

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]

# Mei June 2013 Question Papers

**Wolfgang Guggemos**



**Mei June 2013 Question Papers:**

This book delves into Mei June 2013 Question Papers. Mei June 2013 Question Papers is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Mei June 2013 Question Papers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Mei June 2013 Question Papers
- Chapter 2: Essential Elements of Mei June 2013 Question Papers
- Chapter 3: Mei June 2013 Question Papers in Everyday Life
- Chapter 4: Mei June 2013 Question Papers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Mei June 2013 Question Papers. The first chapter will explore what Mei June 2013 Question Papers is, why Mei June 2013 Question Papers is vital, and how to effectively learn about Mei June 2013 Question Papers.
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territorial and political subdivision of a state county seat

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