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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 $2^{2x} - 4^{x-1} = 12$ (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 $-3(x + 1)(x - 2) \leq 0$ (3)

[31]

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: $g(x) = \frac{x^2 - 12x + 4}{2 - x}$

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

2.4 Simplify and leave an answer with positive exponents only:

$$\sqrt[4]{\frac{p^3 \cdot p^{n+1}}{p^{2n+2}}}$$ (4)

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

[24]

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: $-128; -84; -48; -20; \ldots$

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 11^{th} 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)

[34]

QUESTION 4

Given: $f(x) = \frac{-1}{x+1} - 1$ 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 simmetry of f that has a positive gradient. (2)

[9]

Mathematics Paper November 2014 Question Paper And Memorandum

Rory McDowall Clark

Mathematics Paper November 2014 Question Paper And Memorandum:

An Age of Accountability John L. Rury,2023-10-13 An Age of Accountability highlights the role of test based accountability as a policy framework in American education from 1970 to 2020 For more than half a century the quest to hold schools and educators accountable for academic achievement has relied almost exclusively on standardized assessment The theory of change embedded in almost all test based accountability programs held that assessment with stipulated consequences could lead to major improvements in schools This was accomplished politically by proclaiming lofty goals of attaining universal proficiency and closing achievement gaps which repeatedly failed to materialize But even after very clear disappointments no other policy framework has emerged to challenge its hegemony The American public today has little confidence in institutions to improve the quality of goods and services they provide especially in the public sector As a consequence many Americans continue to believe that accountability remains a vital necessity even if educators and policy scholars disagree

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