

**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: $3x - 2$, $x + \frac{1}{2}$, $2x + 5$
- 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)
- [P]**

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Table of Contents Platinum Grade11 Maths Caps Memo Examination Practice Paper 1

1. Understanding the eBook Platinum Grade11 Maths Caps Memo Examination Practice Paper 1
 - The Rise of Digital Reading Platinum Grade11 Maths Caps Memo Examination Practice Paper 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Platinum Grade11 Maths Caps Memo Examination Practice Paper 1
 - 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 Platinum Grade11 Maths Caps Memo Examination Practice Paper 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Platinum Grade11 Maths Caps Memo Examination Practice Paper 1
 - Personalized Recommendations
 - Platinum Grade11 Maths Caps Memo Examination Practice Paper 1 User Reviews and Ratings
 - Platinum Grade11 Maths Caps Memo Examination Practice Paper 1 and Bestseller Lists

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 - Platinum Grade11 Maths Caps Memo Examination Practice Paper 1 eBook Subscription Services
 - Platinum Grade11 Maths Caps Memo Examination Practice Paper 1 Budget-Friendly Options
6. Navigating Platinum Grade11 Maths Caps Memo Examination Practice Paper 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Platinum Grade11 Maths Caps Memo Examination Practice Paper 1 Compatibility with Devices
 - Platinum Grade11 Maths Caps Memo Examination Practice Paper 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Platinum Grade11 Maths Caps Memo Examination Practice Paper 1
 - Highlighting and Note-Taking Platinum Grade11 Maths Caps Memo Examination Practice Paper 1
 - Interactive Elements Platinum Grade11 Maths Caps Memo Examination Practice Paper 1
8. Staying Engaged with Platinum Grade11 Maths Caps Memo Examination Practice Paper 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Platinum Grade11 Maths Caps Memo Examination Practice Paper 1
9. Balancing eBooks and Physical Books Platinum Grade11 Maths Caps Memo Examination Practice Paper 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Platinum Grade11 Maths Caps Memo Examination Practice Paper 1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Platinum Grade11 Maths Caps Memo Examination Practice Paper 1
 - Setting Reading Goals Platinum Grade11 Maths Caps Memo Examination Practice Paper 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Platinum Grade11 Maths Caps Memo Examination Practice Paper 1
 - Fact-Checking eBook Content of Platinum Grade11 Maths Caps Memo Examination Practice Paper 1
 - 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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