

## 1.1 Function Notation

**Function:** A rule in which each input has exactly one output

How do you represent Functions?

1. Words
2. Tables
3. Graphs
4. Formula

**Function Notation:**

**Example:**  $W = f(t)$ . You would say:

- $W$  is a function of  $t$
- $W$  equals “ $f$  of  $t$ ”
- $t$  is the independent variable (Input or Domain)
- $W$  or  $f(t)$  is the dependent variable (Output or Range)

**When is the relation not a function?**

1. When the graph fails the vertical line test
2. When there is more than 1 output for an input
  - When a Domain value produces more than one Range Value

**HWK:** pg. 6 s1-s9, 1-37 e.o.o.