

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: $3x - 2$, $x + 1$, $2x + 5$
- 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 11th 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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WJ Hussar



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The Hungarian Girl Trap Ray Dexter,2006-07-01 Boy meets girl Boy is English girl Hungarian boy has a good job at a

very well known boarding school in England girl is an au pair who wants to get back to Hungary as soon as possible Boy discovers he knows a man who is running an International school in Hungary and he is desperate for boy to work for him Boy decides you can't fight that sort of coincidence chucks in the good job at the well known boarding school and follows the girl to Budapest This is a book about real life in one of Europe's most fascinating cities Ray Dexter shows us deep inside the Hungarian soul and also inside the minds of the expats who have also ended up in the Hungarian Girl Trap P 4 of cover

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Mathematics Today ,1998 **The Publishers' Circular and Booksellers' Record** ,1928 **The Elephant in the Classroom** Jo Boaler,2009 15 million adults in England alone struggle with maths why is this and how can teachers and parents change that with the next generation This is a practical explanation of what has gone wrong and a positive approach to improving how students of all abilities can learn mathematics

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Table of Contents Nmaths Questions Papers And Memos

1. Understanding the eBook Nmaths Questions Papers And Memos
 - The Rise of Digital Reading Nmaths Questions Papers And Memos
 - Advantages of eBooks Over Traditional Books
2. Identifying Nmaths Questions Papers And Memos
 - 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 Nmaths Questions Papers And Memos
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nmaths Questions Papers And Memos
 - Personalized Recommendations

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

- 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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