



**GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1**

QUESTION 1

- 1.1 Solve for x :
- 1.1.1 $x^2 + 3x - 4 = 0$ (2)
- 1.1.2 $3x + 10x + 5 = 0$ (2)
- 1.1.3 $x = \sqrt{25-16} + 2$ (2)
- 1.1.4 $\log x + 2\log x = 10$ (2)
- 1.1.5 $x^2 = 9$ (2)
- 1.1.6 $2^{3x} + 4^{3x} = 32$ (2)
- 1.2 Simultaneously solve x and y :
 $x + y = 4$ and $3x^2 - 4xy + y^2 = 0$ (5)
- 1.3 Solve the following inequalities:
- 1.3.1 $x^2 + 3x - 4 < 0$ (2)
- 1.3.2 $-8x + 5 > 3x - 12 < 0$ (2)

QUESTION 2

- 2.1 $x = -0.4 \pm 0.2\sqrt{2}$ are the roots of a quadratic function, $f(x)$, of which the y-intercept is 4. Determine $f(x)$. (5)
- 2.2 Given $g(x) = \frac{2x^2 + 1}{x - 1}$
- 2.2.1 For what values of x will $g(x)$ be undefined? (2)
- 2.2.2 Explain why $g(x)$ will never equal zero. (Show all your calculations.) (2)
- 2.3 Solve $x + 2\sqrt{\frac{x}{x+1}} = 1.5$. Graphically represent your answer. (5)

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

$$\frac{x^2 - 4}{x^2 + 2x - 3} \div \frac{x^2 + 3x - 4}{x^2 - 5x + 6}$$

(2)

- 2.5 Without solving the equation, determine the nature of the roots of $4x^2 + 3x + 1$. (2)

P4

QUESTION 3

- 3.1 The first three terms of a linear series is given as: $1x - 2$, $x + 5$, $3x + 2$

- 3.1.1 Determine for value of x . (2)
- 3.1.2 Determine the numerical value of T_5 . (2)

- 3.2 Given the quadratic series: $-1, 20, -40, -40, -20, \dots$

- 3.2.1 Determine the next two terms of the series. (2)
- 3.2.2 Determine T_n , the general term of the pattern. (2)
- 3.2.3 Given that $T_n = -4n^2 + 16n - 20$, determine the largest possible numerical value for T_n . (2)

- 3.3 Given $T_n = 12 - 3n$:

- 3.3.1 Which term in the series would be equal to -170 ? (2)
- 3.3.2 Determine the numerical value for the 17th 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 nine, squares that number and then subtracts the pattern number increased by one he will get the general formula.

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

Who is correct between James and John? Show your answer.

(5)

P4

QUESTION 4

- Given: $g(x) = \frac{2x^2 + 1}{x - 1}$ and $g(x) = -x^2$. The point $(3, -5)$ lies on g .

- 4.1 Determine the value of a . (2)
- 4.2 Draw a neat sketch of the two graphs on the same sets. Show all intercepts with the axes and asymptotes clearly. (5)
- 4.3 Determine the sets of intervals of $f(x)$ that has a positive gradient. (2)

P4

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Table of Contents Iebt Maths Grade 11 Past Paper

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

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

- 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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