

Vorkurs Mathematik– Teil II, Analysis

Inhalt

1. Konvergenz
2. Grundlegendes über Funktionen, Stetigkeit, Ableitung und Integral
3. Der Hauptsatz der Differential- und Integralrechnung
4. Elementare Funktionen

1.1 Konvergenz - Motivation

Wie wir gesehen haben, ist $\sqrt{2}$ nicht als ein Bruch darstellbar. Das bedeutet, dass $\sqrt{2}$ eine Dezimaldarstellung hat, die weder abbricht, noch irgendwann periodisch wird. Benutzung eines Taschenrechners ergibt nach dem Eintippen von $\sqrt{2}$ eine Ausgabe von

1.414213562373095

aber diese Zahl ist gleich

1414213562373095
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also ein Bruch und kann deswegen nicht gleich $\sqrt{2}$ sein. Das legt daran, dass man die Dezimaldarstellung von $\sqrt{2}$ nicht einfach abbrechen lassen kann. Sie vollständig hinschreiben kann man aber auch nicht, es sei denn, man hat unendlich lange Zeit.

1.1 Konvergenz - Motivation

Das bedeutet, wir müssen neu darüber nachdenken, was es überhaupt heissen soll, eine irrationale Zahl hinzuschreiben. Im Beispiel der Wurzel aus zwei wissen wir, dass $\sqrt{2} = 1.41421$ eine Zahl ist, deren Dezimaldarstellung mit 5 Nullen nach dem Komma beginnt, d.h.

$$\left| \sqrt{2} - 1.41421 \right| = 0.00000\text{igenschein} < 0.00001 = 10^{-5}.$$

Wir können also $\sqrt{2}$ durch eine Zahlenfolge $(a_n)_{n \in \mathbb{N}}$ mit $a_1 = 1$, $a_2 = 1.4$, $a_3 = 1.41$, $a_4 = 1.414$ usw. (d.h. a_n ist die Dezimalentwicklung von $\sqrt{2}$ bis zur $(n-1)$ -ten Stelle nach dem Komma) darstellen. Diese Folge hat die Eigenschaft, dass $|\sqrt{2} - a_n| < 10^{-(n-1)}$ ist, d.h. a_n liefert eine immer bessere Näherung der Wurzel aus zwei.

Wenn wir ein bisschen weiter darüber nachdenken, ist sowohl die speziell ausgewählte Folge, als auch die Eigenschaft, dass sich die Approximation in jedem Schritt verbessert, nicht entscheidend. So erhalten wir durch Abstraktion dieser speziellen Situation die Definition von Folgen und ihrer Konvergenz.

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