



**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 $x = \sqrt{17} - 2$ (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 :
 $3x + y = 4$ and $3x^2 + 4xy + y^2 = 6$ (5)
- 1.3 Solve the following inequalities:
- 1.3.1 $x^2 + 3x - 4 < 0$ (2)
- 1.3.2 $-6x + 5 > 3x - 12 < 0$ (2)
- P4**

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 $x + 2\sqrt{x} + 1 = 0$. Graphically represent your answer. (5)

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

$$\frac{x^2 - 4}{x^2 + 2x - 3} \div \frac{x^2 + 3x - 4}{x^2 - 5x + 6}$$

(2)

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

P4

QUESTION 3

- 3.1 The first three terms of a linear series is given as: $3x - 2$, $x + 5$, $2x + 3$

- 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: $-1, 20, -40, 40, -20, \dots$

- 3.2.1 Determine the next two terms of the series. (2)
- 3.2.2 Determine T_n , the general term of the series. (2)
- 3.2.3 Given that $T_n = -4n^2 + 16n - 10$, 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 -170 ? (2)
- 3.3.2 Determine the numerical value for the 17th 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)

P4

QUESTION 4

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

- 4.1 Determine the value of a . (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)

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Minjie Lin



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Table of Contents Mathspaper1 Memo Grade 11 2014 November

1. Understanding the eBook Mathspaper1 Memo Grade 11 2014 November
 - The Rise of Digital Reading Mathspaper1 Memo Grade 11 2014 November
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathspaper1 Memo 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 Mathspaper1 Memo Grade 11 2014 November
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathspaper1 Memo Grade 11 2014 November

- Personalized Recommendations
 - Mathspaper1 Memo Grade 11 2014 November User Reviews and Ratings
 - Mathspaper1 Memo Grade 11 2014 November and Bestseller Lists
5. Accessing Mathspaper1 Memo Grade 11 2014 November Free and Paid eBooks
- Mathspaper1 Memo Grade 11 2014 November Public Domain eBooks
 - Mathspaper1 Memo Grade 11 2014 November eBook Subscription Services
 - Mathspaper1 Memo Grade 11 2014 November Budget-Friendly Options
6. Navigating Mathspaper1 Memo Grade 11 2014 November eBook Formats
- ePub, PDF, MOBI, and More
 - Mathspaper1 Memo Grade 11 2014 November Compatibility with Devices
 - Mathspaper1 Memo Grade 11 2014 November Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Mathspaper1 Memo Grade 11 2014 November
 - Highlighting and Note-Taking Mathspaper1 Memo Grade 11 2014 November
 - Interactive Elements Mathspaper1 Memo Grade 11 2014 November
8. Staying Engaged with Mathspaper1 Memo Grade 11 2014 November
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathspaper1 Memo Grade 11 2014 November
9. Balancing eBooks and Physical Books Mathspaper1 Memo Grade 11 2014 November
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathspaper1 Memo Grade 11 2014 November
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathspaper1 Memo Grade 11 2014 November
- Setting Reading Goals Mathspaper1 Memo Grade 11 2014 November
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathspaper1 Memo Grade 11 2014 November

- Fact-Checking eBook Content of Mathspaper1 Memo 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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