
2001	0	
2002	1	
2005	4	108.94 lbs per person
2010	9	
2014	13	135.4 lbs per person
2015	14	

$c(x) = 2.94x + 97.18$

In 2005, $c(4) = 2.94(4) + 97.18$

$= 11.76 + 97.8$

$c(4) = 108.94$

In 2005 each person ate 108.94 lbs of poultry.

$c(x) = 2.94(13) + 97.18$

$c(13) = 2.94(13) + 97.18$

$= 134.4$

In 2014 each person ate 135.4 lbs of poultry.

Test on Thursday