

NATIONAL CERTIFICATE

MATHEMATICS N4

(16030164)

20 November 2024 (X-Paper)

09:00–12:00

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:

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

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TOC

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Table of Contents Mathematics N4 Question Paper

1. Understanding the eBook Mathematics N4 Question Paper
 - The Rise of Digital Reading Mathematics N4 Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics N4 Question Paper
 - 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 Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics N4 Question Paper
 - Personalized Recommendations
 - Mathematics N4 Question Paper User Reviews and Ratings
 - Mathematics N4 Question Paper and Bestseller Lists

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