

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 -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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Padhraic Smyth



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Table of Contents Mathematics Paper 1 Final Exam 2013 Grade11

1. Understanding the eBook Mathematics Paper 1 Final Exam 2013 Grade11
 - The Rise of Digital Reading Mathematics Paper 1 Final Exam 2013 Grade11
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Paper 1 Final Exam 2013 Grade11
 - 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 Final Exam 2013 Grade11
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Paper 1 Final Exam 2013 Grade11
 - Personalized Recommendations
 - Mathematics Paper 1 Final Exam 2013 Grade11 User Reviews and Ratings

- Mathematics Paper 1 Final Exam 2013 Grade11 and Bestseller Lists
- 5. Accessing Mathematics Paper 1 Final Exam 2013 Grade11 Free and Paid eBooks
 - Mathematics Paper 1 Final Exam 2013 Grade11 Public Domain eBooks
 - Mathematics Paper 1 Final Exam 2013 Grade11 eBook Subscription Services
 - Mathematics Paper 1 Final Exam 2013 Grade11 Budget-Friendly Options
- 6. Navigating Mathematics Paper 1 Final Exam 2013 Grade11 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics Paper 1 Final Exam 2013 Grade11 Compatibility with Devices
 - Mathematics Paper 1 Final Exam 2013 Grade11 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics Paper 1 Final Exam 2013 Grade11
 - Highlighting and Note-Taking Mathematics Paper 1 Final Exam 2013 Grade11
 - Interactive Elements Mathematics Paper 1 Final Exam 2013 Grade11
- 8. Staying Engaged with Mathematics Paper 1 Final Exam 2013 Grade11
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Paper 1 Final Exam 2013 Grade11
- 9. Balancing eBooks and Physical Books Mathematics Paper 1 Final Exam 2013 Grade11
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Paper 1 Final Exam 2013 Grade11
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics Paper 1 Final Exam 2013 Grade11
 - Setting Reading Goals Mathematics Paper 1 Final Exam 2013 Grade11
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics Paper 1 Final Exam 2013 Grade11
 - Fact-Checking eBook Content of Mathematics Paper 1 Final Exam 2013 Grade11
 - 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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