MATHS 255 Class Notes
Chapter 3

Non-axiomatic approach. For a more formal treatment, see Appendix A (p.127).

Undefined terms:
  Set
  Element
  $\in$

Basic notations:

Empty set: $\varnothing$

Subset: $\subseteq$

Proper subset: $\subset$

Equality of sets: $=$

Description of set by a statement: $\{x \in U:\ P(x)\}$.

Basic operations

Union: $\cup$

Intersection: $\cap$

[Omit Indexed sets, at least for now: Omit §§ 3.2.3-5, 3.2.8, 3,2.11]

Complement of a set: A^c, A^c_U.

Difference: $A \setminus B$.

Power set: $P(A)$.

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