

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 .

(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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inspections on Army Apprenticeships conducted in 2013 rated the overall effectiveness as good This was an improvement over the last inspection in 2009 rated as satisfactory now called requires improvement Some 28 per cent of Army recruits were less than 18 years of age Further information is needed on why the Army is so dependent on recruiting personnel under the age of 18 years compared to the other two Services and whether steps are being taken to reduce this dependency Of those recruited in 2012 35 per cent of the Army were rated at entry level 2 for literacy that of a 7 to 8 year old and 39 per cent had a literacy level of an eleven year old If as the MoD states it has to recruit personnel at whatever level of attainment is available then it should boost remedial action when recruitment entry standards are particularly low In light of changes brought about by Future Force 2020 it may be that recruiting personnel with higher levels of attainment would better meet the future needs of the Armed Forces Whilst the Committee recognises that some recruits may not be eager to take further academic exams the MoD should encourage more recruits to undertake English and Maths GCSEs which would stand them in good stead for future employment The MoD has carried out some useful pilot projects with paramedic training and should identify more potential projects to ensure that vital skills paid for by the MoD are not lost to the country

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