

**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)

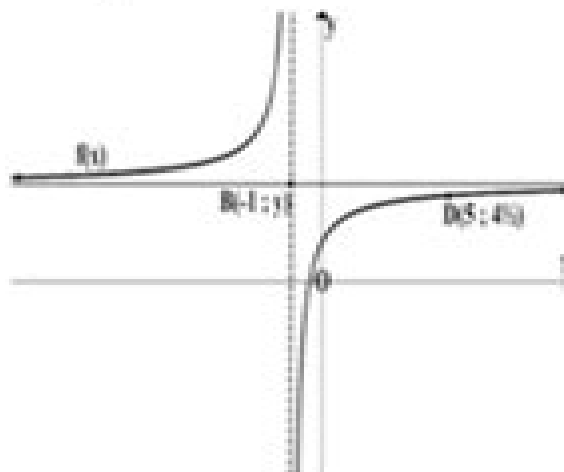
3.3 Which term has a value of 322? (3)

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]

# Mathematics P1 November 2012 Grade 12 Memo

**RD Boyd**



**Mathematics P1 November 2012 Grade 12 Memo:**

The book delves into Mathematics P1 November 2012 Grade 12 Memo. Mathematics P1 November 2012 Grade 12 Memo is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Mathematics P1 November 2012 Grade 12 Memo, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Mathematics P1 November 2012 Grade 12 Memo
    - Chapter 2: Essential Elements of Mathematics P1 November 2012 Grade 12 Memo
    - Chapter 3: Mathematics P1 November 2012 Grade 12 Memo in Everyday Life
    - Chapter 4: Mathematics P1 November 2012 Grade 12 Memo in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Mathematics P1 November 2012 Grade 12 Memo. The first chapter will explore what Mathematics P1 November 2012 Grade 12 Memo is, why Mathematics P1 November 2012 Grade 12 Memo is vital, and how to effectively learn about Mathematics P1 November 2012 Grade 12 Memo.
  3. In chapter 2, the author will delve into the foundational concepts of Mathematics P1 November 2012 Grade 12 Memo. This chapter will elucidate the essential principles that need to be understood to grasp Mathematics P1 November 2012 Grade 12 Memo in its entirety.
  4. In chapter 3, the author will examine the practical applications of Mathematics P1 November 2012 Grade 12 Memo in daily life. This chapter will showcase real-world examples of how Mathematics P1 November 2012 Grade 12 Memo can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Mathematics P1 November 2012 Grade 12 Memo in specific contexts. This chapter will explore how Mathematics P1 November 2012 Grade 12 Memo is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Mathematics P1 November 2012 Grade 12 Memo. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Mathematics P1 November 2012 Grade 12 Memo.

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