

**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 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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## **Table of Contents Mathematics Grade 11 2014 November**

1. Understanding the eBook Mathematics Grade 11 2014 November
  - The Rise of Digital Reading Mathematics Grade 11 2014 November
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Grade 11 2014 November
  - 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 Grade 11 2014 November
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Grade 11 2014 November
  - Personalized Recommendations
  - Mathematics Grade 11 2014 November User Reviews and Ratings
  - Mathematics Grade 11 2014 November and Bestseller Lists
5. Accessing Mathematics Grade 11 2014 November Free and Paid eBooks
  - Mathematics Grade 11 2014 November Public Domain eBooks
  - Mathematics Grade 11 2014 November eBook Subscription Services
  - Mathematics Grade 11 2014 November Budget-Friendly Options
6. Navigating Mathematics Grade 11 2014 November eBook Formats

- ePub, PDF, MOBI, and More
- Mathematics Grade 11 2014 November Compatibility with Devices
- Mathematics Grade 11 2014 November Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematics Grade 11 2014 November
  - Highlighting and Note-Taking Mathematics Grade 11 2014 November
  - Interactive Elements Mathematics Grade 11 2014 November
- 8. Staying Engaged with Mathematics Grade 11 2014 November
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematics Grade 11 2014 November
- 9. Balancing eBooks and Physical Books Mathematics Grade 11 2014 November
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics Grade 11 2014 November
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics Grade 11 2014 November
  - Setting Reading Goals Mathematics Grade 11 2014 November
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics Grade 11 2014 November
  - Fact-Checking eBook Content of Mathematics Grade 11 2014 November
  - 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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