

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:

$$\frac{\sqrt{2^4 \cdot 3^{2x+1}}}{2^{2x+1}}$$

(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: $3x - 2$, $x + \frac{1}{2}$, $2x + 5$
- 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)

(P1)

Mathematics Paper 1 Grade 11 Term 3

Lei Shi

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'Lei Shi' text.

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Table of Contents Mathematics Paper 1 Grade 11 Term 3

1. Understanding the eBook Mathematics Paper 1 Grade 11 Term 3
 - The Rise of Digital Reading Mathematics Paper 1 Grade 11 Term 3
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Paper 1 Grade 11 Term 3
 - 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 Mathematics Paper 1 Grade 11 Term 3
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Paper 1 Grade 11 Term 3
 - Personalized Recommendations

- Mathematics Paper 1 Grade 11 Term 3 User Reviews and Ratings
- Mathematics Paper 1 Grade 11 Term 3 and Bestseller Lists
- 5. Accessing Mathematics Paper 1 Grade 11 Term 3 Free and Paid eBooks
 - Mathematics Paper 1 Grade 11 Term 3 Public Domain eBooks
 - Mathematics Paper 1 Grade 11 Term 3 eBook Subscription Services
 - Mathematics Paper 1 Grade 11 Term 3 Budget-Friendly Options
- 6. Navigating Mathematics Paper 1 Grade 11 Term 3 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics Paper 1 Grade 11 Term 3 Compatibility with Devices
 - Mathematics Paper 1 Grade 11 Term 3 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics Paper 1 Grade 11 Term 3
 - Highlighting and Note-Taking Mathematics Paper 1 Grade 11 Term 3
 - Interactive Elements Mathematics Paper 1 Grade 11 Term 3
- 8. Staying Engaged with Mathematics Paper 1 Grade 11 Term 3
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Paper 1 Grade 11 Term 3
- 9. Balancing eBooks and Physical Books Mathematics Paper 1 Grade 11 Term 3
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Paper 1 Grade 11 Term 3
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics Paper 1 Grade 11 Term 3
 - Setting Reading Goals Mathematics Paper 1 Grade 11 Term 3
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics Paper 1 Grade 11 Term 3
 - Fact-Checking eBook Content of Mathematics Paper 1 Grade 11 Term 3

- 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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