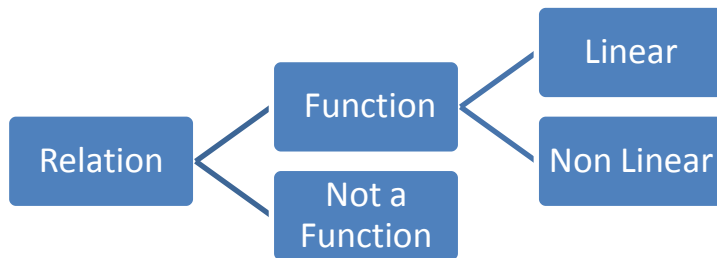


# Functions and Relations



Relations are sets of ordered pairs. They can be shown in a variety of ways. Some relations are also functions. Functions are a special type of relation. To be a function, there can only be one output assigned to each input.

Representation	Function	Not a Function																								
List of Ordered Pairs <small>*Remember ordered pairs are written (x,y)</small>	$\{ (6,2), (3,5), (9,0), (5,7), (8,1) \}$	$\{ (3,2), (5,7), (1,4), (9,2), (3,7) \}$																								
Table	<table border="1"> <tr> <td>X</td> <td>-3</td> <td>0</td> <td>3</td> <td>8</td> <td>-10</td> </tr> <tr> <td>Y</td> <td>6</td> <td>8</td> <td>20</td> <td>4</td> <td>8</td> </tr> </table>	X	-3	0	3	8	-10	Y	6	8	20	4	8	<table border="1"> <tr> <td>X</td> <td>-2</td> <td>0</td> <td>-2</td> <td>7</td> <td>-8</td> </tr> <tr> <td>Y</td> <td>6</td> <td>8</td> <td>20</td> <td>4</td> <td>8</td> </tr> </table>	X	-2	0	-2	7	-8	Y	6	8	20	4	8
X	-3	0	3	8	-10																					
Y	6	8	20	4	8																					
X	-2	0	-2	7	-8																					
Y	6	8	20	4	8																					
Graph																										
mapping																										