



**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)

P4

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 $x + 2\sqrt{\frac{1}{x}} = 1.5$. Graphically represent your answer. (5)

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

$$\frac{x^2 + 2x + 1}{x^2 - 1} \div \frac{x^2 + 3x + 2}{x^2 - 4}$$
 (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 $T_n = -4n^2 + 16n - 10$, 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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DJ Losen



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Table of Contents Grade11 Maths P1 November Exam2014

1. Understanding the eBook Grade11 Maths P1 November Exam2014
 - The Rise of Digital Reading Grade11 Maths P1 November Exam2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade11 Maths P1 November Exam2014
 - 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 Grade11 Maths P1 November Exam2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade11 Maths P1 November Exam2014
 - Personalized Recommendations
 - Grade11 Maths P1 November Exam2014 User Reviews and Ratings
 - Grade11 Maths P1 November Exam2014 and Bestseller Lists

5. Accessing Grade11 Maths P1 November Exam2014 Free and Paid eBooks
 - Grade11 Maths P1 November Exam2014 Public Domain eBooks
 - Grade11 Maths P1 November Exam2014 eBook Subscription Services
 - Grade11 Maths P1 November Exam2014 Budget-Friendly Options
6. Navigating Grade11 Maths P1 November Exam2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade11 Maths P1 November Exam2014 Compatibility with Devices
 - Grade11 Maths P1 November Exam2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade11 Maths P1 November Exam2014
 - Highlighting and Note-Taking Grade11 Maths P1 November Exam2014
 - Interactive Elements Grade11 Maths P1 November Exam2014
8. Staying Engaged with Grade11 Maths P1 November Exam2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade11 Maths P1 November Exam2014
9. Balancing eBooks and Physical Books Grade11 Maths P1 November Exam2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade11 Maths P1 November Exam2014
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade11 Maths P1 November Exam2014
 - Setting Reading Goals Grade11 Maths P1 November Exam2014
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade11 Maths P1 November Exam2014
 - Fact-Checking eBook Content of Grade11 Maths P1 November Exam2014
 - 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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