



basic education

Department  
Basic Education  
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS  
NATIONAL SENIOR CERTIFICATE EXAMINATIONS

MATHEMATICS P1

2021

MARKS: 100

TIME: 1 hour

This question paper consists of 10 pages and 1 information sheet.

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1906/2021

QUESTION 1

- 1.1 Solve for  $x$ :  
  - 1.1.1  $x^2 + 3x + 2 = 0$  (5)
  - 1.1.2  $3x^2 + x - 4 = 0$  (Show partial solution in TWO distinct parts) (10)
  - 1.1.3  $x^2 = 49$  (5)
- 1.2 Given  $y = \frac{3x}{x^2 + 2}$ :  
  - 1.2.1 Solve for  $x$  (5)
  - 1.2.2 Hence solve for  $x$ :  $2x^2 + 3x = 4$  (5)
- 1.3 Without using a calculator, calculate the value of  $\sqrt{\frac{36x^2 + 25}{121x^2}}$  (5)
- 1.4 Solve for  $x$  and  $y$  simultaneously:  
 $(x + y + 2) = \frac{1}{x}$  and  $\frac{1}{y} = 4y + 1$  (10)

QUESTION 2

- 2.1 The first term of an arithmetic sequence is 2 and the 17th term is 38.  
 Determine:  
  - 2.1.1  $d$ , the common difference of the sequence (5)
  - 2.1.2 The number of terms in the sequence if the last term of the sequence is 47 (5)
  - 2.1.3 The sum of the first 10 terms in the sequence (5)
- 2.2  $16, 25, 36, 49, \dots$  is a positive number pattern.  
  - 2.2.1 Write down the 10th term of the number pattern (5)
  - 2.2.2 Determine the  $n^{\text{th}}$  term of the number pattern (5)
  - 2.2.3 Determine the maximum value of the following number pattern:  
 $-12, -\frac{12}{2}, -\frac{12}{4}, -\frac{12}{8}, \dots$  (5)

# Mathematics Paper1 Grade 12 June 2013 Memo

**Y Pai**



**Mathematics Paper1 Grade 12 June 2013 Memo:**

## **Mathematics Paper1 Grade 12 June 2013 Memo** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mathematics Paper1 Grade 12 June 2013 Memo**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Mathematics Paper1 Grade 12 June 2013 Memo**

1. Understanding the eBook Mathematics Paper1 Grade 12 June 2013 Memo
  - The Rise of Digital Reading Mathematics Paper1 Grade 12 June 2013 Memo
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Paper1 Grade 12 June 2013 Memo
  - 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 Paper1 Grade 12 June 2013 Memo
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Paper1 Grade 12 June 2013 Memo
  - Personalized Recommendations
  - Mathematics Paper1 Grade 12 June 2013 Memo User Reviews and Ratings

- Mathematics Paper1 Grade 12 June 2013 Memo and Bestseller Lists
- 5. Accessing Mathematics Paper1 Grade 12 June 2013 Memo Free and Paid eBooks
  - Mathematics Paper1 Grade 12 June 2013 Memo Public Domain eBooks
  - Mathematics Paper1 Grade 12 June 2013 Memo eBook Subscription Services
  - Mathematics Paper1 Grade 12 June 2013 Memo Budget-Friendly Options
- 6. Navigating Mathematics Paper1 Grade 12 June 2013 Memo eBook Formats
  - ePub, PDF, MOBI, and More
  - Mathematics Paper1 Grade 12 June 2013 Memo Compatibility with Devices
  - Mathematics Paper1 Grade 12 June 2013 Memo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematics Paper1 Grade 12 June 2013 Memo
  - Highlighting and Note-Taking Mathematics Paper1 Grade 12 June 2013 Memo
  - Interactive Elements Mathematics Paper1 Grade 12 June 2013 Memo
- 8. Staying Engaged with Mathematics Paper1 Grade 12 June 2013 Memo
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematics Paper1 Grade 12 June 2013 Memo
- 9. Balancing eBooks and Physical Books Mathematics Paper1 Grade 12 June 2013 Memo
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics Paper1 Grade 12 June 2013 Memo
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics Paper1 Grade 12 June 2013 Memo
  - Setting Reading Goals Mathematics Paper1 Grade 12 June 2013 Memo
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics Paper1 Grade 12 June 2013 Memo
  - Fact-Checking eBook Content of Mathematics Paper1 Grade 12 June 2013 Memo
  - 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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