

## 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  
000000000000000

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.

# Mathematik Heute Vorkurs Analysis

**Jicheng Xie**



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## **Table of Contents Mathematik Heute Vorkurs Analysis**

1. Understanding the eBook Mathematik Heute Vorkurs Analysis
  - The Rise of Digital Reading Mathematik Heute Vorkurs Analysis
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematik Heute Vorkurs Analysis
  - 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 Mathematik Heute Vorkurs Analysis
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematik Heute Vorkurs Analysis
  - Personalized Recommendations
  - Mathematik Heute Vorkurs Analysis User Reviews and Ratings
  - Mathematik Heute Vorkurs Analysis and Bestseller Lists
5. Accessing Mathematik Heute Vorkurs Analysis Free and Paid eBooks

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