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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:
 $(x + y + 2) = \frac{1}{x}$ 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 34.
 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 40 terms in the sequence (5)
- 2.2 $16, 25, 36, 49, \dots$ is a quadratic 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:
 $-12, -\frac{11}{2}, -\frac{9}{2}, -7, -\frac{5}{2}, \dots$ (5)

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Table of Contents Mathematics Grade12 Exemplar Memorandum Paper1

1. Understanding the eBook Mathematics Grade12 Exemplar Memorandum Paper1
 - The Rise of Digital Reading Mathematics Grade12 Exemplar Memorandum Paper1
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Grade12 Exemplar Memorandum 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 Mathematics Grade12 Exemplar Memorandum Paper1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Grade12 Exemplar Memorandum Paper1
 - Personalized Recommendations
 - Mathematics Grade12 Exemplar Memorandum Paper1 User Reviews and Ratings
 - Mathematics Grade12 Exemplar Memorandum Paper1 and Bestseller Lists
5. Accessing Mathematics Grade12 Exemplar Memorandum Paper1 Free and Paid eBooks

- Mathematics Grade12 Exemplar Memorandum Paper1 Public Domain eBooks
 - Mathematics Grade12 Exemplar Memorandum Paper1 eBook Subscription Services
 - Mathematics Grade12 Exemplar Memorandum Paper1 Budget-Friendly Options
6. Navigating Mathematics Grade12 Exemplar Memorandum Paper1 eBook Formats
- ePub, PDF, MOBI, and More
 - Mathematics Grade12 Exemplar Memorandum Paper1 Compatibility with Devices
 - Mathematics Grade12 Exemplar Memorandum Paper1 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Mathematics Grade12 Exemplar Memorandum Paper1
 - Highlighting and Note-Taking Mathematics Grade12 Exemplar Memorandum Paper1
 - Interactive Elements Mathematics Grade12 Exemplar Memorandum Paper1
8. Staying Engaged with Mathematics Grade12 Exemplar Memorandum Paper1
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Grade12 Exemplar Memorandum Paper1
9. Balancing eBooks and Physical Books Mathematics Grade12 Exemplar Memorandum Paper1
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Grade12 Exemplar Memorandum Paper1
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics Grade12 Exemplar Memorandum Paper1
- Setting Reading Goals Mathematics Grade12 Exemplar Memorandum Paper1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics Grade12 Exemplar Memorandum Paper1
- Fact-Checking eBook Content of Mathematics Grade12 Exemplar Memorandum 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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