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REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS  
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MATHEMATICS P1

MAY/JUNE 2023

MARKS: 100

TIME: 1 hour



## QUESTION 1

1.1 Solve for  $x$ .

1.1.1  $x^2 + 3x + 10 = 0$

1.1.2  $3x^2 + 5x + 1 = 0$  (answer in TWO decimal places)

1.1.3  $3^{2x} + 2^x = 0,004$

1.1.4  $6x + 0,04x + 1 = 0$

1.1.5  $x = \sqrt{4x + 3} + 1$

1.2 A rectangle having sides of  $(x + 3)$  metres and  $(x + 2)$  metres has a perimeter of 24 metres and an area of 10 square metres. Calculate the values of  $x$  and  $y$ .

1.3 Show that  $\frac{1}{2}(x^m + x^n)^2 - \frac{1}{2}(x^m - x^n)^2$  is divisible by 2 for all real values of  $m$  and  $n$ .

# Maths Paper 1 Grade 12 June 2011

**L Cohen**



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## **Table of Contents Maths Paper 1 Grade 12 June 2011**

1. Understanding the eBook Maths Paper 1 Grade 12 June 2011
  - The Rise of Digital Reading Maths Paper 1 Grade 12 June 2011
  - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper 1 Grade 12 June 2011
  - 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 Maths Paper 1 Grade 12 June 2011
  - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper 1 Grade 12 June 2011
  - Personalized Recommendations
  - Maths Paper 1 Grade 12 June 2011 User Reviews and Ratings
  - Maths Paper 1 Grade 12 June 2011 and Bestseller Lists
5. Accessing Maths Paper 1 Grade 12 June 2011 Free and Paid eBooks
  - Maths Paper 1 Grade 12 June 2011 Public Domain eBooks
  - Maths Paper 1 Grade 12 June 2011 eBook Subscription Services
  - Maths Paper 1 Grade 12 June 2011 Budget-Friendly Options

6. Navigating Maths Paper 1 Grade 12 June 2011 eBook Formats
  - ePub, PDF, MOBI, and More
  - Maths Paper 1 Grade 12 June 2011 Compatibility with Devices
  - Maths Paper 1 Grade 12 June 2011 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Maths Paper 1 Grade 12 June 2011
  - Highlighting and Note-Taking Maths Paper 1 Grade 12 June 2011
  - Interactive Elements Maths Paper 1 Grade 12 June 2011
8. Staying Engaged with Maths Paper 1 Grade 12 June 2011
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Maths Paper 1 Grade 12 June 2011
9. Balancing eBooks and Physical Books Maths Paper 1 Grade 12 June 2011
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Maths Paper 1 Grade 12 June 2011
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Maths Paper 1 Grade 12 June 2011
  - Setting Reading Goals Maths Paper 1 Grade 12 June 2011
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Paper 1 Grade 12 June 2011
  - Fact-Checking eBook Content of Maths Paper 1 Grade 12 June 2011
  - 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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