



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 :
 - 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 $\sqrt{\frac{36x^2 + 49}{121x^2}}$ (5)
- 1.4 Solve for x and y simultaneously:
 $(x + y + 1) = \frac{1}{x}$ 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 $10, 15, 20, 25, \dots$ is a positive number pattern.
 - 2.2.1 Write down the 100th term of the number pattern (5)
 - 2.2.2 Determine the n^{th} term of the number pattern (5)
 - 2.2.3 Determine the maximum value of the following number pattern:
 $-10, -\frac{9}{2}, -7, -\frac{5}{2}, -4, \dots$ (5)

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Peipei Pang



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Table of Contents Grade 12 June 2014 Maths Paper 1 Exemplar

1. Understanding the eBook Grade 12 June 2014 Maths Paper 1 Exemplar
 - The Rise of Digital Reading Grade 12 June 2014 Maths Paper 1 Exemplar
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 12 June 2014 Maths Paper 1 Exemplar
 - 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 Grade 12 June 2014 Maths Paper 1 Exemplar
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 12 June 2014 Maths Paper 1 Exemplar
 - Personalized Recommendations
 - Grade 12 June 2014 Maths Paper 1 Exemplar User Reviews and Ratings
 - Grade 12 June 2014 Maths Paper 1 Exemplar and Bestseller Lists
5. Accessing Grade 12 June 2014 Maths Paper 1 Exemplar Free and Paid eBooks
 - Grade 12 June 2014 Maths Paper 1 Exemplar Public Domain eBooks
 - Grade 12 June 2014 Maths Paper 1 Exemplar eBook Subscription Services

- Grade 12 June 2014 Maths Paper 1 Exemplar Budget-Friendly Options
- 6. Navigating Grade 12 June 2014 Maths Paper 1 Exemplar eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 12 June 2014 Maths Paper 1 Exemplar Compatibility with Devices
 - Grade 12 June 2014 Maths Paper 1 Exemplar Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 12 June 2014 Maths Paper 1 Exemplar
 - Highlighting and Note-Taking Grade 12 June 2014 Maths Paper 1 Exemplar
 - Interactive Elements Grade 12 June 2014 Maths Paper 1 Exemplar
- 8. Staying Engaged with Grade 12 June 2014 Maths Paper 1 Exemplar
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 12 June 2014 Maths Paper 1 Exemplar
- 9. Balancing eBooks and Physical Books Grade 12 June 2014 Maths Paper 1 Exemplar
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 12 June 2014 Maths Paper 1 Exemplar
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 12 June 2014 Maths Paper 1 Exemplar
 - Setting Reading Goals Grade 12 June 2014 Maths Paper 1 Exemplar
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 12 June 2014 Maths Paper 1 Exemplar
 - Fact-Checking eBook Content of Grade 12 June 2014 Maths Paper 1 Exemplar
 - 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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