

Logic and Number Theory

7.1 Combinatorics

7.1.1 *Sum and product*

Definition 7.1. The sum $a_1 + a_2 + \cdots + a_n$ and the product $a_1 \cdot a_2 \cdot \cdots \cdot a_n$ are written as

$$\sum_{k=1}^n a_k \quad \text{and} \quad \prod_{k=1}^n a_k, \text{ respectively.} \quad (7.1)$$

$\sum$ is called the sum symbol and $\prod$ is called the product symbol. The summation and the product can have other *indices* than 1 and n . k is called *dummy index* and can be replaced by any other symbol which is not included in the expression of a_k :s.

Sequences and sums are introduced on page 307 and subsequent pages.

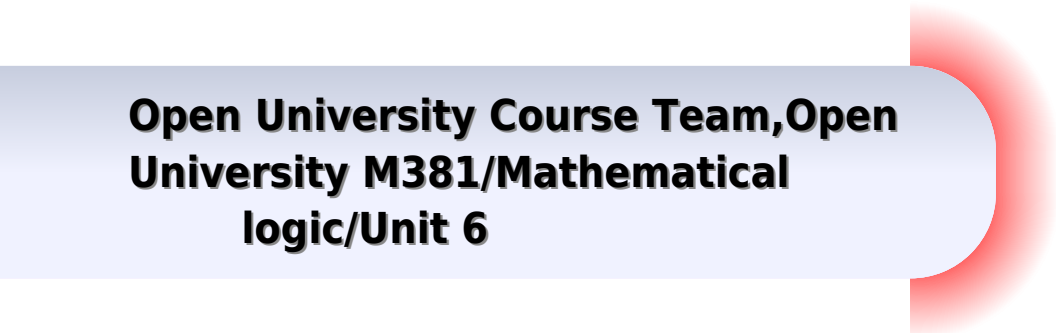
7.1.2 *Factorials*

Example 7.1. The product $1 \cdot 2 \cdot 3 \cdot 4$ is written $\prod_{k=1}^4 k$. This product of consecutive integers is also written $4!$ (reads “four-factorial”).

In the following definitions, n represents a non-negative integer.

Number Theory And Mathematical Logic

**Open University Course Team, Open
University M381/Mathematical
logic/Unit 6**



Number Theory And Mathematical Logic:

Logical Number Theory I Craig Smorynski, 2012-12-06 Number theory as studied by the logician is the subject matter of the book This first volume can stand on its own as a somewhat unorthodox introduction to mathematical logic for undergraduates dealing with the usual introductory material recursion theory first order logic completeness incompleteness and undecidability In addition its second chapter contains the most complete logical discussion of Diophantine Decision Problems available anywhere taking the reader right up to the frontiers of research yet remaining accessible to the undergraduate The first and third chapters also offer greater depth and breadth in logico arithmetical matters than can be found in existing logic texts Each chapter contains numerous exercises historical and other comments aimed at developing the student's perspective on the subject and a partially annotated bibliography *Set Theory And Foundations Of Mathematics: An Introduction To Mathematical Logic - Volume I: Set Theory* Douglas Cenzer, Jean Larson, Christopher Porter, Jindrich Zapletal, 2020-04-04 This book provides an introduction to axiomatic set theory and descriptive set theory It is written for the upper level undergraduate or beginning graduate students to help them prepare for advanced study in set theory and mathematical logic as well as other areas of mathematics such as analysis topology and algebra The book is designed as a flexible and accessible text for a one semester introductory course in set theory where the existing alternatives may be more demanding or specialized Readers will learn the universally accepted basis of the field with several popular topics added as an option Pointers to more advanced study are scattered throughout the text Number Theory and Mathematical Logic, 2002 **Introduction to Mathematical Logic, Fourth Edition** Elliott Mendelson, 1997-06-01 The Fourth Edition of this long established text retains all the key features of the previous editions covering the basic topics of a solid first course in mathematical logic This edition includes an extensive appendix on second order logic a section on set theory with urelements and a section on the logic that results when we allow models with empty domains The text contains numerous exercises and an appendix furnishes answers to many of them Introduction to Mathematical Logic includes propositional logic first order logic first order number theory and the incompleteness and undecidability theorems of Gödel Rosser Church and Tarski axiomatic set theory theory of computability The study of mathematical logic axiomatic set theory and computability theory provides an understanding of the fundamental assumptions and proof techniques that form basis of mathematics Logic and computability theory have also become indispensable tools in theoretical computer science including artificial intelligence Introduction to Mathematical Logic covers these topics in a clear reader friendly style that will be valued by anyone working in computer science as well as lecturers and researchers in mathematics philosophy and related fields **Number Theory and Mathematical Logic** Open University Course Team, Open University M381/Mathematical logic/Unit 6, 2004-01 In this unit we complete the description of the formal system started in units ML04 and ML05 and use the system to produce more complex formal proofs We then discuss how to use it as a framework for proving theorems of

