Summary of Halmos' Naive Set Theory

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Chapter 1

The Axiom of Extension

Let there be sets. We assume that everything is a set.

Let there be a binary relation of membership, \in . If $x \in A$ we say that x belongs to A, x is an element of A, or x is contained in A.

Axiom 1 (Axiom of extension) Two sets are equal if and only if they have the same elements.