# 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

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

 $\sum$  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**

DOUGLAS. PORTER CENZER
(CHRISTOPHER. ZAPLETAL, JINDRICH.)

#### **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 DOUGLAS. PORTER CENZER (CHRISTOPHER. ZAPLETAL, JINDRICH.),2025 **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 urlements 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 G del Rosser Church and Tarski axiomatic set 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 Mathematics of the 19th Century KOLMOGOROV, YUSHKEVICH, 2013-11-11 This multi authored effort number theory Mathematics of the nineteenth century to be followed by Mathematics of the twentieth century is a seguel to the History of mathematics fram 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 mathe matical progress We examine the interaction of mathematics with the social structure technology the natural sciences and philosophy Throughan 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 G del s Diagonal Lemma

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 Bernay s Grundlagen theorem Introduction to Mathematical Logic Elliot Mendelsohn, 1987-02-28 This is a compact mtroduction to some of the pnncipal 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 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 L wenheim Skolem Burali Forti Hartogs Cantor Schr der Bernstein and K nig 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

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