

LINEAR MATHEMATICS 1: ASSIGNMENT 1

Due: 30 September 2024

Time : 6 hours

Answer **ALL** questions and show all necessary working

A1. Given that the matrix A

$$A = \begin{bmatrix} 1 & 0 & 2a \\ 2 & a & 1 \\ -1 & 3 & 2 \end{bmatrix}$$

find two values of a for which A is singular.

[6]

A2. (a) Find real numbers x and y such that $3x + 2iy - ix + 5y = 7 + 5i$

[4]

(b) Let $\mathbf{A} = 3\vec{i} - 4\vec{j} + 5\vec{k}$ and $\mathbf{B} = 2\vec{i} - \vec{j} - 6\vec{k}$. Find

(i) the acute angle between \mathbf{A} and \mathbf{B}

(ii) the orthogonal projection of \mathbf{B} onto \mathbf{A} .

[5,4]

A3. A line passes through the points $P(-3, 3, -2)$ and $Q(2, -1, 4)$. Find

(a) the parametric equations.

[5]

(b) the symmetric equations.

[3]

A4. (a) Represent in polar form $\frac{i\sqrt{2}}{3 + 3i}$.

[7]

(b) Evaluate the determinant

$$\begin{bmatrix} 1 & 3 & 1 \\ 3 & 5 & -1 \\ 2 & -2 & 1 \end{bmatrix}$$

by reducing the matrix to row echelon form.

[6]

A5. Solve the following differential equations

(a) $x^2y' + x(x + 2)y = e^x$.

[5]

(b) $\frac{dy}{dx} = \frac{y}{x} + \frac{y^2}{x^2} + 1$.

[5]

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 Ravindran, 2016-01-03 This volume presents original research contributed to the 3rd Annual International Conference on
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Frontiers in Functional Equations and Analytic Inequalities George A. Anastassiou, John Michael Rassias, 2019-11-23 This
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