

**Lesson 4-2A: Functions**

**November 30, 2011**

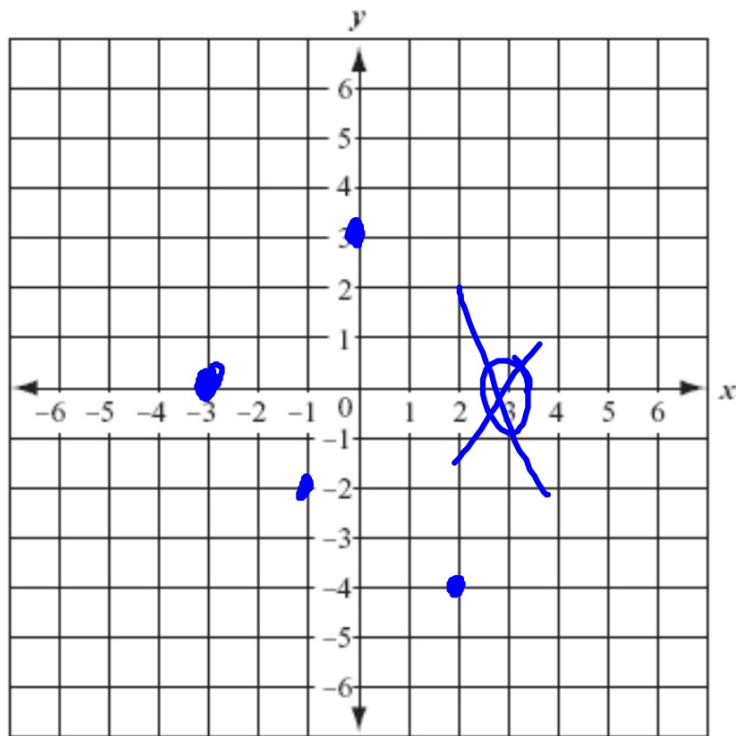
Graph each point on a coordinate plane. Label the  $x$  and  $y$  axis!

1.  $(2, -4)$

2.  $(0, 3)$

3.  $(-1, -2)$

4.  $(-3, 0)$





Quick-write on the left side:

When I hear the word "function", it makes me think of ...

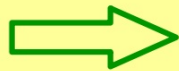
*Quando oigo la palabra "función", me hace pensar en ...*

