Section 1.1 - Characteristics of a Function

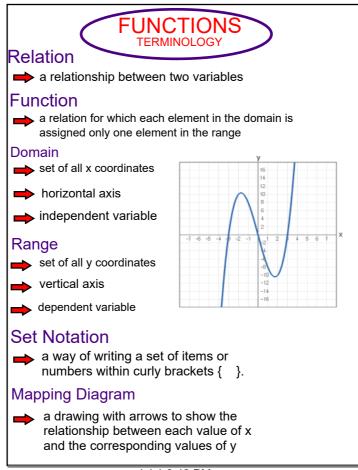
Learning Goal:

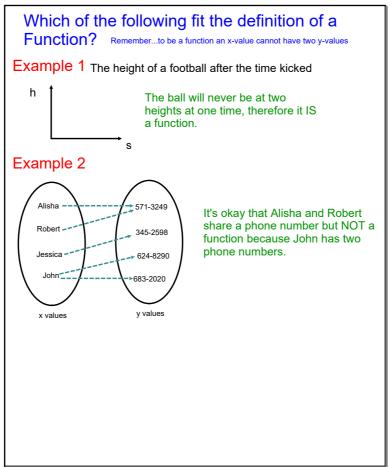
By the end of today I will be able to recognize the difference between a FUNCTION and a RELATION.

By the end of today, I will be able to recognize a function using the vertical line test.

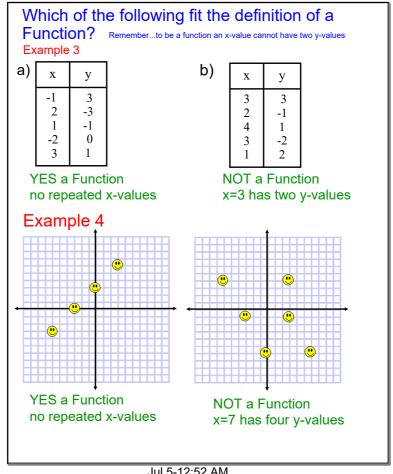
By the end of today, I will have a better understanding of functional notation and set notation.

Sep 9-9:43 PM





Jul 5-12:42 AM



Jul 5-12:52 AM

Using reasoning to decide whether a relation is a function...

b) x y -1 -3 0 1 1 5

2 9

Solution

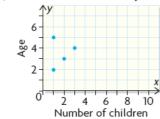
Domain = $\{-1, 0, 1, 2\}$ Range = $\{-3, 1, 5, 9\}$

This relation is a function.

Jul 5-12:07 AM

Using reasoning to decide whether a relation is a function...

c) Children at ABC Daycare



Solution

c) Children at ABC Daycare

Domain = $\{1, 2, 3\}$ Range = $\{2, 3, 4, 5\}$

This relation is not a function.

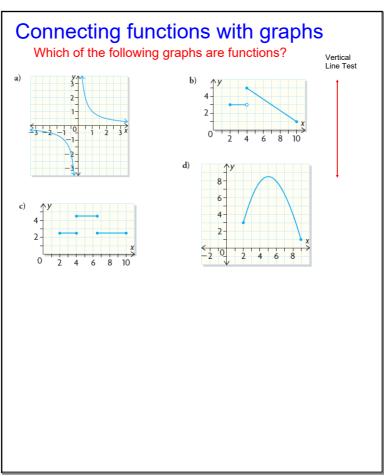
DETERMINING IF A RELATION IS A FUNCTION ...USING THE VLT

vertical-line test

a test to determine whether the graph of a relation is a function. The relation is not a function if at least one vertical line drawn through the graph of the relation passes through two or more points



Feb 10-2:09 PM



Homework

Pg. 10-11 #1,2,7,9

Check out www.desmos.com

Sep 10-9:21 PM