

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,
- $$x_{n+1} = \frac{3x_n^2 + 3(x_n + 1)e^{-x_n}}{6x_n - 4 + 3e^{-x_n}}$$
- (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,  $|\overrightarrow{OA}| = 6$
- (a) Find the value of  $a$ . (3)
- (b)  $D$  is the position vector such that  $\overrightarrow{AB} = \overrightarrow{BD}$   
Find the position vector  $D$ . (2)
- (c) Given  $|\overrightarrow{BC}| = 7$ , find the value of  $b$ . (2)

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  - 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
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  - 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
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  - 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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web to make the cake set a rack in the middle of the oven and preheat to 350 degrees f lightly butter two 9 inch round cake

pans and line the bottoms with a circle of parchment or wax paper in a

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