

Subject - Math AA(Standard Level)
Topic - Calculus
Year - May 2021 - Nov 2022
Paper -1
Questions

Question 1

[Maximum mark: 16]

Let $f(x) = \frac{\ln 5x}{kx}$ where $x > 0$, $k \in \mathbb{R}^+$.

- (a) Show that $f'(x) = \frac{1 - \ln 5x}{kx^2}$. [3]

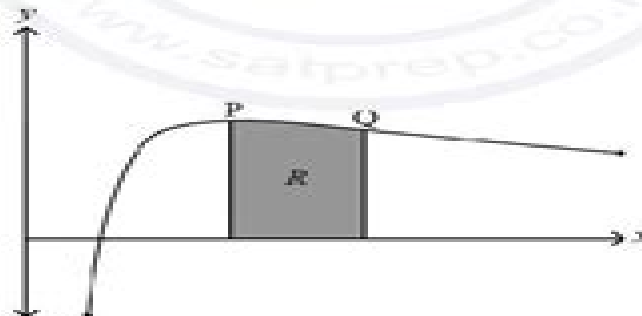
The graph of f has exactly one maximum point P .

- (b) Find the x -coordinate of P . [3]

The second derivative of f is given by $f''(x) = \frac{2 \ln 5x - 3}{kx^3}$. The graph of f has exactly one point of inflexion Q .

- (c) Show that the x -coordinate of Q is $\frac{1}{5}e^{\frac{3}{2}}$. [3]

The region R is enclosed by the graph of f , the x -axis, and the vertical lines through the maximum point P and the point of inflexion Q .



- (d) Given that the area of R is 3, find the value of k . [7]

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Table of Contents Maths Studies Sl Past Paper 23

1. Understanding the eBook Maths Studies Sl Past Paper 23
 - The Rise of Digital Reading Maths Studies Sl Past Paper 23
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Studies Sl Past Paper 23
 - 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 Maths Studies Sl Past Paper 23
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Studies Sl Past Paper 23
 - Personalized Recommendations
 - Maths Studies Sl Past Paper 23 User Reviews and Ratings
 - Maths Studies Sl Past Paper 23 and Bestseller Lists
5. Accessing Maths Studies Sl Past Paper 23 Free and Paid eBooks
 - Maths Studies Sl Past Paper 23 Public Domain eBooks
 - Maths Studies Sl Past Paper 23 eBook Subscription Services
 - Maths Studies Sl Past Paper 23 Budget-Friendly Options
6. Navigating Maths Studies Sl Past Paper 23 eBook Formats

- ePub, PDF, MOBI, and More
- Maths Studies Sl Past Paper 23 Compatibility with Devices
- Maths Studies Sl Past Paper 23 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Studies Sl Past Paper 23
 - Highlighting and Note-Taking Maths Studies Sl Past Paper 23
 - Interactive Elements Maths Studies Sl Past Paper 23
- 8. Staying Engaged with Maths Studies Sl Past Paper 23
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Studies Sl Past Paper 23
- 9. Balancing eBooks and Physical Books Maths Studies Sl Past Paper 23
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Studies Sl Past Paper 23
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Studies Sl Past Paper 23
 - Setting Reading Goals Maths Studies Sl Past Paper 23
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Studies Sl Past Paper 23
 - Fact-Checking eBook Content of Maths Studies Sl Past Paper 23
 - 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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