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 $(2x - 3)(x + 2) = 0$ (3)

1.1.3 $x = \sqrt{x - 1} + 3$ (4)

1.1.4 $\cos x + (4x) = (3)$ (4)

1.1.5 $x^2 = x$ (5)

1.1.6 $2^x - 4^{x+1} = 12$ (4)

1.2 Simultaneously solve x and y:
$2x - y = 3$ and $3x^2 - 4xy + y^2 = 4$ (5)

1.3 Solve the following inequalities:

1.3.1 $x^2 + 5x - 6 > 0$ (3)

1.3.2 $-5(x + 1)(x - 2) > 0$ (3)
[25]

QUESTION 2

2.1 $x = -1$ and $x = 2$ are the roots of a quadratic function $f(x)$, of which the y-intercept is 4. Determine $f(x)$. (5)

2.2 Given $g(x) = \dfrac{x+1}{x+2}$

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 for x: $\dfrac{1}{x-1} < 3$. Graphically represent your answer. (5)

2.4 Simplify and leave an answer with positive exponents only:
$$\frac{\sqrt{x^2 \cdot y^{a+1}}}{\sqrt[4]{x^a \cdot y^{a+1}}}$$ (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 $4x - 2; x + 8; 2x + 1$

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 $-1(b); -4b; -4b; -2(b), \ldots$

3.2.1 Determine the next two terms of the series. (2)

3.2.2 Determine T_n, the general term of the pattern. (3)

3.2.3 Given that $T_n = -4x^2 + 5x - 30$, determine the largest possible numerical value for T_n. (4)

3.3 Given $T_n = 13 - 5n$

3.3.1 Which term of the series would be equal to -170? (3)

3.3.2 Determine the numerical value for the 15th 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 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 $f(x) = \dfrac{a}{x+b} - 1$ and $g(x) = -x^2$. The point $(1; -5)$ lies on g.

4.1 Determine the value of a. (2)

4.2 Draw a neat sketch of the two graphs on the same axes. Show all intercepts with the axes and asymptotes clearly. (5)

4.3 Determine the axis of symmetry of f that has a positive gradient. (2)
[9]

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1. Understanding the eBook Nov 2013 Gr 11 Math P1 Dbe
    - The Rise of Digital Reading Nov 2013 Gr 11 Math P1 Dbe
    - Advantages of eBooks Over Traditional Books
2. Identifying Nov 2013 Gr 11 Math P1 Dbe
    - 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 Nov 2013 Gr 11 Math P1 Dbe
    - User-Friendly Interface
4. Exploring eBook Recommendations from Nov 2013 Gr 11 Math P1 Dbe
    - Personalized Recommendations
    - Nov 2013 Gr 11 Math P1 Dbe User Reviews and Ratings
    - Nov 2013 Gr 11 Math P1 Dbe and Bestseller Lists
5. Accessing Nov 2013 Gr 11 Math P1 Dbe Free and Paid eBooks
    - Nov 2013 Gr 11 Math P1 Dbe Public Domain eBooks
    - Nov 2013 Gr 11 Math P1 Dbe eBook Subscription Services
    - Nov 2013 Gr 11 Math P1 Dbe Budget-Friendly Options
6. Navigating Nov 2013 Gr 11 Math P1 Dbe eBook Formats

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