number theory Mathematics of the 19th Century KOLMOGOROV, YUSHKEVICH, 2013-11-11 This multi authored effort Mathematics of the nineteenth century to be followed by Mathematics of the twentieth century is a sequel to the History of mathematics from antiquity to the early nineteenth century published in three 1 volumes from 1970 to 1972 For reasons explained below our discussion of twentieth century mathematics ends with the 1930s Our general objectives are identical with those stated in the preface to the three volume edition i.e. we consider the development of mathematics not simply as the process of perfecting concepts and techniques for studying real world spatial forms and quantitative relationships but as a social process as well Mathematical structures once established are capable of a certain degree of autonomous development In the final analysis however such immanent mathematical evolution is conditioned by practical activity and is either self directed or as is most often the case is determined by the needs of society Proceeding from this premise we intend first to unravel the forces that shape mathematical progress We examine the interaction of mathematics with the social structure technology the natural sciences and philosophy Through an analysis of mathematical history proper we hope to delineate the relationships among the various mathematical disciplines and to evaluate mathematical achievements in the light of the current state and future prospects of the science The difficulties confronting us considerably exceeded those encountered in preparing the three volume edition *Number Theory and Mathematical Logic* Open University Course Team, Open University M381/Mathematical logic/Unit 7, 2004-01 In this unit we look at some theorems of a small but deeply significant fragment of number theory called Q We introduce the notion of a function being representable in a formal system We shall discover that although Q is quite a weak theory it is sufficiently powerful to allow all total recursive functions as discussed in unit ML03 to be representable in Q This unit concludes with a discussion of diagonalization and Gödel's Diagonal Lemma

Problems in Set Theory, Mathematical Logic and the Theory of Algorithms Igor Lavrov, Larisa Maksimova, 2012-12-06 Problems in Set Theory Mathematical Logic and the Theory of Algorithms by I Lavrov L Maksimova is an English translation of the fourth edition of the most popular student problem book in mathematical logic in Russian It covers major classical topics in proof theory and the semantics of propositional and predicate logic as well as set theory and computation theory Each chapter begins with 1-2 pages of terminology and definitions that make the book self contained Solutions are provided The book is likely to become an essential part of curricula in logic *Introduction to Mathematical Logic* Elliot Mendelsohn, 1987-02-28 This is a compact introduction to some of the principal topics of mathematical logic In the belief that beginners should be exposed to the most natural and easiest proofs I have used free swinging set theoretic methods The significance of a demand for constructive proofs can be evaluated only after a certain amount of experience with mathematical logic has been obtained If we are to be expelled from Cantor's paradise as nonconstructive set theory was called by Hilbert at least we should know what we are missing The major changes in this new edition are the following 1 In Chapter 5 Effective Computability Turing computability is now the central notion and diagrams flow charts are used to

construct Turing machines There are also treatments of Markov algorithms Herbrand Godel computability register machines and random access machines Recursion theory is gone into a little more deeply including the $s-m-n$ theorem the recursion theorem and Rice's Theorem 2 The proofs of the Incompleteness Theorems are now based upon the Diagonalization Lemma Lob's Theorem and its connection with Godel's Second Theorem are also studied 3 In Chapter 2 Quantification Theory Henkin's proof of the completeness theorem has been postponed until the reader has gained more experience in proof techniques The exposition of the proof itself has been improved by breaking it down into smaller pieces and using the notion of a scapegoat theory There is also an entirely new section on semantic trees

