



**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 $x = \sqrt{17} - 2$ (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 :
 $3x + y = 4$ and $3x^2 + 4xy + y^2 = 6$ (2)
- 1.3 Solve the following inequalities:
- 1.3.1 $x^2 + 3x - 4 < 0$ (2)
- 1.3.2 $-6x + 5 > 3x - 12 < 0$ (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 $g(x) = \frac{2x^2 + 1}{x + 1}$
- 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 $x + 2\sqrt{x} + 1 = 0$. 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: $3x - 2$, $x + 5$, $2x + 2$

- 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: $-1, 20, -40, -40, 20, \dots$

- 3.2.1 Determine the next two terms of the series. (2)
- 3.2.2 Determine T_n , the general term of the series. (2)
- 3.2.3 Given that $T_n = -4n^2 + 16n - 10$, 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 -170 ? (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 A is $(1, 2)$ 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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Victor M. Corman



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Table of Contents Mathslit Nov Paper1 Grade11 Scope

1. Understanding the eBook Mathslit Nov Paper1 Grade11 Scope
 - The Rise of Digital Reading Mathslit Nov Paper1 Grade11 Scope
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathslit Nov Paper1 Grade11 Scope
 - 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 Mathslit Nov Paper1 Grade11 Scope
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathslit Nov Paper1 Grade11 Scope

- Personalized Recommendations
- Mathslit Nov Paper1 Grade11 Scope User Reviews and Ratings
- Mathslit Nov Paper1 Grade11 Scope and Bestseller Lists
- 5. Accessing Mathslit Nov Paper1 Grade11 Scope Free and Paid eBooks
 - Mathslit Nov Paper1 Grade11 Scope Public Domain eBooks
 - Mathslit Nov Paper1 Grade11 Scope eBook Subscription Services
 - Mathslit Nov Paper1 Grade11 Scope Budget-Friendly Options
- 6. Navigating Mathslit Nov Paper1 Grade11 Scope eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathslit Nov Paper1 Grade11 Scope Compatibility with Devices
 - Mathslit Nov Paper1 Grade11 Scope Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathslit Nov Paper1 Grade11 Scope
 - Highlighting and Note-Taking Mathslit Nov Paper1 Grade11 Scope
 - Interactive Elements Mathslit Nov Paper1 Grade11 Scope
- 8. Staying Engaged with Mathslit Nov Paper1 Grade11 Scope
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathslit Nov Paper1 Grade11 Scope
- 9. Balancing eBooks and Physical Books Mathslit Nov Paper1 Grade11 Scope
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathslit Nov Paper1 Grade11 Scope
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathslit Nov Paper1 Grade11 Scope
 - Setting Reading Goals Mathslit Nov Paper1 Grade11 Scope
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathslit Nov Paper1 Grade11 Scope

- Fact-Checking eBook Content of Mathslit Nov Paper1 Grade11 Scope
 - 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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