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| 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.  |
| Functions | Non functions |
| **(1,3), (2,3), (3,3)** |  |

How can you tell if a relation is a function?

Ordered Pairs: If x doesn’t repeat, it is a function.

Mappings: If each x value has its own y value, it is a function.

Graph: X can’t have more than one y value, so if two points are “stacked” then they share an x value and therefore not a function.

Table: If x values don’t repeat, it is a function.

*\*Remember, negatives and positives indicated two different values and are not the same number. So, if you have (-1,9) and (1,9), you still have a function.*