

**MAT1503
MAT103N**

May/June 2015

LINEAR ALGEBRA (MATHEMATICS)

Duration: 2 Hours

100 Marks

EXAMINERS :
FIRST -
SECONDDR. L. GOGOLOZA
DR. ZE MPONGO

MRS NH FENDKORNY

THE USE OF A POCKET CALCULATOR IS NOT PERMITTED.

This paper consists of 4 pages.

Answer all the questions. There is a total of 100 marks. 100 marks will count as full marks.

QUESTION 1

Consider the following system of linear equations:

$$\begin{aligned}x_1 + x_2 - x_3 &= 2 \\ 3x_1 + 2x_2 - x_3 &= 3 \\ -x_1 - x_2 + 2x_3 &= -1\end{aligned}$$

Write down the augmented matrix of the system, reduce the augmented matrix to generalized row-echelon form, and then determine the solution of the system.

[7]

QUESTION 2

Consider the same system of linear equations as in Question 1:

$$\begin{aligned}x_1 + x_2 - x_3 &= 2 \\ 3x_1 + 2x_2 - x_3 &= 3 \\ -x_1 - x_2 + 2x_3 &= -1\end{aligned}$$

[TURN OVER]

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