



**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  $x = \sqrt{25-16} + 2$  (2)
- 1.1.4  $\log x + 2\log x = 10$  (2)
- 1.1.5  $x^2 = 9$  (2)
- 1.1.6  $2^{3x} + 4^{3x} = 32$  (2)
- 1.2 Simultaneously solve  $x$  and  $y$ :  
 $3x + y = 4$  and  $3x^2 + 4xy + y^2 = 6$  (5)
- 1.3 Solve the following inequalities:
- 1.3.1  $x^2 + 3x - 4 < 0$  (2)
- 1.3.2  $-6x + 5 > 3x - 12 < 0$  (2)

**QUESTION 2**

- 2.1  $x = -0.4 \pm 0.2\sqrt{2}$  are the roots of a quadratic function,  $f(x)$ , of which the y-intercept is 4. Determine  $f(x)$ . (5)
- 2.2 Given  $g(x) = \frac{2x^2 + 1}{x + 1}$
- 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  $x + 2\sqrt{\frac{x}{x+1}} = 1.5$ . Graphically represent your answer. (5)

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

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

**QUESTION 3**

- 3.1 The first three terms of a linear series is given as:  $3x - 2, x + 5, 3x + 2$
- 3.1.1 Determine the value of  $x$ . (2)
- 3.1.2 Determine the numerical value of  $T_5$ . (2)
- 3.2 Given the quadratic series:  $-1, 20, -40, -60, -20, \dots$
- 3.2.1 Determine the next two terms of the series. (2)
- 3.2.2 Determine  $T_n$ , the general term of the pattern. (2)
- 3.2.3 Given that  $T_n = -4n^2 + 10n - 20$ , determine the largest possible numerical value for  $T_n$ . (2)
- 3.3 Given  $T_n = 12 - 3n$ :
- 3.3.1 Which term in the series would be equal to  $-178$ ? (2)
- 3.3.2 Determine the numerical value for the 17<sup>th</sup> 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 increased by one he will get the general formula.
- John says he can derive the general formula for the number of dots 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. (5)

**QUESTION 4**

- Given  $f(x) = \frac{1}{x^2} + 1$  and  $g(x) = -x^2$ . The point  $(3, -5)$  lies on  $g$ .
- 4.1 Determine the value of  $x$ . (2)
- 4.2 Draw a neat sketch of the two graphs on the same sets. Show all intercepts with the axes and asymptotes clearly. (5)
- 4.3 Determine the sets of intervals of  $f(x)$  that has a positive gradient. (2)

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**Annelies Wilder-Smith**



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