

**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  $x \in \mathbb{R} : \frac{2-x}{x+1} < 0$ . 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  $T_4$ . (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 11<sup>th</sup> 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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**Thomas Griffiths**



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## **Table of Contents Mathematics P2013 Final Examination Grade 11**

1. Understanding the eBook Mathematics P2013 Final Examination Grade 11
  - The Rise of Digital Reading Mathematics P2013 Final Examination Grade 11
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics P2013 Final Examination Grade 11
  - 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 P2013 Final Examination Grade 11
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics P2013 Final Examination Grade 11
  - Personalized Recommendations
  - Mathematics P2013 Final Examination Grade 11 User Reviews and Ratings
  - Mathematics P2013 Final Examination Grade 11 and Bestseller Lists
5. Accessing Mathematics P2013 Final Examination Grade 11 Free and Paid eBooks
  - Mathematics P2013 Final Examination Grade 11 Public Domain eBooks
  - Mathematics P2013 Final Examination Grade 11 eBook Subscription Services
  - Mathematics P2013 Final Examination Grade 11 Budget-Friendly Options

6. Navigating Mathematics P2013 Final Examination Grade 11 eBook Formats
  - ePub, PDF, MOBI, and More
  - Mathematics P2013 Final Examination Grade 11 Compatibility with Devices
  - Mathematics P2013 Final Examination Grade 11 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematics P2013 Final Examination Grade 11
  - Highlighting and Note-Taking Mathematics P2013 Final Examination Grade 11
  - Interactive Elements Mathematics P2013 Final Examination Grade 11
8. Staying Engaged with Mathematics P2013 Final Examination Grade 11
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematics P2013 Final Examination Grade 11
9. Balancing eBooks and Physical Books Mathematics P2013 Final Examination Grade 11
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics P2013 Final Examination Grade 11
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Mathematics P2013 Final Examination Grade 11
  - Setting Reading Goals Mathematics P2013 Final Examination Grade 11
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics P2013 Final Examination Grade 11
  - Fact-Checking eBook Content of Mathematics P2013 Final Examination Grade 11
  - 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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