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Define the rank of a set c to be the least α such that $c \in V_\alpha$. Compute the rank of $\{\{\emptyset\}\}$. Compute the rank of $\{\emptyset, \{\emptyset\}, \{\emptyset, \{\emptyset\}\}$. Solution. Observe that $V_{\alpha+1} = P V_\alpha$. Taking $V_0 = A = \emptyset$, it follows that $V_1 = P V_0 = \{\emptyset, \{\emptyset\}\}$. Hence the rank of $\{\{\emptyset\}\}$ is 1. Furthermore, $V_2 = P V_1 = \{\emptyset, \{\emptyset\}, \{\{\emptyset\}\}, \{\emptyset, \{\emptyset\}\}\}$. Thus $\{\emptyset, \{\emptyset\}, \{\emptyset, \{\emptyset\}\}\}$ has rank 2. Exercise 1.6.

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Theorem 5ZC The operation $+$ is commutative and associative: $a + z b = b + z a$, $(a + z b) + z c = a + z (b + z c)$. Proof The integer a must be of the form $[< m, n)]$ for some natural numbers m and n ; similarly b is $[< p, q)$ 1 Then: $a + z b = [< m, n)] + z [< p, q)] = [< m + p, n + q)]$ by definition of $+$.

CHAPTER 5 CONSTRUCTION OF

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I definitely recommend this book to anyone that would like to self-study Set Theory. This is a quite good book introducing Set Theory. It's a bit more than "Naive Set Theory" by Paul R. Halmos, while not so deep as discussing proofs and forcing. I was reading "Set Theory" by Thomas Jech at the beginning, and found that it's too difficult for me.

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Elements of Set Theory by Herbert B. Enderton

Math 570 Instructor Uri Andrews Office:
513 Van Vleck Hall Lectures MWF
1:20-2:10 in Van Vleck B317 Office hours
Monday 2:10-4:10 Text The Elements of
Set Theory by Herbert B. Enderton. This
is an old book, but still one of the best.

Math 570

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textbook in set theory. In mathematics these days, essentially everything is a set. Some knowledge of set theory is necessary part of the background everyone needs for further study of mathematics. It is also possible to study set theory for its own interest--it is a subject with intriguing results about simple objects. This book starts with material that nobody can do without. There is no end to what can be learned of set theory, but here is a beginning.

Designed for undergraduate students of set theory, *Classic Set Theory* presents a modern perspective of the classic work of Georg Cantor and Richard Dedekind and their immediate successors. This includes: The definition of the real numbers in terms of rational numbers and ultimately in terms of natural numbers Defining natural numbers in terms of sets The potential

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paradoxes in set theory The Zermelo-Fraenkel axioms for set theory The axiom of choice The arithmetic of ordered sets Cantor's two sorts of transfinite number - cardinals and ordinals - and the arithmetic of these. The book is designed for students studying on their own, without access to lecturers and other reading, along the lines of the internationally renowned courses produced by the Open University. There are thus a large number of exercises within the main body of the text designed to help students engage with the subject, many of which have full teaching solutions. In addition, there are a number of exercises without answers so students studying under the guidance of a tutor may be assessed. Classic Set Theory gives students sufficient grounding in a rigorous approach to the revolutionary results of set theory as well as pleasure in being able to tackle significant problems that arise from

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the theory.

What is a number? What is infinity? What is continuity? What is order? Answers to these fundamental questions obtained by late nineteenth-century mathematicians such as Dedekind and Cantor gave birth to set theory. This textbook presents classical set theory in an intuitive but concrete manner. To allow flexibility of topic selection in courses, the book is organized into four relatively independent parts with distinct mathematical flavors. Part I begins with the Dedekind–Peano axioms and ends with the construction of the real numbers. The core Cantor–Dedekind theory of cardinals, orders, and ordinals appears in Part II. Part III focuses on the real continuum. Finally, foundational issues and formal axioms are introduced in Part IV. Each part ends with a postscript chapter discussing topics beyond the scope

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of the main text, ranging from philosophical remarks to glimpses into landmark results of modern set theory such as the resolution of Lusin's problems on projective sets using determinacy of infinite games and large cardinals. Separating the metamathematical issues into an optional fourth part at the end makes this textbook suitable for students interested in any field of mathematics, not just for those planning to specialize in logic or foundations. There is enough material in the text for a year-long course at the upper-undergraduate level. For shorter one-semester or one-quarter courses, a variety of arrangements of topics are possible. The book will be a useful resource for both experts working in a relevant or adjacent area and beginners wanting to learn set theory via self-study.

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Presents those methods of modern set theory most applicable to other areas of pure mathematics.

A Mathematical Introduction to Logic, Second Edition, offers increased flexibility with topic coverage, allowing for choice in how to utilize the textbook in a course. The author has made this edition more accessible to better meet the needs of today's undergraduate mathematics and philosophy students. It is intended for the reader who has not studied logic previously, but who has some experience in mathematical reasoning. Material is presented on computer science issues such as computational complexity and database queries, with additional coverage of introductory material such as sets. * Increased flexibility of the text, allowing instructors more choice in how they use the textbook in courses. * Reduced

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mathematical rigour to fit the needs of undergraduate students

This third volume of problems from the William Lowell Putnam Competition is unlike the previous two in that it places the problems in the context of important mathematical themes. The authors highlight connections to other problems, to the curriculum and to more advanced topics. The best problems contain kernels of sophisticated ideas related to important current research, and yet the problems are accessible to undergraduates. The solutions have been compiled from the American Mathematical Monthly, Mathematics Magazine and past competitors. Multiple solutions enhance the understanding of the audience, explaining techniques that have relevance to more than the problem at hand. In addition, the book contains suggestions for

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further reading, a hint to each problem, separate from the full solution and background information about the competition. The book will appeal to students, teachers, professors and indeed anyone interested in problem solving as a gateway to a deep understanding of mathematics.

A mathematical introduction to the theory and applications of logic and set theory with an emphasis on writing proofs
Highlighting the applications and notations of basic mathematical concepts within the framework of logic and set theory, *A First Course in Mathematical Logic and Set Theory* introduces how logic is used to prepare and structure proofs and solve more complex problems. The book begins with propositional logic,

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including two-column proofs and truth table applications, followed by first-order logic, which provides the structure for writing mathematical proofs. Set theory is then introduced and serves as the basis for defining relations, functions, numbers, mathematical induction, ordinals, and cardinals. The book concludes with a primer on basic model theory with applications to abstract algebra. A First Course in Mathematical Logic and Set Theory also includes: Section exercises designed to show the interactions between topics and reinforce the presented ideas and concepts Numerous examples that illustrate theorems and employ basic concepts such as Euclid's lemma, the Fibonacci sequence, and unique factorization Coverage of important theorems including the well-ordering theorem, completeness theorem, compactness theorem, as well as the

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theorems of Löwenheim–Skolem, Burali-Forti, Hartogs,

Cantor–Schröder–Bernstein, and König

An excellent textbook for students

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in *Mathematical Logic and Set Theory* is

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computer science. In addition, the book is

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more. 1960 edition.

The axiomatic theory of sets is a vibrant part of pure mathematics, with its own basic notions, fundamental results, and deep open problems. It is also viewed as a foundation of mathematics so that "to make a notion precise" simply means "to define it in set theory." This book gives a solid introduction to "pure set theory" through transfinite recursion and the construction of the cumulative hierarchy of sets, and also attempts to explain how mathematical objects can be faithfully modeled within the universe of sets. In this new edition the author has added solutions to the exercises, and rearranged and reworked the text to improve the presentation.

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