

Subject – Math (Standard Level)  
Topic – Calculus  
Year – Nov 2011 – Nov 2019  
Paper -2

Question 1

*(Maximum mark: 15)*

Let  $f(x) = \frac{20x}{e^{0.5x}}$ , for  $0 \leq x \leq 20$ .

- (a) Sketch the graph of  $f$ . *[3 marks]*
- (b) (i) Write down the  $x$ -coordinate of the maximum point on the graph of  $f$ .  
(ii) Write down the interval where  $f$  is increasing. *[3 marks]*
- (c) Show that  $f'(x) = \frac{20-6x}{e^{0.5x}}$ . *[5 marks]*
- (d) Find the interval where the rate of change of  $f$  is increasing. *[4 marks]*

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**O García**



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### **Table of Contents Paper Math Sl Studies**

1. Understanding the eBook Paper Math Sl Studies
  - The Rise of Digital Reading Paper Math Sl Studies
  - Advantages of eBooks Over Traditional Books
2. Identifying Paper Math Sl Studies
  - 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 Paper Math Sl Studies
  - User-Friendly Interface
4. Exploring eBook Recommendations from Paper Math Sl Studies
  - Personalized Recommendations
  - Paper Math Sl Studies User Reviews and Ratings
  - Paper Math Sl Studies and Bestseller Lists

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