

Numerical Analysis (The Bisection Method)

Introduction

The bisection method is simple, robust, and straight-forward: take an interval $[a, b]$ such that $f(a)$ and $f(b)$ have opposite signs, find the midpoint of $[a, b]$, and then decide whether the root lies on $[a, (a + b)/2]$ or $[(a + b)/2, b]$. Repeat until the interval is sufficiently small.

Background

Useful background for this topic includes:

- 3. Iteration
- 8. Bracketing

References

- [Bradis](#), Section 2.1, The Bisection Method, p.58.
- [Mathews](#), Section 2.2, Bisection Method of Bolzano, p.53.
- [Weisstein](http://mathworld.wolfram.com/Bisection.html), <http://mathworld.wolfram.com/Bisection.html>.

Theory

Intermediate Value Theorem (IVT)

Given a continuous real-valued function $f(x)$ defined on an interval $[a, b]$, then if y is a point between the values of $f(a)$ and $f(b)$, then there exists a point r such that $y = f(r)$.

As an example, consider the function $f(x) = \sin(x)$ defined on $[1, 6]$. The function is continuous on this interval, and the point 0.5 lies between the values of $\sin(1) = 0.841$ and $\sin(6) = -0.279$. Thus, there is at least one point r (there may be more) on the interval $[1, 6]$ such that $\sin(r) = 0.5$. In this case, $r = 2.61799$. This is shown in Figure 1.



Figure 1. The IVT applied to $\sin(x)$ on $[1, 6]$ with $y = 0.5$.

Using the IVT to Bound a Root

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Table of Contents Numerical Analysis Bsc Bisection Method Notes

1. Understanding the eBook Numerical Analysis Bsc Bisection Method Notes
 - The Rise of Digital Reading Numerical Analysis Bsc Bisection Method Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Numerical Analysis Bsc Bisection Method Notes
 - 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 Numerical Analysis Bsc Bisection Method Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Numerical Analysis Bsc Bisection Method Notes
 - Personalized Recommendations
 - Numerical Analysis Bsc Bisection Method Notes User Reviews and Ratings
 - Numerical Analysis Bsc Bisection Method Notes and Bestseller Lists

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