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Basics of constructive algebraic number theory

1.1. Introduction

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

$$a_0x^n + a_1x^{n-1} + \dots + a_n = 0 \quad (n \in \mathbb{N}; a_i \in \mathbb{Z} \quad (0 \leq i \leq n), a_0 \neq 0). \quad (1.1)$$

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

- the natural numbers $1, 2, 3, \dots (\mathbb{N})$,
- rational integers $0, \pm 1, \pm 2, \dots (\mathbb{Z})$,
- rational numbers $0, \pm 1, \pm \frac{1}{2}, \pm 2, \pm \frac{1}{3}, \pm \frac{2}{3}, \pm 3, \dots (\mathbb{Q})$,
- surds $r^{1/n}$ ($r \in \mathbb{Q}, n \in \mathbb{N}, n \geq 2$);

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 ($k \neq i + 1$) 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 ($1 \leq i \leq n$) may be carried out several times, say $N(i)$ times, depending on the input data. However, all numbers $N(i)$ ($1 \leq i \leq n$) must be finite.

Algorithmic Algebraic Number Theory

Michael Hoelscher



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