# Subject - Math AA(Higher Level) Topic - Calculus Year - May 2021 - Nov 2022 Paper -3 Questions

#### Question 1

[Maximum mark: 25]

This question asks you to investigate some properties of the sequence of functions of the form  $f_n(x) = \cos(n \arccos x)$ ,  $-1 \le x \le 1$  and  $n \in \mathbb{Z}^*$ .

Important: When skietching graphs in this question, you are not required to find the coordinates of any axes intercepts or the coordinates of any stationary points unless requested.

(a) On the same set of axes, sketch the graphs of  $y = f_1(x)$  and  $y = f_1(x)$  for  $-1 \le x \le 1$ . [2]

[-4]

[23]

640

- (b) For odd values of w > 2, use your graphic display calculator to systematically vary the value of w. Hence suggest an expression for odd values of w describing, in terms of w, the number of
  - (i) local maximum points;
  - (iii) local minimum points.
- (c) On a new set of axes, sketch the graphs of y = f<sub>x</sub>(x) and y = f<sub>x</sub>(x) for -1 ≤ x ≤ 1.
- (d) For even values of n > 2, use your graphic display calculator to systematically vary the value of n. Hence suggest an expression for even values of n describing, in terms of n, the number of
  - (i) local maximum points;
  - (ii) local minimum points.
- (e) Solve the equation  $f_n^+(x)=0$  and hence show that the stationary points on the graph of  $y=f_n(x)$  occur at  $x=\cos\frac{k\pi}{n}$  where  $k\in\mathbb{Z}^+$  and 0< k< n. [4]

The sequence of functions,  $f_{\theta}(x)$ , defined above can be expressed as a sequence of polynomials of degree n.

# **Mathematics Hl Paper 3 2011**

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#### **Mathematics Hl Paper 3 2011:**

Handbook of International Research in Mathematics Education Lyn D. English, David Kirshner, 2015-07-30 This third edition of the Handbook of International Research in Mathematics Education provides a comprehensive overview of the most recent theoretical and practical developments in the field of mathematics education Authored by an array of internationally recognized scholars and edited by Lyn English and David Kirshner this collection brings together overviews and advances in mathematics education research spanning established and emerging topics diverse workplace and school environments and globally representative research priorities New perspectives are presented on a range of critical topics including embodied learning the theory practice divide new developments in the early years educating future mathematics education professors problem solving in a 21st century curriculum culture and mathematics learning complex systems critical analysis of design based research multimodal technologies and e textbooks Comprised of 12 revised and 17 new chapters this edition extends the Handbook's original themes for international research in mathematics education and remains in the process a definitive resource for the field HC 593 - Post-study Work Schemes Great Britain. Parliament. House of Commons. Scottish Affairs Committee, 2016 The Scottish Affairs Committee has published a report calling for reform to visa rules for non EU students studying in Scotland who wish to remain in the UK to work after their studies In their report the Committee have found that current rules for students studying here to remain in Scotland are too restrictive and are preventing businesses from finding skilled workers Scotland faces different demographic challenges to the rest of the UK with a much lower birth rate and significant skills gaps in the workforce Sectors such as health energy and finance face particular problems in recruiting skilled graduate workers The Committee found that the closure of the Tier 1 Post Study Work visa in 2012 has harmed Scotland by making Scotland less competitive in the global education market with other nations able to offer prospective students greater employment opportunities after graduation Closing this visa has also prevented Scotland from making use of a pool of skilled workers educated in Scotland who could help mitigate Scotland's demographic challenges Since the Post Study Work visa was closed in 2012 the number of non EU students remaining in the UK after graduating has fallen by 80%

**Digital Games and Mathematics Learning** Tom Lowrie, Robyn Jorgensen (Zevenbergen), 2015-10-05 Digital games offer enormous potential for learning and engagement in mathematics ideas and processes This volume offers multidisciplinary perspectives of educators cognitive scientists psychologists and sociologists on how digital games influence the social activities and mathematical ideas of learners gamers Contributing authors identify opportunities for broadening current understandings of how mathematical ideas are fostered and embedded within digital game environments In particular the volume advocates for new and different ways of thinking about mathematics in our digital age proposing that these mathematical ideas and numeracy practices are distinct from new literacies or multiliteracies The authors acknowledge that the promise of digital games has not always been realised fulfilled There is emerging and considerable evidence to

suggest that traditional discipline boundaries restrict opportunities for mathematical learning Throughout the book what constitutes mathematics learnings and pedagogy is contested Multidisciplinary viewpoints are used to describe and understand the potential of digital games for learning mathematics and identify current tensions within the field Mathematics learning is defined as being about problem solving engagement in mathematical ideas and processes and social engagement. The artefact which is the game shapes the ways in which the gamers engage with the social activity of gaming In parallel the book as a textual artefact will be supported by Springer's online platform allowing for video and digital communication including links to relevant websites to be used as supplementary material and establish a dynamic communication space

