$$f(x) = 25x^2e^{2x} - 16, \qquad x \in \mathbb{R}$$

(a) Using calculus, find the exact coordinates of the turning points on the curve with equation y = f(x).

(5)

(b) Show that the equation f(x) = 0 can be written as $x = \pm \frac{4}{5}e^{-x}$

(1)

The equation f(x) = 0 has a root α , where $\alpha = 0.5$ to 1 decimal place.

(c) Starting with $x_0 = 0.5$, use the iteration formula

$$x_{n+1} = \frac{4}{5} e^{-x_n}$$

to calculate the values of x_1 , x_2 and x_3 , giving your answers to 3 decimal places.

(3)

(d) Give an accurate estimate for α to 2 decimal places, and justify your answer.

(2)

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G Psacharopoulos

June 2013 Edexcel C3 Maths:

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- 1. Understanding the eBook June 2013 Edexcel C3 Maths
 - The Rise of Digital Reading June 2013 Edexcel C3 Maths
 - Advantages of eBooks Over Traditional Books
- 2. Identifying June 2013 Edexcel C3 Maths
 - 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 June 2013 Edexcel C3 Maths
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from June 2013 Edexcel C3 Maths
 - Personalized Recommendations
 - June 2013 Edexcel C3 Maths User Reviews and Ratings
 - June 2013 Edexcel C3 Maths and Bestseller Lists
- 5. Accessing June 2013 Edexcel C3 Maths Free and Paid eBooks
 - June 2013 Edexcel C3 Maths Public Domain eBooks
 - June 2013 Edexcel C3 Maths eBook Subscription Services
 - June 2013 Edexcel C3 Maths Budget-Friendly Options
- 6. Navigating June 2013 Edexcel C3 Maths eBook Formats
 - o ePub, PDF, MOBI, and More
 - June 2013 Edexcel C3 Maths Compatibility with Devices
 - June 2013 Edexcel C3 Maths Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of June 2013 Edexcel C3 Maths
 - Highlighting and Note-Taking June 2013 Edexcel C3 Maths
 - o Interactive Elements June 2013 Edexcel C3 Maths
- 8. Staying Engaged with June 2013 Edexcel C3 Maths

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers June 2013 Edexcel C3 Maths
- 9. Balancing eBooks and Physical Books June 2013 Edexcel C3 Maths
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection June 2013 Edexcel C3 Maths
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine June 2013 Edexcel C3 Maths
 - Setting Reading Goals June 2013 Edexcel C3 Maths
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of June 2013 Edexcel C3 Maths
 - Fact-Checking eBook Content of June 2013 Edexcel C3 Maths
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - $\circ \ \ Integration \ of \ Multimedia \ Elements$
 - Interactive and Gamified eBooks

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