



**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
 $3x + y = 4$ and $3x^2 + 4xy + y^2 = 6$ (5)

- 1.3 Solve the following inequalities:
- 1.3.1 $x^2 + 3x - 4 < 0$ (2)
- 1.3.2 $-8x + 5 > 3x - 12 < 0$ (2)

QUESTION 2

- 2.1 $x = -0.4 \pm 0.2\sqrt{2}$ are the roots of a quadratic function, $f(x)$, of which the y-intercept is 4. Determine $f(x)$. (5)
- 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 $x + 2\sqrt{x} - 3 < 0$. Graphically represent your answer. (5)

- 2.4 Simplify and leave an answer with positive exponents only:

$$\frac{x^2 - 4}{x^2 + 2x - 3} \div \frac{x^2 + 3x - 4}{x^2 + 5x + 6}$$
 (5)

- 2.5 Without solving the equation, determine the nature of the roots of $4x^2 + 3x + 1$. (5)

QUESTION 3

- 3.1 The first three terms of a linear series is given as: $3x - 2, x + 5, 3x + 2$
- 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: $-1, 20, -40, 40, -20, \dots$
- 3.2.1 Determine the next two terms of the series. (2)
- 3.2.2 Determine T_n , the general term of the pattern. (2)
- 3.2.3 Given that $T_n = -4n^2 + 16n - 20$, 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. (5)

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. (5)
- 4.3 Determine the sets of intervals of x that has a positive gradient. (2)

Grade Eleven Mathematics Paper One Exemplar

M Lipman



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Table of Contents Grade Eleven Mathematics Paper One Exemplar

1. Understanding the eBook Grade Eleven Mathematics Paper One Exemplar
 - The Rise of Digital Reading Grade Eleven Mathematics Paper One Exemplar
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade Eleven Mathematics Paper One 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 Eleven Mathematics Paper One Exemplar
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade Eleven Mathematics Paper One Exemplar
 - Personalized Recommendations
 - Grade Eleven Mathematics Paper One Exemplar User Reviews and Ratings
 - Grade Eleven Mathematics Paper One Exemplar and Bestseller Lists
5. Accessing Grade Eleven Mathematics Paper One Exemplar Free and Paid eBooks
 - Grade Eleven Mathematics Paper One Exemplar Public Domain eBooks
 - Grade Eleven Mathematics Paper One Exemplar eBook Subscription Services
 - Grade Eleven Mathematics Paper One Exemplar Budget-Friendly Options
6. Navigating Grade Eleven Mathematics Paper One Exemplar eBook Formats

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