# 1

# Basics of constructive algebraic number theory

## 1.1. Introduction

*Algebraic numbers* are defined as complex numbers $x$ satisfying an *algebraic equation* of the form

$$a_0 x^n + a_1 x^{n-1} + \cdots + a_n = 0 \quad (n \in \mathbb{N}; a_i \in \mathbb{Z} \; (0 \le i \le n), a_0 \ne 0). \quad (1.1)$$

We are not satisfied merely with the existence of algebraic numbers such as, for instance,

the natural numbers $1, 2, 3, \ldots (\mathbb{N})$,

rational integers $0, \pm 1, \pm 2, \ldots (\mathbb{Z})$,

rational numbers $0, \pm 1, \pm \frac{1}{2}, \pm 2, \pm \frac{1}{3}, \pm \frac{2}{3}, \pm 3, \ldots (\mathbb{Q})$,

surds $r^{1/n} \; (r \in \mathbb{Q}, n \in \mathbb{N}, n \ge 2)$;

we also inspect the means of constructing them. For this purpose we employ *algorithms*.

We shall not endeavour to give a definition of algorithms in terms of mathematical logics. Our algorithms consist of a stated input, a stated output and a finite number of well-defined steps. The input and output will usually be rational integers and quantities (such as fractions, algebraic integers, integral matrices) derived from rational integers by stated rules. The steps are numbered from 1 to $n$ ($n \in \mathbb{N}$). They consist of statements which use the known data (from the input, or already calculated) to obtain new data by unique mathematical rules. The steps are usually carried out one after the other. But there can also be a jump from step $i$ to step $k$ ($k \ne i + 1$) depending on the value of some data. The mathematical rules for the computation of new data and for the decision, whether a jump occurs, are fixed throughout the whole algorithm. During the execution of the algorithm a certain step $i$ ($1 \le i \le n$) may be carried out several times, say $N(i)$ times, depending on the input data. However, all numbers $N(i)$ ($1 \le i \le n$) must be finite.

# Algorithmic Algebraic Number Theory

**Patrick Vollmar**

**Algorithmic Algebraic Number Theory:**

   **Algorithmic Algebraic Number Theory** M. Pohst,H. Zassenhaus,1997-09-25 Now in paperback this classic book is addresssed to all lovers of number theory On the one hand it gives a comprehensive introduction to constructive algebraic number theory and is therefore especially suited as a textbook for a course on that subject On the other hand many parts go beyond an introduction an make the user familliar with recent research in the field For experimental number theoreticians new methods are developed and new results are obtained which are of great importance for them Both computer scientists interested in higher arithmetic and those teaching algebraic number theory will find the book of value      **Algorithmic Algebraic Number Theory** M. Pohst,1989      **Algorithmic Algebra and Number Theory** B.Heinrich Matzat,Gert-Martin Greuel,Gerhard Hiss,2012-12-06 This book contains 22 lectures presented at the final conference of the Ger man research program Schwerpunktprogramm Algorithmic Number The ory and Algebra 1991 1997 sponsored by the Deutsche Forschungsgemein schaft The purpose of this research program and of the meeting was to bring together developers of computer algebra software and researchers using com putational methods to gain insight into experimental problems and theoret ical questions in algebra and number theory The book gives an overview on algorithmic methods and on results ob tained during this period This includes survey articles on the main research projects within the program algorithmic number theory emphasizing class field theory constructive Galois theory computational aspects of modular forms and of Drinfeld modules computational algebraic geometry including real quantifier elimination and real algebraic geometry and invariant theory of finite groups computational aspects of presentations and representations of groups especially finite groups of Lie type and their Heeke algebras and of the isomorphism problem in group theory Some of the articles illustrate the current state of computer algebra sys tems and program packages developed with support by the research pro gram such as KANT and LiDIA for algebraic number theory SINGULAR RED LOG and INVAR for commutative algebra and invariant theory respec tively and GAP SYSYPHOS and CHEVIE for group theory and representation theory      **Algorithmic algebraic number theory** Michael Pohst,Hans J. Zassenhaus,1989      *Algorithmic Number Theory: Efficient algorithms* Eric Bach,Jeffrey Outlaw Shallit,1996 Volume 1      **Algorithmic Number Theory** Guillaume Hanrot,Francois Morain,Emmanuel Thomé,2010-07-07 This book constitutes the refereed proceedings of the 9th International Algorithmic Number Theory Symposium ANTS 2010 held in Nancy France in July 2010 The 25 revised full papers presented together with 5 invited papers were carefully reviewed and selected for inclusion in the book The papers are devoted to algorithmic aspects of number theory including elementary number theory algebraic number theory analytic number theory geometry of numbers algebraic geometry finite fields and cryptography      *Algorithmic Number Theory* Florian Hess,Sebastian Pauli,Michael Pohst,2006-10-05 This book constitutes the refereed proceedings of the 7th International Algorithmic Number Theory Symposium ANTS 2006 held in Berlin July 2006 The book presents 37 revised full papers together with 4 invited papers

