

**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)

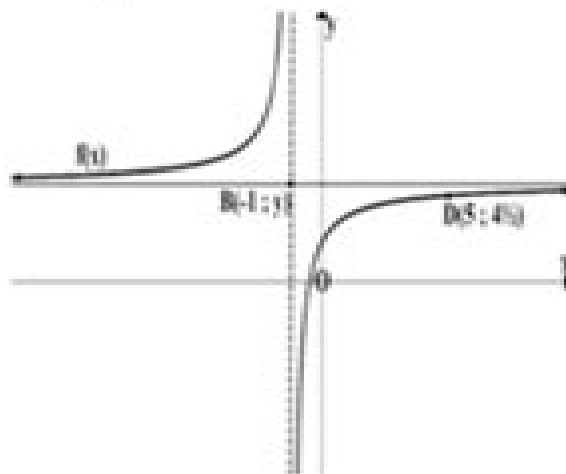
3.2 Calculate  $T_{10}$ . (3)

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  $f(x) = \frac{-1}{x+5} + q$ . 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]

# Memorandum Maths Paper November 2010

**Amit Kumar Tyagi**



## **Memorandum Maths Paper November 2010:**

**Data Science and Data Analytics** Amit Kumar Tyagi, 2021-09-22 Data science is a multi disciplinary field that uses scientific methods processes algorithms and systems to extract knowledge and insights from structured labeled and unstructured unlabeled data It is the future of Artificial Intelligence AI and a necessity of the future to make things easier and more productive In simple terms data science is the discovery of data or uncovering hidden patterns such as complex behaviors trends and inferences from data Moreover Big Data analytics data analytics are the analysis mechanisms used in data science by data scientists Several tools such as Hadoop R etc are used to analyze this large amount of data to predict valuable information and for decision making Note that structured data can be easily analyzed by efficient available business intelligence tools while most of the data 80% of data by 2020 is in an unstructured form that requires advanced analytics tools But while analyzing this data we face several concerns such as complexity scalability privacy leaks and trust issues Data science helps us to extract meaningful information or insights from unstructured or complex or large amounts of data available or stored virtually in the cloud Data Science and Data Analytics Opportunities and Challenges covers all possible areas applications with arising serious concerns and challenges in this emerging field in detail with a comparative analysis taxonomy FEATURES Gives the concept of data science tools and algorithms that exist for many useful applications Provides many challenges and opportunities in data science and data analytics that help researchers to identify research gaps or problems Identifies many areas and uses of data science in the smart era Applies data science to agriculture healthcare graph mining education security etc Academicians data scientists and stockbrokers from industry business will find this book useful for designing optimal strategies to enhance their firm s productivity **Exploring the Contexts for Early Learning** Rory McDowall Clark, 2016-09-01 The concept of readiness for school is attractive to policy makers but many academics researchers and practitioners argue that an early start to formal learning may be misguided This book introduces readers to an increasing body of evidence which demonstrates that young children need opportunities to learn and develop in environments that support their emotional and cognitive needs offering opportunities to develop autonomy competence and self regulation skills With advice on implementing research findings in practice this book provides clear guidance on how to foster and develop these attributes scaffold steps into new areas of learning and support children in facing new challenges Chapters cover Policy and discourses Taking account of development Approaches to Early Years Learning The Diversity of Children s Early Experiences Transitions and starting school Where to in the Future Exploring the Contexts for Early Learning will be essential reading for students practitioners policy makers and all those interested in the school readiness agenda *Energy Research Abstracts* ,1990

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