

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 $\int_2^{\infty} \frac{1}{x^2 - 4x + 5} dx$. [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 $\begin{pmatrix} w & 2 & 1 \\ 0 & 1 & -2 \\ 2 & 0 & 3 \end{pmatrix}$, where w is a constant, maps the vertices of a cube to points that all lie in a plane. Find w . [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 $r = a(1 - \cos \theta)$, $0 < \theta < 2\pi$, 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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Table of Contents Level Pure Mathematics Question Papers With Answers

1. Understanding the eBook Level Pure Mathematics Question Papers With Answers
 - The Rise of Digital Reading Level Pure Mathematics Question Papers With Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Level Pure Mathematics Question Papers With Answers
 - 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 eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Level Pure Mathematics Question Papers With Answers
 - Personalized Recommendations
 - Level Pure Mathematics Question Papers With Answers User Reviews and Ratings
 - Level Pure Mathematics Question Papers With Answers and Bestseller Lists

5. Accessing Level Pure Mathematics Question Papers With Answers Free and Paid eBooks
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 - Level Pure Mathematics Question Papers With Answers Enhanced eBook Features
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 - Highlighting and Note-Taking Level Pure Mathematics Question Papers With Answers
 - Interactive Elements Level Pure Mathematics Question Papers With Answers
8. Staying Engaged with Level Pure Mathematics Question Papers With Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Level Pure Mathematics Question Papers With Answers
9. Balancing eBooks and Physical Books Level Pure Mathematics Question Papers With Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Level Pure Mathematics Question Papers With Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Level Pure Mathematics Question Papers With Answers
 - Setting Reading Goals Level Pure Mathematics Question Papers With Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Level Pure Mathematics Question Papers With Answers
 - Fact-Checking eBook Content of Level Pure Mathematics Question Papers With Answers
 - 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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