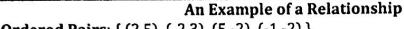
5.7 Defining "Function" ... For Reals

Relationships: Remember that we have been looking at relationships between input values and output values. We can model those relationships with tables, graphs, ordered pairs, equations, and *maps*.



Ordered Pairs: { (2,5), (-2,3), (5,-2), (-1,-2) }

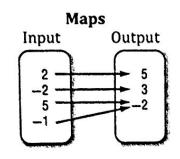
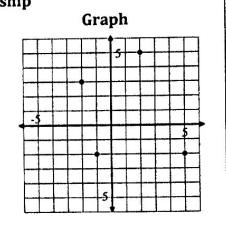


Table		
input	output	
2	5	
-2	3	
5	-2	
1	-2	



The really real definition of a function is:

A function is a relationship between a set of inputs and outputs. In a function, there is exactly one output for each input.

Think about this addition to the definition that we had before and circle the relationships that are **functions** in each category.

	U	7
	d	ز
,		
,	2	2
	_	_

input	output
-2	3
1	-2
2	5
5	-2

input	output
-3	2
-2	4
1	3
1	-2

Ordered Pairs

$$\{(1,1),(1,-1),(4,2),(4,-2)\}$$

