



**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 $-6x + 5 > 3x - 12 < 0$ (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 $x + 2\sqrt{\frac{x}{x+1}} = 1.5$. Graphically represent your answer. (5)

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

$$\frac{x^2 + 2x + 1}{x^2 - 1} \div \frac{x^2 - 4}{x^2 + 3x + 2}$$
 (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 $T_n = -4n^2 + 10n - 20$, 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 $(3, -5)$ 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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Richard Bailey



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Table of Contents Grade 11 Maths Paper 1 November2014

1. Understanding the eBook Grade 11 Maths Paper 1 November2014
 - The Rise of Digital Reading Grade 11 Maths Paper 1 November2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 11 Maths Paper 1 November2014
 - 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 11 Maths Paper 1 November2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 11 Maths Paper 1 November2014
 - Personalized Recommendations
 - Grade 11 Maths Paper 1 November2014 User Reviews and Ratings
 - Grade 11 Maths Paper 1 November2014 and Bestseller Lists
5. Accessing Grade 11 Maths Paper 1 November2014 Free and Paid eBooks
 - Grade 11 Maths Paper 1 November2014 Public Domain eBooks
 - Grade 11 Maths Paper 1 November2014 eBook Subscription Services
 - Grade 11 Maths Paper 1 November2014 Budget-Friendly Options
6. Navigating Grade 11 Maths Paper 1 November2014 eBook Formats

- ePub, PDF, MOBI, and More
- Grade 11 Maths Paper 1 November2014 Compatibility with Devices
- Grade 11 Maths Paper 1 November2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 11 Maths Paper 1 November2014
 - Highlighting and Note-Taking Grade 11 Maths Paper 1 November2014
 - Interactive Elements Grade 11 Maths Paper 1 November2014
- 8. Staying Engaged with Grade 11 Maths Paper 1 November2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 11 Maths Paper 1 November2014
- 9. Balancing eBooks and Physical Books Grade 11 Maths Paper 1 November2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 11 Maths Paper 1 November2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 11 Maths Paper 1 November2014
 - Setting Reading Goals Grade 11 Maths Paper 1 November2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 11 Maths Paper 1 November2014
 - Fact-Checking eBook Content of Grade 11 Maths Paper 1 November2014
 - 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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