



**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  $2^{10} + 4^{10} = 32$  (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  $x + 2\sqrt{x} + 1 = 0$ . Graphically represent your answer. (5)

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

$$\frac{x^2 - 4}{x^2 + 2x - 3} \div \frac{x^2 + 3x - 4}{x^2 + 5x + 6}$$

(2)

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

**P4**

**QUESTION 3**

- 3.1 The first three terms of a linear series is given as:  $1x - 2$ ,  $x + 5$ ,  $3x + 2$

- 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:  $-1(2) - 4(4) - 4(9) - 25 \dots$

- 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  $T_n = -4n^2 + 10n - 10$ , 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)

**P4**

**QUESTION 4**

- Given  $f(x) = \frac{2x^2 + 1}{x + 1}$  and  $g(x) = -x^2$ . The point  $(3, -5)$  lies on  $g$ .

- 4.1 Determine the value of  $a$ . (2)
- 4.2 Draw a neat sketch of the two graphs on the same 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)

**P4**

# Grade 11 Mathematic Paper 1 Memo Nsc

**Yi-Tong Ma**



**Grade 11 Mathematic Paper 1 Memo Nsc:**

## Decoding **Grade 11 Mathematic Paper 1 Memo Nsc**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Grade 11 Mathematic Paper 1 Memo Nsc**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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