

Answer all the questions.

**Section A (37 marks)**

- 1 (a) By considering  $(r+1)^3 - r^3$ , find  $\sum_{r=1}^n (3r^2 + 3r + 1)$ . [3]

- (b) Use this result to find  $\sum_{r=1}^n r(r+1)$ , expressing your answer in fully factorised form. [4]

- 2 In this question you must show detailed reasoning.

Find the exact value of  $\int_3^{\infty} \frac{1}{x^2 - 4x + 5} \, dx$ . [5]

- 3 In this question you must show detailed reasoning.

Solve the equation  $3 \cosh x = 2 \sinh^2 x$ , giving your solutions in exact logarithmic form. [6]

- 4 (a) A transformation with associated matrix  $\begin{pmatrix} m & 2 & 1 \\ 0 & 1 & -2 \\ 2 & 0 & 3 \end{pmatrix}$ , where  $m$  is a constant, maps the vertices of a cube to points that all lie in a plane.

Find  $m$ . [3]

- (b) The transformations S and T of the plane have associated matrices M and N respectively, where  $M = \begin{pmatrix} k & 1 \\ -3 & 4 \end{pmatrix}$  and the determinant of N is  $3k+1$ . The transformation U is equivalent to the combined transformation consisting of S followed by T.

Given that U preserves orientation and has an area scale factor 2, find the possible values of  $k$ . [4]

- 5 (a) Sketch the polar curve  $r = a(1 - \cos \theta)$ ,  $0 \leq \theta < 2\pi$ , where  $a$  is a positive constant. [2]

- (b) Determine the exact area of the region enclosed by the curve. [5]

- 6 Prove by mathematical induction that  $\begin{pmatrix} 2 & 0 \\ -1 & 1 \end{pmatrix}^n = \begin{pmatrix} 2^n & 0 \\ 1-2^n & 1 \end{pmatrix}$  for all positive integers  $n$ . [5]

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**Jianjun Gao**



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### **Table of Contents Ocr Mathematics Past Paper J517 2011**

1. Understanding the eBook Ocr Mathematics Past Paper J517 2011
  - The Rise of Digital Reading Ocr Mathematics Past Paper J517 2011
  - Advantages of eBooks Over Traditional Books
2. Identifying Ocr Mathematics Past Paper J517 2011
  - 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 Ocr Mathematics Past Paper J517 2011
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr Mathematics Past Paper J517 2011
  - Personalized Recommendations
  - Ocr Mathematics Past Paper J517 2011 User Reviews and Ratings
  - Ocr Mathematics Past Paper J517 2011 and Bestseller Lists

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  - Ocr Mathematics Past Paper J517 2011 Public Domain eBooks
  - Ocr Mathematics Past Paper J517 2011 eBook Subscription Services
  - Ocr Mathematics Past Paper J517 2011 Budget-Friendly Options
6. Navigating Ocr Mathematics Past Paper J517 2011 eBook Formats
  - ePub, PDF, MOBI, and More
  - Ocr Mathematics Past Paper J517 2011 Compatibility with Devices
  - Ocr Mathematics Past Paper J517 2011 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ocr Mathematics Past Paper J517 2011
  - Highlighting and Note-Taking Ocr Mathematics Past Paper J517 2011
  - Interactive Elements Ocr Mathematics Past Paper J517 2011
8. Staying Engaged with Ocr Mathematics Past Paper J517 2011
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ocr Mathematics Past Paper J517 2011
9. Balancing eBooks and Physical Books Ocr Mathematics Past Paper J517 2011
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ocr Mathematics Past Paper J517 2011
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Ocr Mathematics Past Paper J517 2011
  - Setting Reading Goals Ocr Mathematics Past Paper J517 2011
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ocr Mathematics Past Paper J517 2011
  - Fact-Checking eBook Content of Ocr Mathematics Past Paper J517 2011
  - 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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questions page 18 problems exercise 1 exercise 2a exercise 2b exercise 2c exercise

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