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 $x^{\frac{2}{3}} = 4$ (3)

1.1.6 $2^{2x} - 4^{x-2} = 12$ (4)

1.2 Simultaneously solve x and y:

$2x - y = 1$ and $3x^2 - 4xy + y^2 = 0$ (6)

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)

[31]

QUESTION 2

2.1 $x = -3 \pm 2\sqrt{7}$ are the roots of a quadratic function, $f(x)$, of which the y-intercept is 4. Determine $f(x)$. (5)

2.2 Given: $g(x) = \frac{x^2 - 2x + 1}{x - x}$

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: $\frac{2x}{x+1} < 0$. Graphically represent your answer. (5)

2.4 Simplify and leave an answer with positive exponents only:

$$\sqrt{\frac{y^4 \cdot y^{x+1}}{2^{2x+2}}}$$ (4)

2.5 Without solving the equation, determine the nature of the roots of: $4x^2 - 2x + 1$ (5)

[34]

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_3. (2)

3.2 Given the quadratic series: $-128; -94; -46; -26; \dots$

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 $T_n = -4x^2 + 56x - 188$, 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)

[24]

QUESTION 4

Given: $f(x) = \frac{-3}{x+4} - 1$ and $g(x) = -a^x$. The point $(1; -3)$ lies on g.

4.1 Determine the value of a. (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)

[9]

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Jaume,2016-10-25 As the need for sustainable development practices around the world continues to grow it has become imperative for citizens to become actively engaged in the global transition By evaluating data collected from various global programs researchers are able to identify strategies and challenges in implementing civic engagement initiatives Analyzing the Role of Citizen Science in Modern Research focuses on analyzing data on current initiatives and best practices in citizen engagement and education programs across various disciplines Highlighting emergent research and application techniques within citizen science initiatives this publication appeals to academicians researchers policy makers government officials technology developers advanced level students and program developers interested in launching or improving citizen science programs across the globe **Minimum Deterrence: Examining the Evidence** Keith B. Payne,James Schlesinger,2016-04-14 The National Institute for Public Policy s new book Minimum Deterrence Examining the Evidence is the first of its kind Dr Keith Payne former Secretary of Defense James Schlesinger and an unparalleled bipartisan group of senior civilian and military experts critically examine eight basic assumptions of Minimum Deterrence against available evidence In general Minimum Deterrence does not fare well under the careful scrutiny Proponents of a Minimum Deterrent US nuclear force posture believe that anywhere from a handful to a few hundred nuclear weapons are adequate to deter reliably and predictably any enemy from attacking the United States now and in the future Because nuclear weapons are so destructive their thinking goes no foreign leader would dare challenge US capabilities The benefits advocates claim of reducing US nuclear weapons to the minimum level needed are better relations with Russia and China reinforcement of the arms control and Nonproliferation Treaty billions of defense dollars in savings and greater international stability on the way to nuclear zero As political pressure builds to pursue this vision of minimum US deterrence Minimum Deterrence Examining the Evidence stands as the seminal study to address the many claims of great benefit using available evidence This book was published as a special issue of Comparative Strategy **Government Reports Announcements** ,1974 **Government Reports Announcements & Index** ,1989 Paperbound Books in Print ,1992 **Books in Print Supplement** ,1984 **Who's who Among Students in American Universities and Colleges** Henry Pettus Randall,1977 **Shell Aviation News** ,1964 *Forthcoming Books* Rose Arny,1992 **Bogmarkedet** ,1995-04

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