

MAY/JUNE 2023!



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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 $3x^2 + 2x = 0,54$

1.1.4 $3x + 0,5x + 1 = 0$

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 .

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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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