

**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 $x \in \mathbb{R} : \frac{2-x}{x+1} < 0$. Graphically represent your answer. (5)

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

$$\frac{x^2 + x^{2+1}}{x^{2+1} + x}$$

(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 -17 ? (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 Grade 11 Term 4 Mathematics Paper 1 Memo 2014

1. Understanding the eBook Grade 11 Term 4 Mathematics Paper 1 Memo 2014
 - The Rise of Digital Reading Grade 11 Term 4 Mathematics Paper 1 Memo 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 11 Term 4 Mathematics Paper 1 Memo 2014
 - 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 Term 4 Mathematics Paper 1 Memo 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 11 Term 4 Mathematics Paper 1 Memo 2014
 - Personalized Recommendations
 - Grade 11 Term 4 Mathematics Paper 1 Memo 2014 User Reviews and Ratings
 - Grade 11 Term 4 Mathematics Paper 1 Memo 2014 and Bestseller Lists
5. Accessing Grade 11 Term 4 Mathematics Paper 1 Memo 2014 Free and Paid eBooks
 - Grade 11 Term 4 Mathematics Paper 1 Memo 2014 Public Domain eBooks
 - Grade 11 Term 4 Mathematics Paper 1 Memo 2014 eBook Subscription Services
 - Grade 11 Term 4 Mathematics Paper 1 Memo 2014 Budget-Friendly Options
6. Navigating Grade 11 Term 4 Mathematics Paper 1 Memo 2014 eBook Formats

- ePub, PDF, MOBI, and More
 - Grade 11 Term 4 Mathematics Paper 1 Memo 2014 Compatibility with Devices
 - Grade 11 Term 4 Mathematics Paper 1 Memo 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Grade 11 Term 4 Mathematics Paper 1 Memo 2014
 - Highlighting and Note-Taking Grade 11 Term 4 Mathematics Paper 1 Memo 2014
 - Interactive Elements Grade 11 Term 4 Mathematics Paper 1 Memo 2014
8. Staying Engaged with Grade 11 Term 4 Mathematics Paper 1 Memo 2014
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 11 Term 4 Mathematics Paper 1 Memo 2014
9. Balancing eBooks and Physical Books Grade 11 Term 4 Mathematics Paper 1 Memo 2014
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 11 Term 4 Mathematics Paper 1 Memo 2014
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 11 Term 4 Mathematics Paper 1 Memo 2014
- Setting Reading Goals Grade 11 Term 4 Mathematics Paper 1 Memo 2014
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 11 Term 4 Mathematics Paper 1 Memo 2014
- Fact-Checking eBook Content of Grade 11 Term 4 Mathematics Paper 1 Memo 2014
 - 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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