

**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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Table of Contents Memorandum For Pyc 370unisa Question Papers

1. Understanding the eBook Memorandum For Pyc 370unisa Question Papers
 - The Rise of Digital Reading Memorandum For Pyc 370unisa Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Memorandum For Pyc 370unisa Question Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Memorandum For Pyc 370unisa Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Memorandum For Pyc 370unisa Question Papers
 - Personalized Recommendations
 - Memorandum For Pyc 370unisa Question Papers User Reviews and Ratings
 - Memorandum For Pyc 370unisa Question Papers and Bestseller Lists

5. Accessing Memorandum For Pyc 370unisa Question Papers Free and Paid eBooks
 - Memorandum For Pyc 370unisa Question Papers Public Domain eBooks
 - Memorandum For Pyc 370unisa Question Papers eBook Subscription Services
 - Memorandum For Pyc 370unisa Question Papers Budget-Friendly Options
6. Navigating Memorandum For Pyc 370unisa Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Memorandum For Pyc 370unisa Question Papers Compatibility with Devices
 - Memorandum For Pyc 370unisa Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Memorandum For Pyc 370unisa Question Papers
 - Highlighting and Note-Taking Memorandum For Pyc 370unisa Question Papers
 - Interactive Elements Memorandum For Pyc 370unisa Question Papers
8. Staying Engaged with Memorandum For Pyc 370unisa Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Memorandum For Pyc 370unisa Question Papers
9. Balancing eBooks and Physical Books Memorandum For Pyc 370unisa Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Memorandum For Pyc 370unisa Question Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Memorandum For Pyc 370unisa Question Papers
 - Setting Reading Goals Memorandum For Pyc 370unisa Question Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Memorandum For Pyc 370unisa Question Papers
 - Fact-Checking eBook Content of Memorandum For Pyc 370unisa Question Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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