Sets

A set is an unordered collection of objects without repetition

Sets can be described by their members (elements)

Example: $\{1, 3, 5, 7\}$

An ellipsis can be used to subject

Infinite Set : $\{1, 3, 5, 7, ...\}$

When S is a set and X is a member of S, we can write $X \in S$ to indicate that X is a member of S

$y \notin S$ means that y is **not** a member of S

$3 \in \{1, 2, 3\}$

$9 \notin \{1, 2, 3\}$

Set Builder Notation

$\{\varepsilon x / x\}$