

Subject - Math AA(Standard Level)
Topic - Calculus
Year - May 2021 - Nov 2022
Paper -2
Questions

Question 1

[Maximum mark: 7]

The displacement, in centimetres, of a particle from an origin, O, at time t seconds, is given by $s(t) = t^2 \cos t + 2t \sin t$, $0 \leq t \leq 5$.

- (a) Find the maximum distance of the particle from O. [3]
- (b) Find the acceleration of the particle at the instant it first changes direction. [4]

Question 2

[Maximum mark: 15]

Consider the function f defined by $f(x) = 90e^{-0.5x}$ for $x \in \mathbb{R}^+$.

The graph of f and the line $y = x$ intersect at point P.

- (a) Find the x -coordinate of P. [2]

The line L has a gradient of -1 and is a tangent to the graph of f at the point Q.

- (b) Find the exact coordinates of Q. [4]
- (c) Show that the equation of L is $y = -x + 2 \ln 45 + 2$. [2]

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Table of Contents Maths Studies Sl Past Paper 2013

1. Understanding the eBook Maths Studies Sl Past Paper 2013
 - The Rise of Digital Reading Maths Studies Sl Past Paper 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Studies Sl Past Paper 2013
 - 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 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Studies Sl Past Paper 2013
 - Personalized Recommendations
 - Maths Studies Sl Past Paper 2013 User Reviews and Ratings
 - Maths Studies Sl Past Paper 2013 and Bestseller Lists
5. Accessing Maths Studies Sl Past Paper 2013 Free and Paid eBooks
 - Maths Studies Sl Past Paper 2013 Public Domain eBooks
 - Maths Studies Sl Past Paper 2013 eBook Subscription Services
 - Maths Studies Sl Past Paper 2013 Budget-Friendly Options

6. Navigating Maths Studies SI Past Paper 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Studies SI Past Paper 2013 Compatibility with Devices
 - Maths Studies SI Past Paper 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Studies SI Past Paper 2013
 - Highlighting and Note-Taking Maths Studies SI Past Paper 2013
 - Interactive Elements Maths Studies SI Past Paper 2013
8. Staying Engaged with Maths Studies SI Past Paper 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Studies SI Past Paper 2013
9. Balancing eBooks and Physical Books Maths Studies SI Past Paper 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Studies SI Past Paper 2013
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Studies SI Past Paper 2013
 - Setting Reading Goals Maths Studies SI Past Paper 2013
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Studies SI Past Paper 2013
 - Fact-Checking eBook Content of Maths Studies SI Past Paper 2013
 - 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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