# Functions (and real functions)

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## Week II: Outline

1. Functions between sets

2. Domain, codomain; argument, value

3. Image and preimage of a function

4. Injective and surjective functions

5. Real functions

6. Inverse of a (bijective) function

# Symbols (and logic)

# Logic in every day life

# Examples of proofs

# Set, elements, subsets

## What is a set?

A **set** is a well-defined collection of distinct objects.

# Counting finite sets