



**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 $x = -0.5 \pm 0.5\sqrt{2}$ 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:

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

(2)

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

P4

QUESTION 3

- 3.1 The first three terms of a linear series is given as: $3x - 2$, $x + 5$, $2x + 3$
- 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: $-4, 20, -40, 40, -20, \dots$
- 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 $T_n = -4n^2 + 16n - 20$, 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 -170 ? (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 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 Mathematics Paper 1 November 2013

Northwest

**Bernadette Geduld, Byron J.
Bunt, Divan Jagals**



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The Northwestern Miller ,1888 Diverse educational contexts and research on metacognition and motivation to enhance self-directed learning Bernadette Geduld,Byron J. Bunt,Divan Jagals,2025-02-17 This scholarly book explores the latest education research on metacognition and self directed learning providing practical insights for educators and students As the thirteenth volume in the NWU Self Directed Learning Series it focuses on developing metacognitive skills to enhance self regulation motivation and independent thinking key competencies for success in the 21st century Metacognition plays a vital role in learning helping students plan evaluate and self assess their progress Research shows that students with strong metacognitive strategies achieve better learning outcomes apply knowledge effectively and persist through academic challenges This book offers evidence based teaching strategies to support the development of self regulated learning and motivation in diverse educational settings It examines teaching behaviour and instructional methods that foster metacognitive growth in both basic and higher education With a particular focus on the South African education landscape it extends research in cognitive developmental and applied psychology Researchers and educators will find practical approaches for integrating metacognition into various disciplines making this book a valuable resource for both undergraduate and graduate education programmes **Federal Register** ,2012-11

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web specifically an acid base titration can be used to figure out the concentration of an acid or base whether an unknown acid or base is strong or weak pka of an unknown acid or pkb of the unknown base key terms titration a process where a solution of known strength is added to a certain volume of a treated sample containing an

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web conclusion this lab evaluated an acid base reaction with the volumetric analysis of a standard solution being naoh reaction with a 2nd substance $\text{H}_2\text{C}_2\text{O}_4 \text{ aq } 2\text{NaOH aq Na}_2\text{C}_2\text{O}_4 \cdot 4\text{H}_2\text{O}$ to differentiate an acid from a base in a solution a ph scale is used the ph scale ranges from 0 to 14 a ph of 7 is neutral in an acid base reaction

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