

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:

$$\frac{\sqrt[3]{x^2 y^{2x+1}}}{\sqrt[3]{x^{2x+1} y}}$$

(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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Kathleen Armour



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Table of Contents Nmathematics Exam Question Paper November 23

1. Understanding the eBook Nmathematics Exam Question Paper November 23
 - The Rise of Digital Reading Nmathematics Exam Question Paper November 23
 - Advantages of eBooks Over Traditional Books
2. Identifying Nmathematics Exam Question Paper November 23
 - 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 Nmathematics Exam Question Paper November 23
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nmathematics Exam Question Paper November 23
 - Personalized Recommendations
 - Nmathematics Exam Question Paper November 23 User Reviews and Ratings
 - Nmathematics Exam Question Paper November 23 and Bestseller Lists
5. Accessing Nmathematics Exam Question Paper November 23 Free and Paid eBooks

- Nmathematics Exam Question Paper November 23 Public Domain eBooks
 - Nmathematics Exam Question Paper November 23 eBook Subscription Services
 - Nmathematics Exam Question Paper November 23 Budget-Friendly Options
6. Navigating Nmathematics Exam Question Paper November 23 eBook Formats
- ePub, PDF, MOBI, and More
 - Nmathematics Exam Question Paper November 23 Compatibility with Devices
 - Nmathematics Exam Question Paper November 23 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Nmathematics Exam Question Paper November 23
 - Highlighting and Note-Taking Nmathematics Exam Question Paper November 23
 - Interactive Elements Nmathematics Exam Question Paper November 23
8. Staying Engaged with Nmathematics Exam Question Paper November 23
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nmathematics Exam Question Paper November 23
9. Balancing eBooks and Physical Books Nmathematics Exam Question Paper November 23
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nmathematics Exam Question Paper November 23
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nmathematics Exam Question Paper November 23
- Setting Reading Goals Nmathematics Exam Question Paper November 23
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nmathematics Exam Question Paper November 23
- Fact-Checking eBook Content of Nmathematics Exam Question Paper November 23
 - 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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