

Matrices Assessed Homework (30 marks)

1. Given that $M = \begin{pmatrix} 2 & p+4 \\ -p & 3 \end{pmatrix}$, show that M is non-singular for all values of p .

(Total for Question is 3 marks)

2. The matrix $M = \begin{pmatrix} a & 21 \\ b & -6 \end{pmatrix}$ is such that $M^2 = I$. Find the values of a and b .

(Total for Question is 3 marks)

3. Show that if $(AB)^2 = I$ then $AB = B^{-1}A^{-1}$.
[Hint, write $(AB)^2$ as $ABAB$]

(Total for Question is 3 marks)

4. $A = \begin{pmatrix} a & -5 \\ 2 & a+4 \end{pmatrix}$, where a is real.

a. Find $\det(A)$ in terms of a .

(2)

b. Show that the matrix A is non-singular for all values of a .

(3)

Given that $a = 0$,

c. Find A^{-1} .

(3)

(Total for Question is 8 marks)

5. The matrix M is given by $M = \begin{pmatrix} k & -1 & 1 \\ 1 & 0 & -1 \\ 3 & -2 & 1 \end{pmatrix}$, where $k \neq 1$.

a. Show that $\det(M) = 2 - 2k$.

(2)

b. Find M^{-1} in terms of k .

(5)

(Total for Question is 7 marks)

6.

a. Write the set of simultaneous equations

$$7x + 2y + z = 21$$

$$3y - z = 5$$

$$-3x + 4y - 2z = -1$$

in the form $Ax = c$ where A is a 3×3 matrix.

(1)

b. Hence, by using A^{-1} , solve the set of simultaneous equations.

(5)

(Total for Question is 6 marks)

Chapter 6 Core Teaching Resources

A Loxley



Chapter 6 Core Teaching Resources:

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institutional reform and increasing the government's role as a facilitator Teaching issues especially teaching methods of language literature and culture need to be highlighted in terms of IT based innovation and creativity after Covid 19 How especially teaching methods in applying the material Research on learning methods has also been carried out a lot especially methods that focus on students entering the new normal era or the new era after Covid 19 with innovative research and learning of language literature and culture It is interesting to reveal a major event namely the 3rd International Conference on Linguistics and Cultural Studies sponsored by the Faculty of Cultural Sciences Hasanuddin University Makassar

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