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Chapter 1 Logic and Set Theory - Duke University

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Predicates and Quanti ers 13 5 Writing  
Formal Proofs 22 6 Mathematical  
Induction 29 7 Quick Review of Set Theory  
& Set Theory Proofs 33

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An Overview of Logic, Proofs, Set Theory,  
and Functions



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Set Theory and Logic Supplementary Materials Math 103: Contemporary Mathematics with Applications A. Calini, E. Jurisich, S. Shields c 2008. 2. Chapter 1 Set Theory 1.1 Basic de fi nitions and notation A set is a collection of objects. For example, a deck of cards, every student enrolled in

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## Set Theory and Logic

There is a natural relationship between sets and logic. If  $A$  is a set, then  $P(x) = \{x \in A\}$  is a formula. It is true for elements of  $A$  and false for elements outside of  $A$ .

Conversely, if we are given a formula  $Q(x)$ , we can form the truth set consisting

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of all  $x$  that make  $Q(x)$  true. This is usually written  $\{x:Q(x)\}$  or  $\{x \mid Q(x)\}$ .

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## 1.5 Logic and Sets

Set theory History. Georg Cantor.

Mathematical topics typically emerge and

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evolve through interactions among many researchers. Basic concepts and notation. Set theory begins with a fundamental binary relation between an object  $o$  and a set  $A$ . If  $o \dots$  Some ontology. An initial segment of the von ...

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## Set theory - Wikipedia

A set is completely determined by the elements and we define equality on sets as follows: Definition 2. Let  $A$  and  $B$  be sets. Then  $A = B$  if they contain exactly the same elements, that is  $a \in A \iff a \in B$ . To prove that two sets  $A$  and  $B$  are equal, we need to show that for all  $a \in A$  we have  $a \in B$  and for all  $a \in B$ ,

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we have a2A. Claim 3. Let A and B be sets.

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Introduction to Logic and Set Theory-  
2013-2014

Set theory With the exception of its first-order fragment, the intricate theory of Principia Mathematica was too complicated

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for mathematicians to use as a tool of reasoning in their work. Instead, they came to rely nearly exclusively on set theory in its axiomatized form.

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History of logic - Set theory | Britannica  
Logic and Set Theory Mathematical Logic is

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a branch of mathematics which is mainly concerned with the relationship between “ semantic ” concepts (i.e. mathematical objects) and “ syntactic ” concepts (such as formal languages, formal deductions and proofs, and computability).



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Logic and Set Theory - Virginia Commonwealth University

In set theory, Zermelo – Fraenkel set theory, named after mathematicians Ernst Zermelo and Abraham Fraenkel, is an axiomatic system that was proposed in the early twentieth century in order to formulate a theory of sets free of paradoxes such as

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Russell's paradox. Today, Zermelo – Fraenkel set theory, with the historically controversial axiom of choice (AC) included, is the standard form of axiomatic set theory and as such is the most common foundation of mathematics. Zermelo – Fraenkel set ...

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Zermelo – Fraenkel set theory - Wikipedia

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Other Edition  
intersection, element, cardinality, empty set, natural/real/complex number set

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Set symbols of set theory ( $\emptyset, U, \{\}, \dots$ )

Research teams and centers : Europe -

North America - Other Publications - Blogs

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lists - Software - Other. Here is a list of research groups and departments (and some isolated logics specialists in other departments) in the foundations of mathematics and computer science (logic, set theory, model theory, theoretical computer science, proof theory ...

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Logic and set theory around the world  
Foundations of mathematics; mathematical logic and set theory; their interactions with analysis, dynamical systems and combinatorics. Recent projects include the study of foundational and set theoretic questions, and the application of the

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methodology and results of descriptive set theory, in classical real analysis, harmonic analysis ...

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