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lattice points Algebraic number fields Introduction Basic Arithmetic Computation of an integral basis Integral closure Round Two Method Round Four Method Computation of the unit group Dirichlet s unit theorem and a regulator bound Two methods for computing r independent units Fundamental unit computation Computation of the class group Ideals and class number A method for computing the class group Appendix The number field sieve KANT References Index      Algorithmic Number Theory Joe P. Buhler,1998-06-05 The field of diagnostic nuclear medicine has changed significantly during the past decade This volume is designed to present the student and the professional with a comprehensive update of recent developments not found in other textbooks on the subject The various clinical applications of nuclear medicine techniques are extensively considered and due attention is given also to radiopharmaceuticals equipment and instrumentation reconstruction techniques and the principles of gene imaging      On the Complexity of Some Problems in Algorithmic Algebraic Number Theory Christoph Thiel,1995      **An Algorithmic Theory of Numbers, Graphs and Convexity** Laszlo Lovasz,1987-01-01 Studies two algorithms in detail the ellipsoid method and the simultaneous diophantine approximation method

*Algorithmic and Experimental Methods in Algebra, Geometry, and Number Theory* Gebhard Böckle,Wolfram Decker,Gunter Malle,2018-03-22 This book presents state of the art research and survey articles that highlight work done within the Priority Program SPP 1489 Algorithmic and Experimental Methods in Algebra Geometry and Number Theory which was established and generously supported by the German Research Foundation DFG from 2010 to 2016 The goal of the program was to substantially advance algorithmic and experimental methods in the aforementioned disciplines to combine the different methods where necessary and to apply them to central questions in theory and practice Of particular concern was the further development of freely available open source computer algebra systems and their interaction in order to create powerful new computational tools that transcend the boundaries of the individual disciplines involved The book covers a broad range of topics addressing the design and theoretical foundations implementation and the successful application of algebraic algorithms in order to solve mathematical research problems It offers a valuable resource for all researchers from graduate students through established experts who are interested in the computational aspects of algebra geometry and or number theory      **Algorithmic Number Theory** Henri Cohen,1996-08-07 This book constitutes the refereed post conference proceedings of the Second International Algorithmic Number Theory Symposium ANTS II held in Talence France in May 1996 The 35 revised full papers included in the book were selected from a variety of submissions They cover a broad spectrum of topics and report state of the art research results in computational number theory and complexity theory Among the issues addressed are number fields computation Abelian varieties factoring algorithms finite fields elliptic curves algorithm complexity lattice theory and coding      **Algorithmic Number Theory** Florian Hess,Sebastian Pauli,Michael Pohst,2006-10-05 This book constitutes the refereed proceedings of the 7th International Algorithmic Number Theory Symposium ANTS 2006 held in Berlin July 2006 The book presents 37 revised full papers together with 4 invited

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