

**MAT1503  
MAT103N**

May/June 2015

**LINEAR ALGEBRA (MATHEMATICS)**

Duration: 2 Hours

100 Marks

EXAMINERS :  
FIRST -  
SECOND -DR. L. GOLODZA  
DR. ZE MPONO

MRS NH FENHORN

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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