



**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 $x = \sqrt{25-16} + 2$ (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 $-6x + 5 > 3x - 12 < 0$ (2)

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 $x + 2\sqrt{x} + 1 < 0$. Graphically represent your answer. (5)

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

$$\frac{a^2b^3c^4}{a^3b^2c} \cdot \frac{a^4b^5c^6}{a^5b^4c^7} \div \frac{a^6b^7c^8}{a^7b^6c^9}$$
 (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: $-1, 20, -40, -60, -20, \dots$
- 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 $T_n = -4n^2 + 10n - 10$, 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 -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 $(3, -5)$ 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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Wolfgang Guggemos



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Table of Contents Maths Prep Paper1 Memorandum North West 2013

1. Understanding the eBook Maths Prep Paper1 Memorandum North West 2013
 - The Rise of Digital Reading Maths Prep Paper1 Memorandum North West 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Prep Paper1 Memorandum North West 2013
 - 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 Maths Prep Paper1 Memorandum North West 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Prep Paper1 Memorandum North West 2013
 - Personalized Recommendations
 - Maths Prep Paper1 Memorandum North West 2013 User Reviews and Ratings
 - Maths Prep Paper1 Memorandum North West 2013 and Bestseller Lists
5. Accessing Maths Prep Paper1 Memorandum North West 2013 Free and Paid eBooks

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 - Maths Prep Paper1 Memorandum North West 2013 eBook Subscription Services
 - Maths Prep Paper1 Memorandum North West 2013 Budget-Friendly Options
6. Navigating Maths Prep Paper1 Memorandum North West 2013 eBook Formats
- ePub, PDF, MOBI, and More
 - Maths Prep Paper1 Memorandum North West 2013 Compatibility with Devices
 - Maths Prep Paper1 Memorandum North West 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Maths Prep Paper1 Memorandum North West 2013
 - Highlighting and Note-Taking Maths Prep Paper1 Memorandum North West 2013
 - Interactive Elements Maths Prep Paper1 Memorandum North West 2013
8. Staying Engaged with Maths Prep Paper1 Memorandum North West 2013
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Prep Paper1 Memorandum North West 2013
9. Balancing eBooks and Physical Books Maths Prep Paper1 Memorandum North West 2013
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Prep Paper1 Memorandum North West 2013
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Prep Paper1 Memorandum North West 2013
- Setting Reading Goals Maths Prep Paper1 Memorandum North West 2013
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Prep Paper1 Memorandum North West 2013
- Fact-Checking eBook Content of Maths Prep Paper1 Memorandum North West 2013
 - 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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