Age (years)	18	16	20	14
Height (meters)	4.0	4.5	5.5	5.0

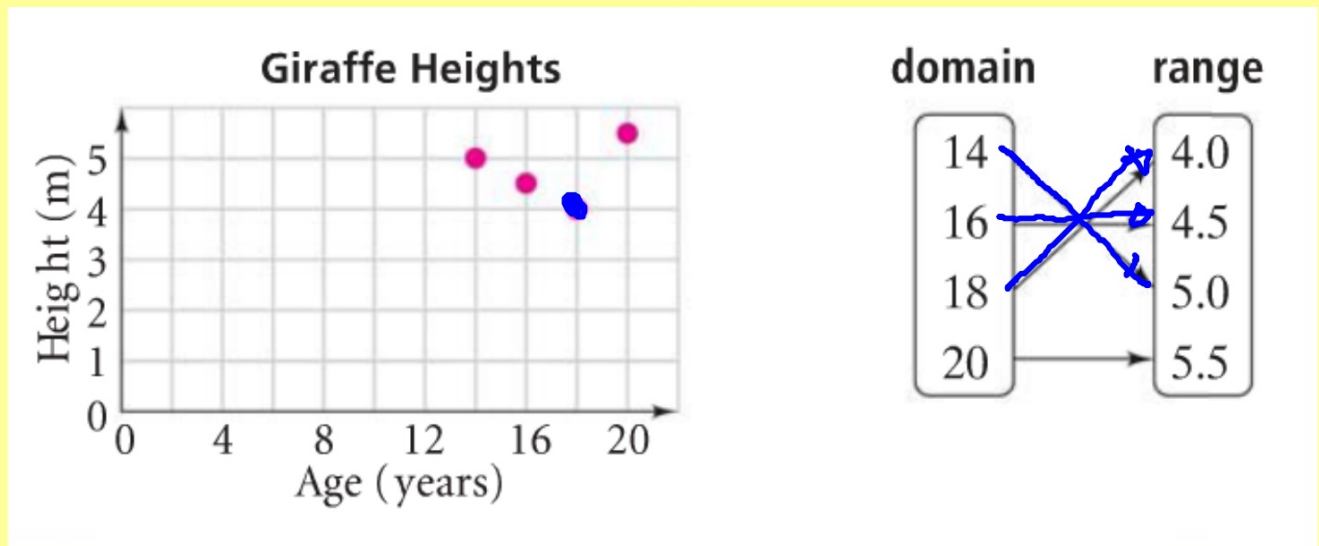
*RELATIONS*

Domain: x-values  
Range: y-values

ANY Set of Ordered Pairs



$\{(18, 4.0), (16, 4.5), (20, 5.5), (14, 5.0)\}$



Relation: any set of  
ordered pairs (points)

Domain:  $x$ -values

Range:  $y$ -values

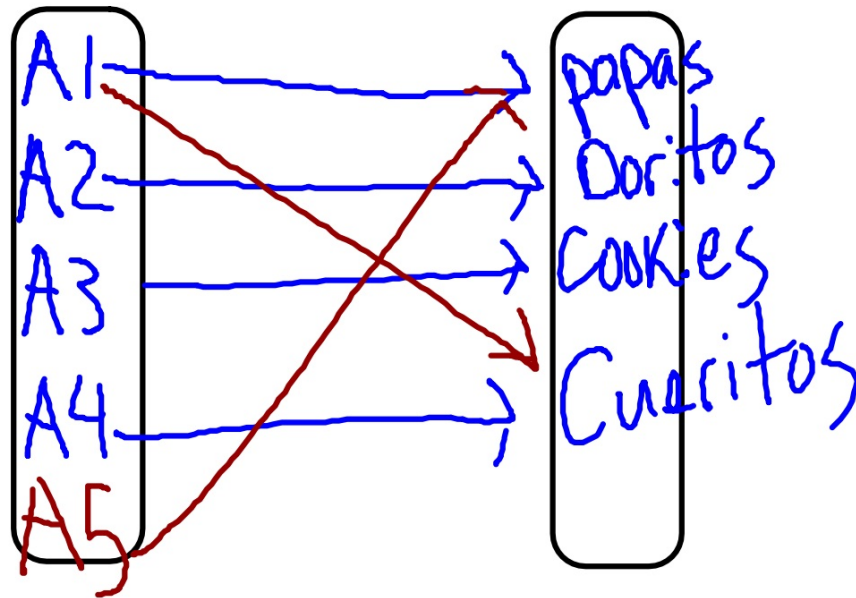


**Functions:** Each number in the Domain matches with **EXACTLY** one number in the Range.

Mapping  
Diagram

Domain

Range



Functions: Each number in the Domain matches with EXACTLY one number in the Range.

