A relation is a correspondence between two different sets.

The age and weight of a new puppy.

age (months)	1	2	3	4	5
weight (lbs)	3	6	11	16	20

Personal time studying and test scores for each unit.

Time (min)	30	15	65	20	90	50	35	15	55
Test Score	85	82	93	88	97	91	93	81	92

A relation is a correspondence between two different sets.

The age and weight of a new puppy.

Independent
Dependent

age (months)	1	2	3	4	5
weight (lbs)	3	6	11	16	20

Domain or input Range or output

Ordered Pairs

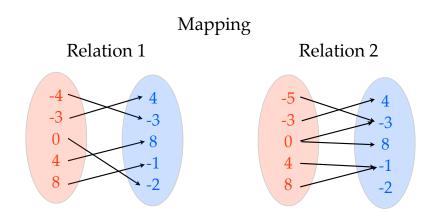
(1, 3) (2, 6) (3, 11) (4, 16) (5, 20) Graph

san part of the state of

x-values

Table

A function is a relation in which every element in the domain is paired with exactly one element in the range.



A function is a relation in which every element in the domain is paired with exactly one element in the range.

Ordered Pairs

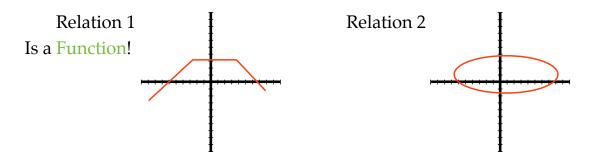
Relation 1 Relation 2

$$(3,6), (-2,-1), (4,-3), (6,2)$$
 $(3,-3), (2,-1), (3,4), (-1,5)$

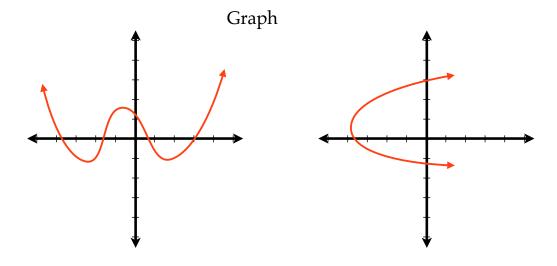
A function is a relation in which every element in the domain is paired with exactly one element in the range.

Graph

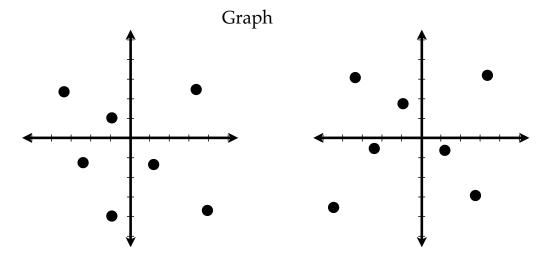
Vertical Line Test - If a vertical line passes through no more than one point of the graph of a relation, the relation is a function.



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