Functions
One Pager by Kirill Balashov

Domain

Range

Input

Output

Discrete

Continuous

Dependent variable

Independent variable

Rate of Change

Relation

Linear function

1st fact –an input and its matching output are together called an ordered pair.

2nd fact –Domain is set of all possible x values.

1st wonder – Can function be written in another way?

3rd fact – Continuous Graph made up of straight lines or curves.

4th fact – Discrete Graph made up of distinct, unconnected points.

5th fact – Range is set of all possible y values.

2nd wonder – What is the most commonly used function?

Summary:
A function is a relation in which each possible input value leads to exactly one output value. The output is a function of the input. The input values make up the domain, and the output values make up the range.

Pictures:

Function

1 → 3
2 → 4
3 → 5
4 → 6

Not Function

1 → 1
9 → 3
0 → -3
→ 0