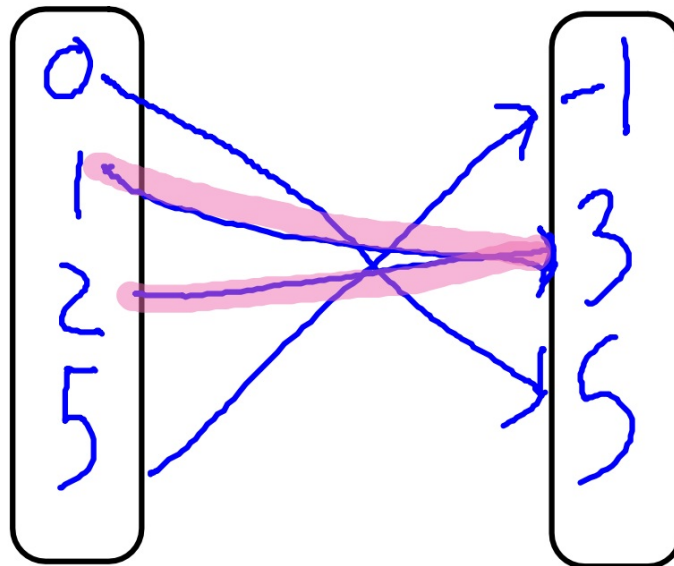
$(1, 3)$   $(0, 5)$   $(2, 3)$   $(5, -1)$

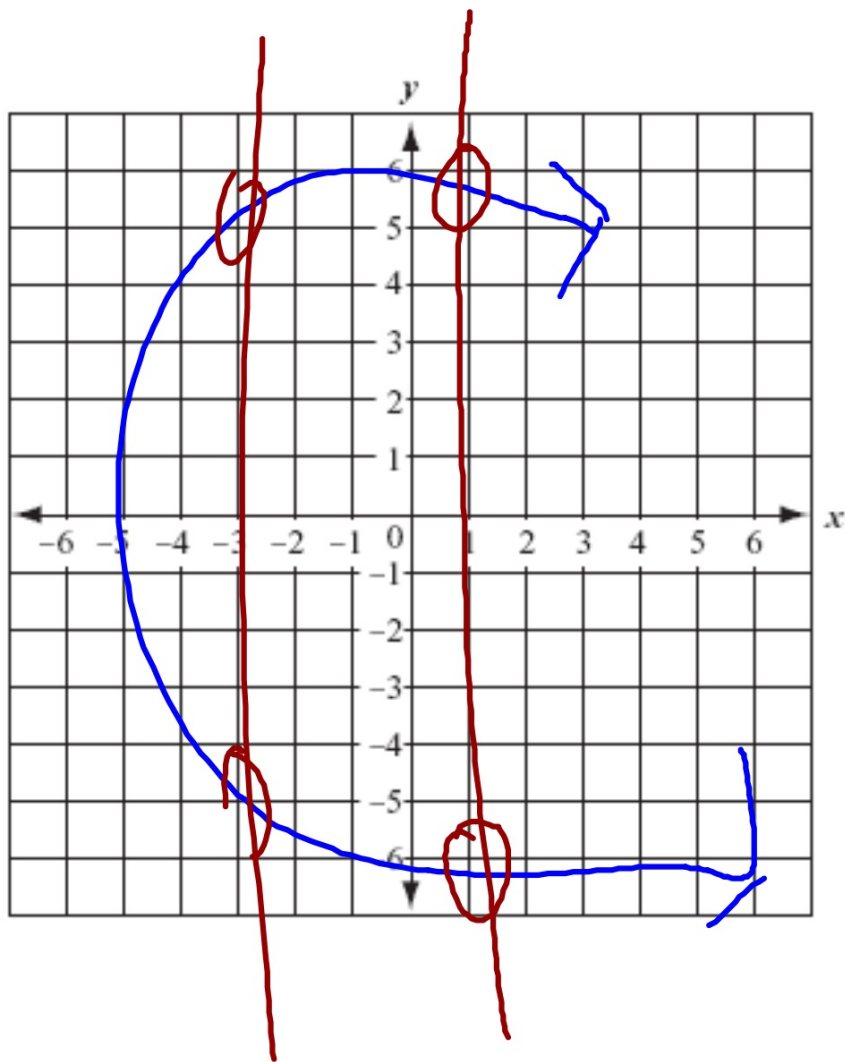
Mapping  
Diagram

Domain

Range

This  
is a  
function





$(1, 3)$   $(1, 2)$   $(0, 3)$   $(2, 5)$

