



**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 $x = \sqrt{17} - 1$ (2)
 - 1.1.4 $\log_2 120 = 2$ (2)
 - 1.1.5 $x^2 = 9$ (2)
 - 1.1.6 $2^x - 4^x = 32$ (2)

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

- 1.3 Solve the following inequalities:
- 1.3.1 $x^2 + 3x - 4 < 0$ (2)
 - 1.3.2 $-8x + 5 > 0$ (2)

QUESTION 2

- 2.1 $y = -0.4(x-2)^2$ is the rule of a quadratic function, $f(x)$, of which the y-intercept is $\frac{1}{2}$.
 Determine $f(x)$. (5)
- 2.2 Given $g(x) = \frac{3x^2 + 2x - 1}{x}$
- 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 $x^2 + \frac{1}{x} = 1.5$. Graphically represent your answer. (5)

- 2.4 Simplify and leave an answer with positive exponents only:

$$\frac{2x^2 - 3x + 1}{x^2 - 4} \div \frac{x^2 - 2x + 1}{x^2 - 3x + 2}$$
 (5)
- 2.5 Without solving the equation, determine the nature of the roots of $ax^2 + 2x + 1 = 0$. (2)

QUESTION 3

- 3.1 The first three terms of the linear series, A , given are $1, 2, 3, 4, 5, 6, \dots$
- 3.1.1 Determine the value of n . (2)
 - 3.1.2 Determine the numerical value of S_n . (2)
- 3.2 Given the quadratic series $-1, 2, -4, 8, -16, \dots$
- 3.2.1 Determine the next two terms of the series. (2)
 - 3.2.2 Determine T_n , the general term of the series. (2)
 - 3.2.3 Given that $T_n = -64$, determine the largest possible numerical value for T_n . (2)
- 3.3 Given $T_n = 22 - 3n$
- 3.3.1 Which term in the series would be equal to -17 ? (2)
 - 3.3.2 Determine the numerical value for the 17th 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, he will get the general formula.
 John says he can define 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? Show your answer. (2)

QUESTION 4

- Given $f(x) = \frac{1}{x} - 1$ and $g(x) = x^2$. The point $A = (1, 2)$ 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 asymptotes clearly. (5)
 - 4.3 Determine the set of intervals of $f(x)$ that has a positive gradient. (2)

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