

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

[5]

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

[5]

# Paper 2 June 2013 Linear Maths

**DP Hallahan**



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