

**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  $x(x + 18) > -25$  (4)
- 1.1.5  $x^{\frac{1}{2}} = 4$  (3)
- 1.1.6  $2^{2x} - 2^{x+1} = 12$  (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  $-3(x + 1)(x - 2) < 0$  (3)
- [P1]**

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

$$\frac{\sqrt[3]{x^2 y^{2x+1}}}{\sqrt[3]{x^{2x+1} y^2}} \quad (4)$$

- 2.5 Without solving the equation, determine the nature of the roots of:  $4x^2 = 2x + 1$ . (5)
- [P4]**

**QUESTION 3**

- 3.1 The first three terms of a linear series, is given as:  $3x - 2$ ,  $x + 1$ ,  $2x + 5$
- 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:  $-120, -94, -68, -20, \dots$
- 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  $T_n = -4n^2 + 56n - 180$ , 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  $-17$ ? (3)
- 3.3.2 Determine the numerical value for the 11<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, 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)
- [P4]**

**QUESTION 4**

Given:  $f(x) = \frac{x^2}{x+1} - 1$  and  $g(x) = -x^2$ . The point  $(1, -3)$  lies on  $g$ .

- 4.1 Determine the value of  $x$ . (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)
- [P]**

# Nmaths Questions Papers And Memos

**Thomas Griffiths**



## **Nmaths Questions Papers And Memos:**

## **Nmaths Questions Papers And Memos** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Nmaths Questions Papers And Memos**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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balance and ChemCycling · ChemCycling ... 8. Mass Balance Mass-balance analysis may also be referred to as. "Material Flow Analysis" or "Substance Flow Analysis." Table 8.1 provides several examples of possible inputs,. Mass Balance Approach in the Chemical Industry The mass balance Approach (MBA) is a process for determining the use of chemically recycled or bio-based feedstock in a final product when both recycled and ... BRC 3.9.2 Trace Exercise Sample Procedure to conduct a mass balance check · 1. Select a raw material lot number used in a finished product made within the last 6 months. · 2. Review storage ... UNDERSTANDING VULNERABILITY ASSESSMENT Table 6 provides examples of PRNs for different raw materials. Table 6 Priority ... Mass balance exercises at critical points in the supply chain – the mass ... ISSUE 8 FOOD SAFETY - Frequently Asked Questions - a worked example from the raw material supplier, which ... to conduct a mass balance test every 6 months for each claim or a single mass balance test every.

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