

**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 $x(x + 10) > -25$ (4)
- 1.1.5 $x^{\frac{1}{2}} = 4$ (3)
- 1.1.6 $2^x - 2^{x-1} = 12$ (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 $x = -1 \pm 2\sqrt{2}$ 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: $\frac{x+1}{x-1} < 0$. Graphically represent your answer. (5)

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

$$\frac{\sqrt{x^2 y^2 + 4}}{\sqrt{2x^2 + 4}}$$

(4)

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

(3)

[P4]

QUESTION 3

- 3.1 The first three terms of a linear series, is given as: $3x - 2, x + 9, 2x + 5$

- 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 -176 ? (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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Land, Chiefs, Mining Andrew Manson, Bernard Mbenga, 2014-09-01 Land Chiefs Mining explores aspects of the experience of the Batswana in the thornveld and bushveld regions of the North West Province shedding light on defining issues moments and individuals in this lesser known region of South Africa Some of the focuses are an important Tswana kgosi chief Moiloa II of the Bahurutshe responses to and participation in the South African War and its aftermath 1899 1907 land acquisition economic and political conditions in the reserves resistance to Mangope's Bophuthatswana the impact of game parks and the Sun City resort rural resistance and the liberation struggle and African reaction to the platinum mining revolution Written in a direct and accessible style and illustrated with photographs and maps the book provides an understanding for a general readership of the region and its recent history At the same time it opens up avenues for further research The authors Andrew Manson and Bernard Mbenga both based at North West University Mahikeng Campus have for some thirty years been studying and writing on the region's past *Annual Report Mpumalanga* (South Africa). Department of Education, 2012 The Education Gazette of the Province of the Cape of Good Hope Cape of Good Hope (South Africa). Education Department, 1920 Academic Languageing Gisela Ernst-Slavit, Margo Gottlieb, 2025-06-20 Rethink how academic languageing can transform content area teaching For years the teaching of content based academic language to multilingual learners has focused on formulas vocabulary lists and sentence patterns often sidelining students linguistic and cultural strengths Gisela Ernst Slavit and Margo Gottlieb address these challenges by embracing academic languageing an active collaborative student driven process Academic Languageing offers strategies to integrate language and content learning while fostering student engagement voice and agency Dedicated chapters on academic languageing for Language Arts Mathematics Social Studies and Science highlight the dimensions of disciplinary language for each subject and provide strategies for moving learning forward with multilingual learners Additional features include Stop and Think prompts to help educators connect new ideas with their instructional settings Prompts at the end of each chapter to encourage deeper thinking and application of the material Multilingual examples to mirror the varied classroom settings in the U S and beyond The ultimate resource for educators committed to empowering multilingual learners and fostering meaningful culturally sustaining education Academic Languageing ensures multilingual learners comprehend academic content and thrive as confident autonomous drivers of their own learning Editor & Publisher, 1925 *Contemporary Indian Education* Dr. Sanjiwani Onkar Chaudhari, Prof. Ganesh Manikrao Chandiwale, 2024-05-01 Buy Latest Contemporary Indian Education e Book for B Ed 2nd 4th Semester in English specially designed for MGKVP RTMNU Mahatma Gandhi Kashi Vidyapith Rashtrasant Tukadoji Maharaj Nagpur University By Thakur publication The Times Index, 2002 Indexes the Times and its supplements Who's who in American Education, 1992 *The Compact Edition of the Oxford English Dictionary* Sir James Augustus Henry Murray, 1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933 Children's

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Table of Contents November 2012 Grade 11 Maths North West

1. Understanding the eBook November 2012 Grade 11 Maths North West
 - The Rise of Digital Reading November 2012 Grade 11 Maths North West
 - Advantages of eBooks Over Traditional Books
2. Identifying November 2012 Grade 11 Maths North West
 - 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 November 2012 Grade 11 Maths North West
 - User-Friendly Interface
4. Exploring eBook Recommendations from November 2012 Grade 11 Maths North West
 - Personalized Recommendations
 - November 2012 Grade 11 Maths North West User Reviews and Ratings

- November 2012 Grade 11 Maths North West and Bestseller Lists
- 5. Accessing November 2012 Grade 11 Maths North West Free and Paid eBooks
 - November 2012 Grade 11 Maths North West Public Domain eBooks
 - November 2012 Grade 11 Maths North West eBook Subscription Services
 - November 2012 Grade 11 Maths North West Budget-Friendly Options
- 6. Navigating November 2012 Grade 11 Maths North West eBook Formats
 - ePub, PDF, MOBI, and More
 - November 2012 Grade 11 Maths North West Compatibility with Devices
 - November 2012 Grade 11 Maths North West Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of November 2012 Grade 11 Maths North West
 - Highlighting and Note-Taking November 2012 Grade 11 Maths North West
 - Interactive Elements November 2012 Grade 11 Maths North West
- 8. Staying Engaged with November 2012 Grade 11 Maths North West
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers November 2012 Grade 11 Maths North West
- 9. Balancing eBooks and Physical Books November 2012 Grade 11 Maths North West
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection November 2012 Grade 11 Maths North West
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine November 2012 Grade 11 Maths North West
 - Setting Reading Goals November 2012 Grade 11 Maths North West
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of November 2012 Grade 11 Maths North West
 - Fact-Checking eBook Content of November 2012 Grade 11 Maths North West
 - 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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