



# 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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### QUESTION 1

- 1.1 Solve for  $x$ :  
 $x^2 + 3x - 4 = 0$  (5)
- 1.2 Solve for  $x$ :  $x^2 - 1 = 4x + 3$  (Show partial solution in TWO distinct parts) (5)
- 1.3 Solve for  $x$ :  
 $x^2 + 4 = 0$  (5)
- 1.4 Solve for  $x$ :  $x^2 + 12x + 36 = 0$  (5)
- 1.5 Solve for  $x$ :  
 $x^2 + 12x + 36 = 0$  (5)
- 1.6 Solve for  $x$ :  $x^2 + 12x + 36 = 0$  (5)
- 1.7 Without using a calculator, calculate the value of:  
 $\sqrt{\frac{16}{25} + \frac{9}{16}}$  (5)
- 1.8 Solve for  $x$  and  $y$  simultaneously:  
 $2x + y = 1$  and  $\frac{1}{x} + \frac{1}{y} = 2$  (5)

### QUESTION 2

- 2.1 The first term of an arithmetic sequence is 2 and the 10th term is 35.  
 Determine:  
 2.1.1 the common difference of the sequence (2)  
 2.1.2 the number of terms in the sequence if the last term of the sequence is 47 (2)  
 2.1.3 the sum of the first 10 terms in the sequence (2)
- 2.2  $16, 25, 36, 49, \dots$  is a quadratic number pattern.  
 2.2.1 Write down the 10th term of the number pattern (2)  
 2.2.2 Determine the  $n^{\text{th}}$  term of the number pattern (2)  
 2.2.3 Determine the maximum value of the following number pattern:  
 $-12, -9, -6, -3, 0, 3, 6, 9, \dots$  (2)

# Grade12mathematics June Exemplar Paper1

**JS Bruner**



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### **Table of Contents Grade12mathematics June Exemplar Paper1**

1. Understanding the eBook Grade12mathematics June Exemplar Paper1
  - The Rise of Digital Reading Grade12mathematics June Exemplar Paper1
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade12mathematics June Exemplar Paper1
  - 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 Grade12mathematics June Exemplar Paper1
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade12mathematics June Exemplar Paper1
  - Personalized Recommendations

- Grade12mathematics June Exemplar Paper1 User Reviews and Ratings
- Grade12mathematics June Exemplar Paper1 and Bestseller Lists
- 5. Accessing Grade12mathematics June Exemplar Paper1 Free and Paid eBooks
  - Grade12mathematics June Exemplar Paper1 Public Domain eBooks
  - Grade12mathematics June Exemplar Paper1 eBook Subscription Services
  - Grade12mathematics June Exemplar Paper1 Budget-Friendly Options
- 6. Navigating Grade12mathematics June Exemplar Paper1 eBook Formats
  - ePub, PDF, MOBI, and More
  - Grade12mathematics June Exemplar Paper1 Compatibility with Devices
  - Grade12mathematics June Exemplar Paper1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Grade12mathematics June Exemplar Paper1
  - Highlighting and Note-Taking Grade12mathematics June Exemplar Paper1
  - Interactive Elements Grade12mathematics June Exemplar Paper1
- 8. Staying Engaged with Grade12mathematics June Exemplar Paper1
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade12mathematics June Exemplar Paper1
- 9. Balancing eBooks and Physical Books Grade12mathematics June Exemplar Paper1
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade12mathematics June Exemplar Paper1
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Grade12mathematics June Exemplar Paper1
  - Setting Reading Goals Grade12mathematics June Exemplar Paper1
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade12mathematics June Exemplar Paper1
  - Fact-Checking eBook Content of Grade12mathematics June Exemplar Paper1

- 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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