

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)

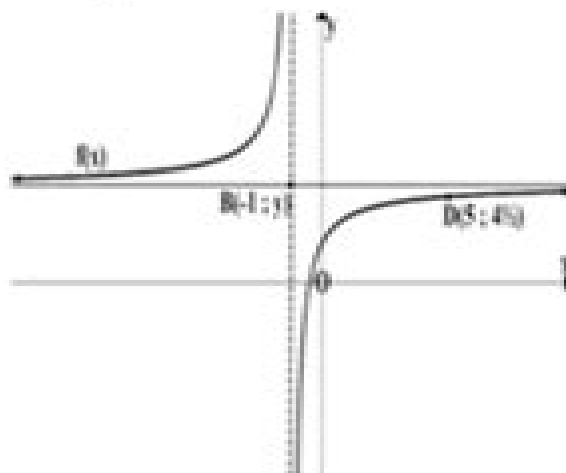
3.3 Which term has a value of 322? (3)

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 Paper November 2011

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Numerical Cognition Roi Cohen Kadosh, Ann Dowker, 2015-07-30 How do we understand numbers Do animals and babies have numerical abilities Why do some people fail to grasp numbers and how we can improve numerical understanding Numbers are vital to so many areas of life in science economics sports education and many aspects of everyday life from infancy onwards Numerical cognition is a vibrant area that brings together scientists from different and diverse research areas e g neuropsychology cognitive psychology developmental psychology comparative psychology anthropology education and neuroscience using different methodological approaches e g behavioral studies of healthy children and adults and of patients electrophysiology and brain imaging studies in humans single cell neurophysiology in non human primates habituation studies in human infants and animals and computer modeling While the study of numerical cognition had been relatively neglected for a long time during the last decade there has been an explosion of studies and new findings This has resulted in an enormous advance in our understanding of the neural and cognitive mechanisms of numerical cognition In addition there has recently been increasing interest and concern about pupils mathematical achievement in many countries resulting in attempts to use research to guide mathematics instruction in schools and to develop interventions for children with mathematical difficulties This handbook brings together the different research areas that make up the field of numerical cognition in one comprehensive and authoritative volume The chapters provide a broad and extensive review that is written in an accessible form for scholars and students as well as educationalists clinicians and policy makers The book covers the most important aspects of research on numerical cognition from the areas of development psychology cognitive psychology neuropsychology and rehabilitation learning disabilities human and animal cognition and neuroscience computational modeling education and individual differences and philosophy Containing more than 60 chapters by leading specialists in their fields the Oxford Handbook of Numerical Cognition is a state of the art review of the current literature [The Epigram Books Collection of Best New Singaporean Short Stories](#) Jason Erik Lundberg, 2013 In recent years Singaporean literature has begun experiencing a sea change with the short story form enjoying a renaissance As a result an explosion of short fiction with a Singaporean flavour has been produced to incredible effect both by emerging and established writers For the prose enthusiast it is a very exciting time The Epigram Books Collection of Best New Singaporean Short Stories Volume One curates the finest short fiction from Singaporean writers published in 2011 and 2012 This ground breaking and unique anthology showcases stories that examine various facets of the human condition and the truths that we tell ourselves in order to exist in the everyday The styles are as varied as the authors and no two pieces are alike Here are twenty unique and breathtaking literary insights into the Singaporean psyche which examine what it means to live in this particular part of the world in this particular time [Intelligent Computer Mathematics](#) Stephen M. Watt, Alan Sexton, James H. Davenport, Petr Sojka, Josef Urban, 2014-06-30 This book constitutes the joint refereed proceedings of Calculemus 2014 Digital Mathematics Libraries DML 2014 Mathematical Knowledge Management MKM 2014 and Systems and Projects S P 2014 held in Coimbra

Portugal during July 7-11 2014 as four tracks of CICM 2014 the Conferences on Intelligent Computer Mathematics The 26 full papers and 9 Systems and Projects descriptions presented together with 5 invited talks were carefully reviewed and selected from a total of 55 submissions The Calculemus track of CICM examines the integration of symbolic computation and mechanized reasoning The Digital Mathematics Libraries track evolved from the DML workshop series features math aware technologies standards algorithms and processes towards the fulfillment of the dream of a global DML The Mathematical Knowledge Management track of CICM is concerned with all aspects of managing mathematical knowledge in the informal semi formal and formal settings The Systems and Projects track presents short descriptions of existing systems or on going projects in the areas of all the other tracks of the conference

Women in MathArt Shanna Dobson, 2024-12-06 This volume contains the proceedings from the first Women in MathArt Research Collaboration Conference for Women showcasing women mathematicians researching and curating creative pedagogies at the intersection of mathematics and the arts This volume contains contributions to mathart projects from student mentor teams and researchers in all stages of their careers The volume also contains survey articles on new mathart intersections such as neuroaesthetics generative design generative adversarial networks and Langlands Program New results of particular interest are diamond Langlands generative design in the geometrization of the local Langlands Program investigations of the grammatology and visual epistemology of perfectoid diamonds in mathematics as grammatological metaphor infinity category constructions of pro Generative Adversarial Networks infinity stackification of mathematical exigency condensing temporal logic with entropic categorizations perfectoid diamond holography neuroaesthetics in immunology Also included is the result to foster a more inclusive work community of mathematicians using the arts as a tool to bring more vulnerability and integrity to each individual's research life Readers are herein provided a rigorous overview of current mathart developments and future mathart projects

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