

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:

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

(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: $3x - 2$, $x + 1$, $2x + 5$
- 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]

Ieb Grade 11 Maths Past Papers

Anna Ferri



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Table of Contents Ieb Grade 11 Maths Past Papers

1. Understanding the eBook Ieb Grade 11 Maths Past Papers
 - The Rise of Digital Reading Ieb Grade 11 Maths Past Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ieb Grade 11 Maths Past Papers
 - 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 Ieb Grade 11 Maths Past Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ieb Grade 11 Maths Past Papers
 - Personalized Recommendations
 - Ieb Grade 11 Maths Past Papers User Reviews and Ratings
 - Ieb Grade 11 Maths Past Papers and Bestseller Lists
5. Accessing Ieb Grade 11 Maths Past Papers Free and Paid eBooks
 - Ieb Grade 11 Maths Past Papers Public Domain eBooks
 - Ieb Grade 11 Maths Past Papers eBook Subscription Services
 - Ieb Grade 11 Maths Past Papers Budget-Friendly Options
6. Navigating Ieb Grade 11 Maths Past Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Ieb Grade 11 Maths Past Papers Compatibility with Devices
 - Ieb Grade 11 Maths Past Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ieb Grade 11 Maths Past Papers
 - Highlighting and Note-Taking Ieb Grade 11 Maths Past Papers
 - Interactive Elements Ieb Grade 11 Maths Past Papers
8. Staying Engaged with Ieb Grade 11 Maths Past Papers

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ieb Grade 11 Maths Past Papers
9. Balancing eBooks and Physical Books Ieb Grade 11 Maths Past Papers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ieb Grade 11 Maths Past Papers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ieb Grade 11 Maths Past Papers
- Setting Reading Goals Ieb Grade 11 Maths Past Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ieb Grade 11 Maths Past Papers
- Fact-Checking eBook Content of Ieb Grade 11 Maths Past Papers
 - 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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