

1. The equation $3x^2 - 4x - 3e^{-x} = 0$ has exactly one real root.

(a) Differentiate $f(x) = 3x^2 - 4x - 3e^{-x}$ (2)

(b) Explain why the maximum point of $f(x)$ cannot be found by setting your answer to part (a) to 0. (1)

(c) Use your answer to part (a) to show how that the Newton Raphson formula can be written in the form,

$$x_{n+1} = \frac{3x_n^2 + 3(x_n + 1)e^{-x_n}}{6x_n - 4 + 3e^{-x_n}} \quad (3)$$

(d) Using $x_1 = 2$ and the formula given in part (a), find the values of x_2 , x_3 and x_4 . (3)

(e) State an approximation for the root to 3 decimal places. (1)

2. Relative to a fixed origin, O, the position vectors A , B and C are,

$$A: (ai + \sqrt{2}j + 5k) \quad B: (2i - 3j - 4k) \quad C: (bi + 3j - 2k)$$

Where a and b are constants and $a > 0$ and $b < 0$

Given that, $|\vec{OA}| = 6$

(a) Find the value of a . (3)

(b) D is the position vector such that $\vec{AB} = \vec{BD}$
Find the position vector D . (2)

(c) Given $|\vec{BC}| = 7$, find the value of b . (2)

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1. Understanding the eBook 2012 2013 Maths State Past Papers Answers
 - The Rise of Digital Reading 2012 2013 Maths State Past Papers Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying 2012 2013 Maths State Past Papers 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 2012 2013 Maths State Past Papers Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2012 2013 Maths State Past Papers Answers
 - Personalized Recommendations

- 2012 2013 Maths State Past Papers Answers User Reviews and Ratings
- 2012 2013 Maths State Past Papers Answers and Bestseller Lists

5. Accessing 2012 2013 Maths State Past Papers Answers Free and Paid eBooks

- 2012 2013 Maths State Past Papers Answers Public Domain eBooks
- 2012 2013 Maths State Past Papers Answers eBook Subscription Services
- 2012 2013 Maths State Past Papers Answers Budget-Friendly Options

6. Navigating 2012 2013 Maths State Past Papers Answers eBook Formats

- ePUB, PDF, MOBI, and More
- 2012 2013 Maths State Past Papers Answers Compatibility with Devices
- 2012 2013 Maths State Past Papers Answers Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of 2012 2013 Maths State Past Papers Answers
- Highlighting and Note-Taking 2012 2013 Maths State Past Papers Answers
- Interactive Elements 2012 2013 Maths State Past Papers Answers

8. Staying Engaged with 2012 2013 Maths State Past Papers Answers

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers 2012 2013 Maths State Past Papers Answers

9. Balancing eBooks and Physical Books 2012 2013 Maths State Past Papers Answers

- Benefits of a Digital Library
- Creating a Diverse Reading Collection 2012 2013 Maths State Past Papers Answers

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine 2012 2013 Maths State Past Papers Answers

- Setting Reading Goals 2012 2013 Maths State Past Papers Answers
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of 2012 2013 Maths State Past Papers Answers

- Fact-Checking eBook Content of 2012 2013 Maths State Past Papers 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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pans and line the bottoms with a circle of parchment or wax paper in a

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