

## Numerical Analysis Questions and Answers - Bisection Method - 1

This set of Numerical Analysis Multiple Choice Questions & Answers (MCQs) focuses on "Bisection Method - 1".

1. Using Bisection method find the root of  $\cos(x) - x * e^{-x} = 0$  with  $a = 0$  and  $b = 1$ .

- a) 0.617
- b) 0.527
- c) 0.517
- d) 0.717

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Answer: c

Explanation: Iteration table is given as follows:

No.	a	b	c	f(a)*f(b)
1	0	1	0.5	0.053
2	0.5	1	0.75	-0.046
3	0.5	0.75	0.625	-0.357
4	0.5	0.625	0.562	-7.52*10 <sup>-2</sup>
5	0.5	0.562	0.531	-2.168*10 <sup>-2</sup>
6	0.5	0.531	0.516	3.648*10 <sup>-3</sup>
7	0.516	0.531	0.524	-9.371*10 <sup>-3</sup>
8	0.516	0.524	0.520	-3.649*10 <sup>-3</sup>
9	0.516	0.520	0.518	-3.941*10 <sup>-3</sup>
10	0.516	0.516	0.517	1.229*10 <sup>-3</sup>

The difference between final values is less than 0.01 hence we stop the iterations.

So one of the roots of  $\cos(x) - x * \exp(x) = 0$  is approximately 0.517.

2. Find the root of  $x^2 - x - 10 = 0$  approximately upto 5 iterations using Bisection Method. Let  $a = 1.5$  and  $b = 2$ .

- a) 1.68
- b) 1.86
- c) 1.88
- d) 1.66

[View Answer](#)

Answer: b

Explanation: Iteration table is given as follows:

No.	a	b	c	f(a)*f(b)
1	1.5	2	1.75	15.264(+ve)

# Numerical Analysis Questions And Answers

**R Barnett**



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### **Table of Contents Numerical Analysis Questions And Answers**

1. Understanding the eBook Numerical Analysis Questions And Answers
  - The Rise of Digital Reading Numerical Analysis Questions And Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Numerical Analysis Questions And Answers
  - 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 Questions And Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Numerical Analysis Questions And Answers
  - Personalized Recommendations

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

- 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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