



**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)

**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:

$$\frac{a^2 b^3 c^4}{a^3 b^2 c} \cdot \frac{a^4 b^5 c^2}{a^2 b^3 c^4}$$

- 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:  $-1, 20, -40, -40, -20, \dots$
- 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 17<sup>th</sup> 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.

**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 11 North West Mathematics November 2014 Examination

**CO Houle**



## **Grade 11 North West Mathematics November 2014 Examination:**

Surviving and Thriving in the Secondary School Susan Capel, Julia Lawrence, Marilyn Leask, Sarah Younie, 2019-10-01

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**Improvement in Action** Anthony S. Bryk, 2021-02-09 *Improvement in Action* Anthony S Bryk s sequel to *Learning to Improve* illustrates how educators have effectively applied the six core principles of continuous improvement in practice The book highlights relevant examples of rigorous high quality improvement work in districts schools and professional development networks across the country The organizations featured in the book have addressed with remarkable results long standing inequitable educational outcomes in high school graduation rates college readiness and absenteeism The cases emphasize the measures the educators took and the thinking that motivated their actions Bryk describes how improvers working in different contexts and confronting different problems used select principles tools and methods to make improvement come to life Brief analytic reflections are embedded throughout the narratives and each chapter concludes with an analysis of a set of larger lessons illuminated by the organization s story Taken as a set these examples offer readers valuable insights about the actual dynamics of doing improvement work *Improvement in Action* paired with *Learning to Improve* provides readers with a comprehensive understanding of the practice method and theory of large scale continuous improvement in education

**Resources in Education**, 1995-04 *The Data-Driven School* Daniel M. Hyson, Joseph F. Kovalski, Benjamin Silberglitt, Jason A. Pedersen, 2020-07-10 This indispensable practitioner s guide helps to build the capacity of school psychologists administrators and teachers to use data in collaborative decision making It presents an applied step by step approach for creating and running effective data teams within a problem solving framework The authors describe innovative ways to improve academic and behavioral outcomes at the individual class grade school and district levels Applications of readily available technology tools are highlighted In a large size format for easy photocopying the book

includes learning activities and helpful reproducible forms The companion website provides downloadable copies of the reproducible forms as well as Excel spreadsheets PowerPoint slides and an online only chapter on characteristics of effective teams This book is in The Guilford Practical Intervention in the Schools Series edited by Sandra M Chafouleas Advancing Self-Directed Learning in Higher Education Mncube, Dumsani Wilfred, Maphalala, Mncedisi Christian, 2023-05-01 Self directed learning SDL is considered a core concept in problem based learning PBL and student centered learning More importantly the current face to face model of curriculum implementation faces many challenges that seem to question its dominance over other models The violent nature of the COVID 19 pandemic has again vindicated SDL practitioners and research enthusiasts to continue seeking solutions that will enhance skills to cope in a rapidly changing technological globalized world However the higher education sector is challenged when promoting SDL due to a slow pace of digital integration since the education system is not fully transformed This has necessitated an urgent need for global discourse on how universities globally are implementing SDL strategies to enhance the quality of curriculum delivery Advancing Self Directed Learning in Higher Education provides insight into various strategic approaches that could be adopted for the successful implementation of SDL in higher education It is written for professionals who want to improve their understanding of how to improve student teaching and learning and the quality of curriculum implementation in higher education In this realm this book provides ideas to its readers about the approaches pertaining to strategy and innovative measures practical implementations and tools in the field of curriculum and SDL Covering topics such as educational technology intentional education practice theory and student experience this premier reference source is an essential resource for teachers policymakers lecturers research scholars students of higher education administrators librarians academicians and researchers **Cincinnati Magazine** ,2005-04 Cincinnati Magazine taps into the DNA of the city exploring shopping dining living and culture and giving readers a ringside seat on the issues shaping the region **The City Record** New York (N.Y.),1914 New England Journal of Education Thomas Williams Bicknell, Albert Edward Winship, Anson Wood Belding, 1902 **The College Handbook** College Entrance Examination Board, 1985 Presents information on 4 year colleges and universities and 2 year community colleges and technical schools Comprehensive Dissertation Index ,1984 Vols for 1973 include the following subject areas Biological sciences Agriculture Chemistry Environmental sciences Health sciences Engineering Mathematics and statistics Earth sciences Physics Education Psychology Sociology Anthropology History Law political science Business economics Geography regional planning Language literature Fine arts Library information science Mass communications Music Philosophy and Religion *Monthly List of Russian Accessions* Library of Congress. Processing Department, 1957-10 **Monthly Index of Russian Accessions** ,1957 62nd Annual of Advertising, Editorial and Television Art and Design Art Directors Club Of, 1983 **Who's who in American Education** ,1992 **The Times Index** ,2004 Indexes the Times Sunday times and magazine Times literary supplement Times

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Army, 1997

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