Lectures in Logic and Set Theory: Volume 1, Mathematical Logic George Tourlakis, 2003-01-09 This two volume work bridges the gap between introductory expositions of logic or set theory on one hand and the research literature on the other It can be used as a text in an advanced undergraduate or beginning graduate course in mathematics computer science or philosophy The volumes are written in a user friendly conversational lecture style that makes them equally effective for self study or class use Volume 1 includes formal proof techniques a section on applications of compactness including nonstandard analysis a generous dose of computability and its relation to the incompleteness phenomenon and the first presentation of a complete proof of Godel's 2nd incompleteness since Hilbert and Bernays Grundgesetze theorem

A First Course in Mathematical Logic and Set Theory Michael L. O'Leary, 2015-10-21 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 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 theorems of Löwenheim Skolem Burali-Forti Hartogs Cantor Schröder Bernstein and König An excellent textbook for students studying the foundations of mathematics and mathematical proofs A First Course in Mathematical Logic and Set Theory is also appropriate for readers preparing for careers in mathematics education or computer science In addition the book is ideal for introductory courses on mathematical logic and or set theory and appropriate for upper undergraduate transition courses with rigorous mathematical reasoning involving algebra number theory or analysis

Number Theory and Mathematical Logic Alan Best, Open

University. Number Theory and Mathematical Logic Course Team, 1996-12 Finite continued fractions Infinite continued fractions The continued fraction algorithm Rational approximations **Mathematical Logic** Roman Kossak, 2024-04-18 This textbook is a second edition of the successful *Mathematical Logic On Numbers Sets Structures and Symmetry* It retains the original two parts found in the first edition while presenting new material in the form of an added third part to the textbook The textbook offers a slow introduction to mathematical logic and several basic concepts of model theory such as first order definability types symmetries and elementary extensions Part I Logic Sets and Numbers shows how mathematical logic is used to develop the number structures of classical mathematics All necessary concepts are introduced exactly as they would be in a course in mathematical logic but are accompanied by more extensive introductory remarks and examples to motivate formal developments The second part Relations Structures Geometry introduces several basic concepts of model theory such as first order definability types symmetries and elementary extensions and shows how they are used to study and classify mathematical structures The added Part III to the book is closer to what one finds in standard introductory mathematical textbooks Definitions theorems and proofs that are introduced are still preceded by remarks that motivate the material but the exposition is more formal and includes more advanced topics The focus is on the notion of countable categoricity which is analyzed in detail using examples from the first two parts of the book This textbook is suitable for graduate students in mathematical logic and set theory and will also be of interest to mathematicians who know the technical aspects of the subject but are not familiar with its history and philosophical background Logic Without Borders Åsa Hirvonen, Juha Kontinen, Roman Kossak, Andrés Villaveces, 2015-03-10 In recent years mathematical logic has developed in many directions the initial unity of its subject matter giving way to a myriad of seemingly unrelated areas The articles collected here which range from historical scholarship to recent research in geometric model theory squarely address this development These articles also connect to the diverse work of Vanninen whose ecumenical approach to logic reflects the unity of the discipline Algebra, Mathematical Logic, Number Theory, Topology Ivan Matveevich Vinogradov, 1986 Collection of papers on the current research in algebra mathematical logic number theory and topology *Mathematical Logic* Joseph R. Shoenfield, 2018-05-02 This classic introduction to the main areas of mathematical logic provides the basis for a first graduate course in the subject It embodies the viewpoint that mathematical logic is not a collection of vaguely related results but a coherent method of attacking some of the most interesting problems which face the mathematician The author presents the basic concepts in an unusually clear and accessible fashion concentrating on what he views as the central topics of mathematical logic proof theory model theory recursion theory axiomatic number theory and set theory There are many exercises and they provide the outline of what amounts to a second book that goes into all topics in more depth This book has played a role in the education of many mature and accomplished researchers *Set Theory and Logic* Robert R. Stoll, 2012-05-23 Explores sets and relations the natural number sequence and its generalization extension of natural

