

**GRADE 12 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1**

QUESTION 1

1.1 Solve for x

1.1.1 $x^2 - 9x + 20 = 0$ (3)

1.1.2 $x(x + 3) - 1 = 0$ (correct to 2 decimal points) (3)

1.1.3 $x^2 + 7x < 0$ (3)

1.1.4 $2x^{\frac{2}{3}} = 64$ (4)

1.2 Solve simultaneously for x and y if:

$2x - y = 8$, and
 $x^2 - xy + y^2 = 19$ (7)

1.3 Solve the expression below without the use of a calculator:

$$\frac{\sqrt[3]{4} + \sqrt[3]{2}}{\sqrt[3]{16}}$$
 (4)

QUESTION 2

2.1 The terms p , $(2p + 2)$, $(5p + 3)$ form an arithmetic sequence.

Determine:

2.1.1 The value of p . (4)

2.1.2 The rule in the form of $a_n = a + (n - 1)d$. (2)

2.1.3 The 15th term of the sequence. (4)

2.2 x , y , 81 is a geometric sequence.
And $y = 2x - 5$
All terms in the sequences are integers.
Calculate the values of x and y . (10)

[24]

QUESTION 3

Given the sequence 2, 8, 10, 14,

3.1 What type of sequence is this? Justify your answer by calculation. (2)

3.2 Calculate T_{10} . (3)

3.3 Which term has a value of 322? (3)

3.4 Determine by calculation if 1204 is a term in the sequence? (4)

[12]

QUESTION 4

The sketch below shows the graph of $f(x) = \frac{-1}{x+5} + 4$. The asymptotes of f intersects at $B(-1; y)$. The Point $D(5; 4)$ is a point on the graph.



4.1 Determine the value of p . (1)

4.2 Prove that $q = 5$. (2)

4.3 Calculate the x -intercept of f . (2)

4.4 Determine the equation of the vertical asymptote of h if $h(x) = f(x + 4)$. (2)

4.5 One of the symmetry axes of f is an increasing function. Determine the equation of the symmetry axis. (3)

4.6 Give the values x for $f(x) \geq x + 6$. (2)

4.7 Determine the equation of g , the reflection of f in the x -axis and move two units to the right. (3)

[15]

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Table of Contents Maths Paper 1 Grade 12 November 2010 Memo

1. Understanding the eBook Maths Paper 1 Grade 12 November 2010 Memo
 - The Rise of Digital Reading Maths Paper 1 Grade 12 November 2010 Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper 1 Grade 12 November 2010 Memo
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths Paper 1 Grade 12 November 2010 Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper 1 Grade 12 November 2010 Memo
 - Personalized Recommendations
 - Maths Paper 1 Grade 12 November 2010 Memo User Reviews and Ratings
 - Maths Paper 1 Grade 12 November 2010 Memo and Bestseller Lists
5. Accessing Maths Paper 1 Grade 12 November 2010 Memo Free and Paid eBooks
 - Maths Paper 1 Grade 12 November 2010 Memo Public Domain eBooks
 - Maths Paper 1 Grade 12 November 2010 Memo eBook Subscription Services
 - Maths Paper 1 Grade 12 November 2010 Memo Budget-Friendly Options
6. Navigating Maths Paper 1 Grade 12 November 2010 Memo eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Paper 1 Grade 12 November 2010 Memo Compatibility with Devices
 - Maths Paper 1 Grade 12 November 2010 Memo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper 1 Grade 12 November 2010 Memo
 - Highlighting and Note-Taking Maths Paper 1 Grade 12 November 2010 Memo
 - Interactive Elements Maths Paper 1 Grade 12 November 2010 Memo
8. Staying Engaged with Maths Paper 1 Grade 12 November 2010 Memo

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Maths Paper 1 Grade 12 November 2010 Memo
- 9. Balancing eBooks and Physical Books Maths Paper 1 Grade 12 November 2010 Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper 1 Grade 12 November 2010 Memo
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper 1 Grade 12 November 2010 Memo
 - Setting Reading Goals Maths Paper 1 Grade 12 November 2010 Memo
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper 1 Grade 12 November 2010 Memo
 - Fact-Checking eBook Content of Maths Paper 1 Grade 12 November 2010 Memo
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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