

**GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1**

QUESTION 1

- 1.1 Solve for x :
- 1.1.1 $x^2 - 5x - 6 = 0$ (2)
- 1.1.2 $(2x - 3)(x + 1) = 9$ (3)
- 1.1.3 $x - \sqrt{x - 1} = 3$ (4)
- 1.1.4 $x(x + 18) > -25$ (4)
- 1.1.5 $x^{\frac{1}{2}} = 4$ (3)
- 1.1.6 $2^{2x} - 2^{x+1} = 12$ (4)
- 1.2 Simultaneously solve x and y :
- $2x - y = 1$ and $3x^2 - 4xy + y^2 = 0$ (5)
- 1.3 Solve the following inequalities:
- 1.3.1 $x^2 + 5x - 6 > 0$ (3)
- 1.3.2 $-3(x + 1)(x - 2) < 0$ (3)
- [P1]**

QUESTION 2

- 2.1 $x = -3 \pm 2\sqrt{2}$ are the roots of a quadratic function, $f(x)$, of which the y -intercept is 4. Determine $f(x)$. (5)
- 2.2 Given: $g(x) = \frac{x^2 - 2x + 1}{x - 1}$
- 2.2.1 For which values of x will $g(x)$ be undefined? (2)
- 2.2.2 Explain why $g(x)$ will never equal zero. (Show all your calculations). (3)
- 2.3 Solve x if: $\frac{2-x}{x+1} < 0$. Graphically represent your answer. (5)

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

$$\frac{\sqrt[3]{x^2 y^{2x+1}}}{\sqrt[3]{x^{2x+1} y}} \quad (4)$$

- 2.5 Without solving the equation, determine the nature of the roots of: $4x^2 = 2x + 1$. (5)
- [P4]**

QUESTION 3

- 3.1 The first three terms of a linear series, is given as: $3x - 2$, $x + 1$, $2x + 5$
- 3.1.1 Determine the value of x . (3)
- 3.1.2 Determine the numerical value of T_5 . (2)
- 3.2 Given the quadratic series: $-120, -94, -68, -20, \dots$
- 3.2.1 Determine the next two terms of the series. (2)
- 3.2.1 Determine T_n , the general term of the pattern. (3)
- 3.2.3 Given that $T_n = -4n^2 + 56n - 180$, determine the largest possible numerical value for T_n . (4)
- 3.3 Given $T_n = 13 - 3n$:
- 3.3.1 Which term in the series would be equal to -179 . (3)
- 3.3.2 Determine the numerical value for the 11th 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, square that number and then subtract the pattern number increased by one he will get the general formula.

John says he can derive the general formula for the number of blocks by taking the number of columns in each pattern and multiplying it by the number of rows.

- Who is correct between James and John? Prove your answer. (5)
- [P4]**

QUESTION 4

Given: $f(x) = \frac{x^2}{x+1} - 1$ and $g(x) = -x^2$. The point $(1, -3)$ lies on g .

- 4.1 Determine the value of x . (2)
- 4.2 Draw a neat sketch of the two graphs on the same axis. Show all intercepts with the axes and asymptote clearly. (5)
- 4.3 Determine the axis of symmetry of f that has a positive gradient. (2)
- [P]**

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Table of Contents Paper 1 For Mathematics Of Grade 11 For2014

1. Understanding the eBook Paper 1 For Mathematics Of Grade 11 For2014
 - The Rise of Digital Reading Paper 1 For Mathematics Of Grade 11 For2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Paper 1 For Mathematics Of Grade 11 For2014
 - 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 Paper 1 For Mathematics Of Grade 11 For2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Paper 1 For Mathematics Of Grade 11 For2014
 - Personalized Recommendations
 - Paper 1 For Mathematics Of Grade 11 For2014 User Reviews and Ratings
 - Paper 1 For Mathematics Of Grade 11 For2014 and Bestseller Lists
5. Accessing Paper 1 For Mathematics Of Grade 11 For2014 Free and Paid eBooks
 - Paper 1 For Mathematics Of Grade 11 For2014 Public Domain eBooks
 - Paper 1 For Mathematics Of Grade 11 For2014 eBook Subscription Services

- Paper 1 For Mathematics Of Grade 11 For2014 Budget-Friendly Options
- 6. Navigating Paper 1 For Mathematics Of Grade 11 For2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Paper 1 For Mathematics Of Grade 11 For2014 Compatibility with Devices
 - Paper 1 For Mathematics Of Grade 11 For2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Paper 1 For Mathematics Of Grade 11 For2014
 - Highlighting and Note-Taking Paper 1 For Mathematics Of Grade 11 For2014
 - Interactive Elements Paper 1 For Mathematics Of Grade 11 For2014
- 8. Staying Engaged with Paper 1 For Mathematics Of Grade 11 For2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Paper 1 For Mathematics Of Grade 11 For2014
- 9. Balancing eBooks and Physical Books Paper 1 For Mathematics Of Grade 11 For2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Paper 1 For Mathematics Of Grade 11 For2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Paper 1 For Mathematics Of Grade 11 For2014
 - Setting Reading Goals Paper 1 For Mathematics Of Grade 11 For2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Paper 1 For Mathematics Of Grade 11 For2014
 - Fact-Checking eBook Content of Paper 1 For Mathematics Of Grade 11 For2014
 - 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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