



**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 :
 $3x + y = 4$ 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 $x = -0.5 \pm 0.5\sqrt{2}$ 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:

$$\frac{2x^2 + 1}{x - 1} \div \frac{x^2 + 1}{x - 1}$$
 (5)
- 2.5 Without solving the equation, determine the nature of the roots of $4x^2 + 3x + 1 = 0$. (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: $-1, 20, -40, 40, -20, \dots$
- 3.2.1 Determine the next two terms of the series. (2)
- 3.2.2 Determine T_n , the general term of the pattern. (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 -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 |
|-----------|-----------|-----------|
| | | |
| | | |
| | | |

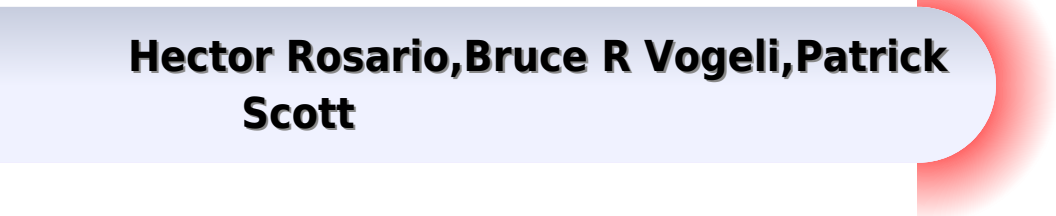
- James says if he increases the pattern number by one, squares that number and then subtracts the pattern number increased by one he will get the general formula.
- John says he can derive the general formula for the number of dots by taking the number of columns in each pattern and multiplying it by 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)

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**Hector Rosario, Bruce R Vogeli, Patrick
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Table of Contents Maths Paper 72 November 2013

1. Understanding the eBook Maths Paper 72 November 2013
 - The Rise of Digital Reading Maths Paper 72 November 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper 72 November 2013
 - 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 Maths Paper 72 November 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper 72 November 2013
 - Personalized Recommendations
 - Maths Paper 72 November 2013 User Reviews and Ratings
 - Maths Paper 72 November 2013 and Bestseller Lists
5. Accessing Maths Paper 72 November 2013 Free and Paid eBooks
 - Maths Paper 72 November 2013 Public Domain eBooks
 - Maths Paper 72 November 2013 eBook Subscription Services
 - Maths Paper 72 November 2013 Budget-Friendly Options
6. Navigating Maths Paper 72 November 2013 eBook Formats

- ePub, PDF, MOBI, and More
- Maths Paper 72 November 2013 Compatibility with Devices
- Maths Paper 72 November 2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper 72 November 2013
 - Highlighting and Note-Taking Maths Paper 72 November 2013
 - Interactive Elements Maths Paper 72 November 2013
- 8. Staying Engaged with Maths Paper 72 November 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper 72 November 2013
- 9. Balancing eBooks and Physical Books Maths Paper 72 November 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper 72 November 2013
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper 72 November 2013
 - Setting Reading Goals Maths Paper 72 November 2013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper 72 November 2013
 - Fact-Checking eBook Content of Maths Paper 72 November 2013
 - 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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