



**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  $x = -0.5 \pm 0.5\sqrt{2}$  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  $x + 2\sqrt{x} - 3 < 0$ . Graphically represent your answer. (5)

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

$$\frac{a^2 b^3 c^4}{a^3 b^2 c^5} \cdot \frac{a^4 b^5 c^6}{a^5 b^4 c^7}$$

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

**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 the value of  $x$ . (2)
- 3.1.2 Determine the numerical value of  $T_5$ . (2)
- 3.2 Given the quadratic series:  $-1(2) - 4(1) - 4(0) - 2(1) \dots$
- 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  $T_n = -4n^2 + 10n - 2$ , 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  $-178$ ? (2)
- 3.3.2 Determine the numerical value for the 17<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, 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)

**QUESTION 4**

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

- 4.1 Determine the value of  $x$ . (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)

# Grade 11 Mathematics Paper 1 Memo

**Nic Spaull, Jonathan D. Jansen**



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1. Understanding the eBook Grade 11 Mathematics Paper 1 Memo
  - The Rise of Digital Reading Grade 11 Mathematics Paper 1 Memo
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 11 Mathematics Paper 1 Memo
  - 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 Grade 11 Mathematics Paper 1 Memo
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 11 Mathematics Paper 1 Memo
  - Personalized Recommendations
  - Grade 11 Mathematics Paper 1 Memo User Reviews and Ratings
  - Grade 11 Mathematics Paper 1 Memo and Bestseller Lists
5. Accessing Grade 11 Mathematics Paper 1 Memo Free and Paid eBooks

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