numbers to real numbers logic informal axiomatic mathematics Boolean algebras informal axiomatic set theory several algebraic theories and 1st order theories Introduction to Mathematical Logic Jerome Malitz, 2012-12-06 This book is intended as an undergraduate senior level or beginning graduate level text for mathematical logic There are virtually no prere quisites although a familiarity with notions encountered in a beginning course in abstract algebra such as groups rings and fields will be useful in providing some motivation for the topics in Part III An attempt has been made to develop the beginning of each part slowly and then to gradually quicken the pace and the complexity of the material Each part ends with a brief introduction to selected topics of current interest The text is divided into three parts one dealing with set theory another with computable function theory and the last with model theory Part III relies heavily on the notation concepts and results discussed in Part I and to some extent on Part II Parts I and II are independent of each other and each provides enough material for a one semester course The exercises cover a wide range of difficulty with an emphasis on more routine problems in the earlier sections of each part in order to familiarize the reader with the new notions and methods The more difficult exercises are accompanied by hints In some cases significant theorems are devel oped step by step with hints in the problems Such theorems are not used later in the sequence *Number Theory and Mathematical Logic* Open University Course Team, 2004-01-01 In this unit we introduce a formal proof system for handling the formal statements introduced in unit ML04 giving most of its rules and illustrating their use to produce some simple formal proofs **Notes on Logic and Set Theory** P. T. Johnstone, 1987-10-08 This short textbook provides a succinct introduction to mathematical logic and set theory which together form the foundations for the rigorous development of mathematics It will be suitable for all mathematics undergraduates coming to the subject for the first time The book is based on lectures given at the University of Cambridge and covers the basic concepts of logic first order logic consistency and the completeness theorem before introducing the reader to the fundamentals of axiomatic set theory There are also chapters on recursive functions the axiom of choice ordinal and cardinal arithmetic and the incompleteness theorems Dr Johnstone has included numerous exercises designed to illustrate the key elements of the theory and to provide applications of basic logical concepts to other areas of mathematics Consequently the book while making an attractive first textbook for those who plan to specialise in logic will be particularly valuable for mathematics and computer scientists whose primary interests lie elsewhere

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Table of Contents **Number Theory And Mathematical Logic**

1. Understanding the eBook **Number Theory And Mathematical Logic**
 - The Rise of Digital Reading **Number Theory And Mathematical Logic**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Number Theory And Mathematical Logic**
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an **Number Theory And Mathematical Logic**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Number Theory And Mathematical Logic**
 - Personalized Recommendations
 - **Number Theory And Mathematical Logic** User Reviews and Ratings
 - **Number Theory And Mathematical Logic** and Bestseller Lists

5. Accessing Number Theory And Mathematical Logic Free and Paid eBooks
 - Number Theory And Mathematical Logic Public Domain eBooks
 - Number Theory And Mathematical Logic eBook Subscription Services
 - Number Theory And Mathematical Logic Budget-Friendly Options
6. Navigating Number Theory And Mathematical Logic eBook Formats
 - ePub, PDF, MOBI, and More
 - Number Theory And Mathematical Logic Compatibility with Devices
 - Number Theory And Mathematical Logic Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Number Theory And Mathematical Logic
 - Highlighting and Note-Taking Number Theory And Mathematical Logic
 - Interactive Elements Number Theory And Mathematical Logic
8. Staying Engaged with Number Theory And Mathematical Logic
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Number Theory And Mathematical Logic
9. Balancing eBooks and Physical Books Number Theory And Mathematical Logic
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Number Theory And Mathematical Logic
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Number Theory And Mathematical Logic
 - Setting Reading Goals Number Theory And Mathematical Logic
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Number Theory And Mathematical Logic
 - Fact-Checking eBook Content of Number Theory And Mathematical Logic
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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