



**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 :
 $x + y = 4$ 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 $-8x + 5 > 3x - 12 < 0$ (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: $1x - 2$, $x + 5$, $3x + 2$
- 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: $-1, 20, -40, -60, -20, \dots$
- 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 $T_n = -4n^2 + 10n - 20$, 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 -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. (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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Table of Contents Maths Paper1 2013 November Grade11

1. Understanding the eBook Maths Paper1 2013 November Grade11
 - The Rise of Digital Reading Maths Paper1 2013 November Grade11
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper1 2013 November Grade11
 - 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 Paper1 2013 November Grade11
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper1 2013 November Grade11

- Personalized Recommendations
- Maths Paper1 2013 November Grade11 User Reviews and Ratings
- Maths Paper1 2013 November Grade11 and Bestseller Lists
- 5. Accessing Maths Paper1 2013 November Grade11 Free and Paid eBooks
 - Maths Paper1 2013 November Grade11 Public Domain eBooks
 - Maths Paper1 2013 November Grade11 eBook Subscription Services
 - Maths Paper1 2013 November Grade11 Budget-Friendly Options
- 6. Navigating Maths Paper1 2013 November Grade11 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Paper1 2013 November Grade11 Compatibility with Devices
 - Maths Paper1 2013 November Grade11 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper1 2013 November Grade11
 - Highlighting and Note-Taking Maths Paper1 2013 November Grade11
 - Interactive Elements Maths Paper1 2013 November Grade11
- 8. Staying Engaged with Maths Paper1 2013 November Grade11
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper1 2013 November Grade11
- 9. Balancing eBooks and Physical Books Maths Paper1 2013 November Grade11
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper1 2013 November Grade11
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper1 2013 November Grade11
 - Setting Reading Goals Maths Paper1 2013 November Grade11
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper1 2013 November Grade11

- Fact-Checking eBook Content of Maths Paper1 2013 November Grade11
- 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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