



**GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1**

QUESTION 1

1.1 Solve for x :

1.1.1 $x^2 + 3x - 4 = 0$ (2)

1.1.2 $3x + 10x + 5 = 0$ (2)

1.1.3 $x = \sqrt{27} - 2$ (2)

1.1.4 $\log x + 2\log x = 10$ (2)

1.1.5 $x^2 = 9$ (2)

1.1.6 $2^{3x} + 4^{3x} = 32$ (2)

1.2 Simultaneously solve x and y

$x + y = 1$ and $3x^2 - 4xy + y^2 = 0$ (2)

1.3 Solve the following inequalities:

1.3.1 $x^2 + 3x - 4 < 0$ (2)

1.3.2 $-8x + 5 > 3x - 12 < 0$ (2)

P4

QUESTION 2

2.1 $x = -0.5 \pm 0.5\sqrt{2}$ are the roots of a quadratic function, $f(x)$, of which the y-intercept is 4. Determine $f(x)$. (2)

2.2 Given $g(x) = \frac{2x^2 + 1}{x}$

2.2.1 For what values of x will $g(x)$ be undefined? (2)

2.2.2 Explain why $g(x)$ will never equal zero. (Show all your calculations) (2)

2.3 Solve $x + 2\sqrt{x} - 3 < 0$. Graphically represent your answer. (2)

2.4 Simplify and leave an answer with positive exponents only:

$$\frac{x^2 - 4}{x^2 + 4x + 4} \div \frac{x^2 - 9}{x^2 + 3x}$$

(2)

2.5 Without solving the equation, determine the nature of the roots of $4x^2 + 3x + 1$. (2)

P4

QUESTION 3

3.1 The first three terms of a linear series is given as: $1x - 2$, $x + 5$, $3x + 2$

3.1.1 Determine the value of x . (2)

3.1.2 Determine the numerical value of T_5 . (2)

3.2 Given the quadratic series: $-1(2) - 4(4) - 9(9) - 16(16) \dots$

3.2.1 Determine the next two terms of the series. (2)

3.2.2 Determine T_n , the general term of the pattern. (2)

3.2.3 Given that $T_n = -n^2 + 10n - 16$, determine the largest possible numerical value for T_n . (2)

3.3 Given $T_n = 12 - 3n$:

3.3.1 Which term in the series would be equal to -178 ? (2)

3.3.2 Determine the numerical value for the 17th term. (2)

3.4 James and John look at the following patterns:

Pattern 1	Pattern 2	Pattern 3

James says if he increases the pattern number by one, squares that number and then subtracts the pattern number increased by one he will get the general formula.

John says he can derive the general formula for the number of dots by taking the number of columns in each pattern and multiplying it by the number of rows.

Who is correct between James and John? Show your answer.

(2)

P4

QUESTION 4

Given $f(x) = \frac{1}{x^2} - 1$ and $g(x) = -x^2$. The point $(1, -1)$ lies on g .

4.1 Determine the value of a . (2)

4.2 Draw a neat sketch of the two graphs on the same sets. Show all intercepts with the axes and asymptotes clearly. (2)

4.3 Determine the sets of intervals of $f(x)$ that has a positive gradient. (2)

P4

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Table of Contents Memoradam Of Mathematics Paper1 2013 November Grade 11

1. Understanding the eBook Memoradam Of Mathematics Paper1 2013 November Grade 11
 - The Rise of Digital Reading Memoradam Of Mathematics Paper1 2013 November Grade 11
 - Advantages of eBooks Over Traditional Books
2. Identifying Memoradam Of Mathematics Paper1 2013 November Grade 11
 - 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 Memoradam Of Mathematics Paper1 2013 November Grade 11
 - User-Friendly Interface
4. Exploring eBook Recommendations from Memoradam Of Mathematics Paper1 2013 November Grade 11

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

- Fact-Checking eBook Content of Memoradam Of Mathematics Paper1 2013 November Grade 11
- 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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