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## 1 Introduction

Sample document about **functions** and **sets**.

## 2 Set $\mathcal{S}$

*A collection of any kind of objects.*

More detailed information about **sets** with examples.

## 3 Function $f(x)$

*A rule that assigns every element in the domain **set** to an element in the range **set**.*

More detailed information about **functions** with examples.