



**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 $3x^2 - 4xy + y^2 = 0$ (5)
- 1.3 Solve the following inequalities:
- 1.3.1 $x^2 + 3x - 4 < 0$ (2)
- 1.3.2 $-8x + 5 > (x - 2) < 0$ (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 $f(x)$. (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 $x + 2\sqrt{\frac{x}{x+1}} = 1.5$. Graphically represent your answer. (5)

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

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

(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: $-1(2) - 4(1) - 4(0) - 2(1) \dots$
- 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 $T_n = -4n^2 + 10n - 2$, 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)

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

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1. Understanding the eBook Mathematics Hl 2012 November Paper1 Ms
 - The Rise of Digital Reading Mathematics Hl 2012 November Paper1 Ms
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Hl 2012 November Paper1 Ms
 - 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 Hl 2012 November Paper1 Ms
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Hl 2012 November Paper1 Ms
 - Personalized Recommendations
 - Mathematics Hl 2012 November Paper1 Ms User Reviews and Ratings
 - Mathematics Hl 2012 November Paper1 Ms and Bestseller Lists

5. Accessing Mathematics HL 2012 November Paper1 Ms Free and Paid eBooks
 - Mathematics HL 2012 November Paper1 Ms Public Domain eBooks
 - Mathematics HL 2012 November Paper1 Ms eBook Subscription Services
 - Mathematics HL 2012 November Paper1 Ms Budget-Friendly Options
6. Navigating Mathematics HL 2012 November Paper1 Ms eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics HL 2012 November Paper1 Ms Compatibility with Devices
 - Mathematics HL 2012 November Paper1 Ms Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics HL 2012 November Paper1 Ms
 - Highlighting and Note-Taking Mathematics HL 2012 November Paper1 Ms
 - Interactive Elements Mathematics HL 2012 November Paper1 Ms
8. Staying Engaged with Mathematics HL 2012 November Paper1 Ms
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics HL 2012 November Paper1 Ms
9. Balancing eBooks and Physical Books Mathematics HL 2012 November Paper1 Ms
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics HL 2012 November Paper1 Ms
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics HL 2012 November Paper1 Ms
 - Setting Reading Goals Mathematics HL 2012 November Paper1 Ms
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics HL 2012 November Paper1 Ms
 - Fact-Checking eBook Content of Mathematics HL 2012 November Paper1 Ms
 - 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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