

**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:

$$\frac{\sqrt[3]{x^2 y^{2x+1}}}{\sqrt[3]{x^{2x+1} y^2}} \quad (4)$$

- 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]**

N1 Maths Previous Question Papers And Memorandum

Lingjun Ying



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U.S. Government Research & Development Reports, 1966-11 **Mathematical Reviews**, 1995 **Frontiers in Geometry and Topology** Paul M. N. Feehan, Lenhard L. Ng, Peter S. Ozsváth, 2024-07-19 This volume contains the proceedings of the summer school and research conference Frontiers in Geometry and Topology celebrating the sixtieth birthday of Tomasz Mrowka which was held from August 1-12, 2022 at the Abdus Salam International Centre for Theoretical Physics ICTP. The summer school featured ten lecturers and the research conference featured twenty-three speakers covering a range of topics. A common thread reflecting Mrowka's own work was the rich interplay among the fields of analysis, geometry, and topology. Articles in this volume cover topics including knot theory, the topology of three- and four-dimensional manifolds, instanton monopoles, and Heegaard Floer homologies, Khovanov homology, and pseudoholomorphic curve theory. **Current Index to Journals in Education**, 1991 **PC Mag**, 1992-06-30 PCMag.com is a leading authority on technology, delivering lab-based independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. Resources in Education, 2001 Serials Holdings Linda Hall Library, 1976 **Government Reports Announcements**, 1971-05 Government Reports Announcements & Index, 1993-08 **alternative press index** ALTERNATIVE PRESS INDEX, 2002 Webster's Concise Reference Library Merriam-Webster, Inc. Staff, 1996-07 Serials Holdings in the Linda Hall Library, April 1, 1968 Linda Hall Library, 1968* *Proceedings, 1986 IEEE International Conference on Robotics and Automation, April 7-10, 1986, San Francisco, California*, 1986 Reviews in Number Theory, 1984-96, 1997 These six volumes include approximately 20,000 reviews of items in number theory that appeared in Mathematical Reviews between 1984 and 1996. This is the third such set of volumes in number theory. The first was edited by W. J. LeVeque and included reviews from 1940-1972; the second was edited by R. K. Guy and appeared in 1984. **Current Index to Journals in Education, Semi-Annual Cumulation, July-December, 1976**, 1976-10 *Energy Research Abstracts*, 1982 China World Bank, 1993 The Republic of Korea's industrial policy has directed that nation's economy through nearly three decades of spectacular growth. But the authors of this paper maintain that this policy is showing signs of being outmoded. The time has come, the authors argue, for the Korean government to stop managing the economy's structural development and to redefine the responsibilities of business and government. Under this proposed compact, the allocation of resources would shift from the government to the private industrial and financial sectors. The transformation of the government bureaucracy from an ad hoc policy role to one of a transparent and predictable regulator is a key to the success of this undertaking. These new directions would present the government with enormous challenges. Greater competitive discipline and regulatory oversight would be required. While dealing with the complexities of the transition, the government would have to maintain macroeconomic stability and the momentum of savings and investment. For comparison, the study examines the industrial economies of France, Germany, Japan,

and the United States which underwent similar shifts **Energy Research Abstracts** ,1982 Conference Record, 1978
National Telecommunications Conference, Birmingham, Alabama, Dec. 3-6, 1978 ,1978 Reviews in Number Theory, as
Printed in Mathematical Reviews, 1940 Through 1972, Volumes 1-44 Inclusive William Judson LeVeque,1974

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