Answer all the questions.

Section A (37 marks)

- 1 (a) By considering $(r+1)^3 r^3$, find $\sum_{r=1}^{\infty} (3r^2 + 3r + 1)$. [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 $\begin{bmatrix} m & 2 & 1 \\ 0 & 1 & -2 \\ 2 & 0 & 3 \end{bmatrix}$, where m is a constant, maps the vertices of a cube to points that all lie in a plane.

(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 $r = a(1 \cos \theta)$, $0 \le \theta \le 2\pi$, where α 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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