

NATIONAL CERTIFICATE

MATHEMATICS N4

(16030164)

20 November 2024 (X-Paper)

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Calculators may be used.

This question paper consists of 5 pages and a 1-page formula sheet.

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QUESTION 1

- 1.1 1.1.1 Sketch the graph of  $\frac{x^2}{20} + \frac{y^2}{32} = \frac{1}{50}$ . (3)
- 1.1.2 What is the domain of the graph in QUESTION 1.1.1? (2)
- 1.1.3 Is the graph in QUESTION 1.1.1 symmetrical about both axes? (1)
- 1.1.4 Does the graph in QUESTION 1.1.1 represent a function or a relation? (1)
- 1.2 Sketch the graph of  $x = +\sqrt{27 + y^2}$ . (3)
- 1.3 Solve for  $x$  if:  
 $x^2 + 2x = -2$  (4)
- 1.4 Simplify the following and leave answer in  $a + jb$  form:

$(1 - j)^2 + (1 + j)^2$

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**D. A. Mackenzie**



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## **Table of Contents Mathematics N4 2013 Question Papers And Memorandum**

1. Understanding the eBook Mathematics N4 2013 Question Papers And Memorandum
  - The Rise of Digital Reading Mathematics N4 2013 Question Papers And Memorandum
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics N4 2013 Question Papers And Memorandum
  - 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 Mathematics N4 2013 Question Papers And Memorandum
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics N4 2013 Question Papers And Memorandum
  - Personalized Recommendations
  - Mathematics N4 2013 Question Papers And Memorandum User Reviews and Ratings
  - Mathematics N4 2013 Question Papers And Memorandum and Bestseller Lists
5. Accessing Mathematics N4 2013 Question Papers And Memorandum Free and Paid eBooks
  - Mathematics N4 2013 Question Papers And Memorandum Public Domain eBooks
  - Mathematics N4 2013 Question Papers And Memorandum eBook Subscription Services
  - Mathematics N4 2013 Question Papers And Memorandum Budget-Friendly Options

6. Navigating Mathematics N4 2013 Question Papers And Memorandum eBook Formats
  - ePub, PDF, MOBI, and More
  - Mathematics N4 2013 Question Papers And Memorandum Compatibility with Devices
  - Mathematics N4 2013 Question Papers And Memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematics N4 2013 Question Papers And Memorandum
  - Highlighting and Note-Taking Mathematics N4 2013 Question Papers And Memorandum
  - Interactive Elements Mathematics N4 2013 Question Papers And Memorandum
8. Staying Engaged with Mathematics N4 2013 Question Papers And Memorandum
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematics N4 2013 Question Papers And Memorandum
9. Balancing eBooks and Physical Books Mathematics N4 2013 Question Papers And Memorandum
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics N4 2013 Question Papers And Memorandum
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Mathematics N4 2013 Question Papers And Memorandum
  - Setting Reading Goals Mathematics N4 2013 Question Papers And Memorandum
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics N4 2013 Question Papers And Memorandum
  - Fact-Checking eBook Content of Mathematics N4 2013 Question Papers And Memorandum
  - 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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