Principle of Mathematical Analysis

Jiuru Lyu

June 8, 2023

Contents

1 The Real and Complex Number Systems

1.1 Ordered Sets

Definition 1.1.1 (Belongs). If A is any set (its elements can be numbers or other objects), we use $x \in A$ to denote the fact that x is an element of A. If x is not a member of A, we write $x \notin A$.
Notation 1.1.2.
Corollary 1.1.3