

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. [3]
- 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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JS Bruner



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OCR Year 1/AS Mathematics Exam Practice Jan Dangerfield, Rose Jewell, Sue Pope, Andrew Roberts, Nick Geere, 2018-03-29

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14 sifat cahaya ini penjelasan contoh lengkapnya - Jul 27 2022

web sifat sifat cahaya dalam praktiknya cahaya sebagai gelombang energi memiliki sifat atau karakteristik yang dapat dijadikan sebagai tujuan dan fungsinya dalam kehidupan sehari hari sifat cahaya ini memiliki perbedaan dengan bentuk energy lain seperti bunyi getaran dan sebagainya

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web jan 12 2022 cahaya adalah energi berbentuk gelombang elektromagnetik yang tidak membutuhkan medium dalam perambatannya benda yang dapat memancarkan cahaya disebut sumber cahaya sumber cahaya di tata surya kita yang paling besar adalah matahari jarak matahari ke bumi sekitar 149 6 juta kilometer

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web aug 29 2023 secara keseluruhan sifat sifat cahaya sebagai gelombang elektromagnetik sangat penting dan memiliki pengaruh yang besar dalam kehidupan sehari hari dengan memahami sifat sifat cahaya kita dapat memanfaatkan cahaya dengan lebih baik dan memahami fenomena fenomena alam yang terkait dengan cahaya 3 cahaya