



**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 $x = \sqrt{27} - 4$ (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)

QUESTION 2

- 2.1 $x = -0.4 \pm 0.2\sqrt{2}$ are the roots of a quadratic function, $f(x)$, of which the y-intercept is 4. Determine $f(x)$. (5)
- 2.2 Given $g(x) = \frac{2x^2 + 1}{x - 1}$
- 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:

$$\frac{2x^2 - 3x + 1}{x^2 - 4} \div \frac{x^2 - 1}{x^2 + 2x + 1}$$
 (5)
- 2.5 Without solving the equation, determine the nature of the roots of $4x^2 + 3x + 1$. (5)

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: $-4, 20, -40, 40, -20, \dots$
- 3.2.1 Determine the next two terms of the series. (2)
- 3.2.2 Determine T_n , the general term of the pattern. (2)
- 3.2.3 Given that $T_n = -4n^2 + 16n - 20$, 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 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)

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 Maths Caps Nov Paper 1

Emilie Sanchez

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Table of Contents Grade Maths Caps Nov Paper 1

1. Understanding the eBook Grade Maths Caps Nov Paper 1
 - The Rise of Digital Reading Grade Maths Caps Nov Paper 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade Maths Caps Nov Paper 1
 - 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 Maths Caps Nov Paper 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade Maths Caps Nov Paper 1
 - Personalized Recommendations
 - Grade Maths Caps Nov Paper 1 User Reviews and Ratings
 - Grade Maths Caps Nov Paper 1 and Bestseller Lists
5. Accessing Grade Maths Caps Nov Paper 1 Free and Paid eBooks
 - Grade Maths Caps Nov Paper 1 Public Domain eBooks
 - Grade Maths Caps Nov Paper 1 eBook Subscription Services
 - Grade Maths Caps Nov Paper 1 Budget-Friendly Options
6. Navigating Grade Maths Caps Nov Paper 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade Maths Caps Nov Paper 1 Compatibility with Devices
 - Grade Maths Caps Nov Paper 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade Maths Caps Nov Paper 1
 - Highlighting and Note-Taking Grade Maths Caps Nov Paper 1
 - Interactive Elements Grade Maths Caps Nov Paper 1
8. Staying Engaged with Grade Maths Caps Nov Paper 1

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade Maths Caps Nov Paper 1
9. Balancing eBooks and Physical Books Grade Maths Caps Nov Paper 1
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade Maths Caps Nov Paper 1
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade Maths Caps Nov Paper 1
- Setting Reading Goals Grade Maths Caps Nov Paper 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade Maths Caps Nov Paper 1
- Fact-Checking eBook Content of Grade Maths Caps Nov Paper 1
 - 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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