

**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)

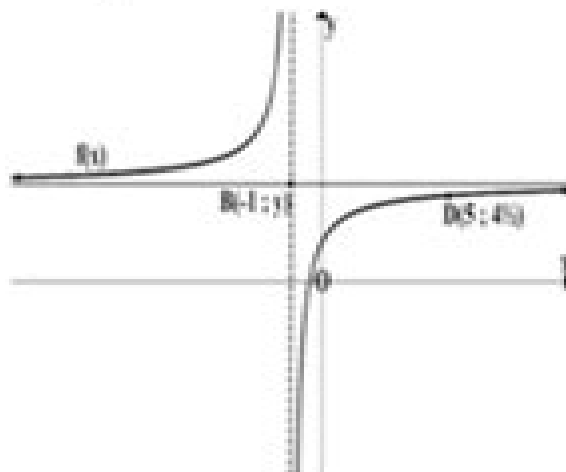
3.2 Calculate  $T_{10}$ . (3)

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 Grade 1mathematics Paper November 2memo**

1. Understanding the eBook Grade 1mathematics Paper November 2memo
  - The Rise of Digital Reading Grade 1mathematics Paper November 2memo
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 1mathematics Paper November 2memo
  - 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 Grade 1mathematics Paper November 2memo
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 1mathematics Paper November 2memo
  - Personalized Recommendations
  - Grade 1mathematics Paper November 2memo User Reviews and Ratings

- Grade 1mathematics Paper November 2memo and Bestseller Lists
- 5. Accessing Grade 1mathematics Paper November 2memo Free and Paid eBooks
  - Grade 1mathematics Paper November 2memo Public Domain eBooks
  - Grade 1mathematics Paper November 2memo eBook Subscription Services
  - Grade 1mathematics Paper November 2memo Budget-Friendly Options
- 6. Navigating Grade 1mathematics Paper November 2memo eBook Formats
  - ePub, PDF, MOBI, and More
  - Grade 1mathematics Paper November 2memo Compatibility with Devices
  - Grade 1mathematics Paper November 2memo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Grade 1mathematics Paper November 2memo
  - Highlighting and Note-Taking Grade 1mathematics Paper November 2memo
  - Interactive Elements Grade 1mathematics Paper November 2memo
- 8. Staying Engaged with Grade 1mathematics Paper November 2memo
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade 1mathematics Paper November 2memo
- 9. Balancing eBooks and Physical Books Grade 1mathematics Paper November 2memo
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade 1mathematics Paper November 2memo
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 1mathematics Paper November 2memo
  - Setting Reading Goals Grade 1mathematics Paper November 2memo
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 1mathematics Paper November 2memo
  - Fact-Checking eBook Content of Grade 1mathematics Paper November 2memo
  - 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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