**Survive the IB!** Nathan Taber, 2011 Math Education for America? Mark Wolfmeyer, 2013-12-04 Math Education for America analyzes math education policy through the social network of individuals and private and public organizations that influence it in the United States The effort to standardize a national mathematics curriculum for public schools in the U S culminated in 2010 when over 40 states adopted the Common Core State Standards for Mathematics Rather than looking at the text of specific policy documents this book complements existing critical reviews of the national math education curriculum by employing a unique social network analysis Breaking new ground in detailing and theorizing the politics of math education Wolfmeyer argues that the private interests of this network are closely tied to a web of interrelated developments human capital education policy debates over traditional and reform pedagogy the assumed content knowledge deficit of math teachers and the proliferation of profit driven educational businesses By establishing the interconnectedness of these interests with the national math education curriculum he shows how the purported goals of math education reform are aligned with the prevailing political agendas of this social network rather than the national interest How Chinese Acquire and Improve Mathematics Knowledge for Teaching Yeping Li, Rongjin Huang, 2018-05-16 While the importance of knowledge for effective instruction has long been acknowledged and the concept and structure of mathematics knowledge for teaching are far from being new the process of such knowledge acquisition and improvement remains underexplored empirically and theoretically The difficulty can well associate with the fact that different education systems embody different values for what mathematics teachers need to learn and how they can be assisted to develop their knowledge To improve this situation with needed consideration about a system context and policies How Chinese Acquire and Improve Mathematics Knowledge for Teaching takes a unique approach to present new research that views knowledge acquisition and improvement as part of teachers life long professional learning process in China The book includes such chapters that can help readers to make possible connections of teachers mathematical knowledge for teaching in China with educational policies and program structures for mathematics teacher education in that system context How Chinese Acquire and Improve Mathematics Knowledge for Teaching brings invaluable inspirations and insights to mathematics educators and teacher educators who wish to help teachers improve their knowledge and to researchers who study this important topic beyond a

static knowledge conception Transforming the Future of Learning with Educational Research Askell-Williams, Helen, 2015-01-31 The field of education is a vital component of today's society enriching and facilitating the attainment of new knowledge Progress continues to be achieved in this area as new methods are envisioned that increase education s value Transforming the Future of Learning with Educational Research brings together diverse perspectives that underscore the importance of research practices toward the enrichment of teaching Highlighting themes of learning diversity education communities and student wellbeing this book is an essential reference source for teacher educators researchers teaching practitioners and professionals interested in the value of research within the field of education Diploma Programme Marc Abrioux, Jill Rutherford, 2013-02-14 Schools wishing to introduce the IB diploma programme are faced with major investment in terms of time effort and money in order to become authorised This manual is a resource for schools already offering the diploma as well as for prospective diploma schools **Math Instruction for Students with** Learning Difficulties Susan Perry Gurganus, 2021-11-29 This richly updated third edition of Math Instruction for Students with Learning Difficulties presents a research based approach to mathematics instruction designed to build confidence and competence in preservice and inservice PreK 12 teachers Referencing benchmarks of both the National Council of Teachers of Mathematics and Common Core State Standards for Mathematics this essential text addresses teacher and student attitudes towards mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors Chapters on assessment and instruction precede strands that focus on critical concepts Replete with suggestions for class activities and field extensions the new edition features current research across topics and an innovative thread throughout chapters and strands multi tiered systems of support as they apply to mathematics instruction

<u>Combinatorial Optimization and Applications</u> Guohui Lin,2012-07-26 This book constitutes the refereed proceedings of the 6th International Conference COCOA 2012 held in Banff Alberta Canada in August 2012 The 33 revised papers including one invited talk and one keynote talk were carefully reviewed and selected from 57 submissions The papers are focused to theoretical results and also on recent works on experimental and applied research of general algorithmic interest

Advanced Mathematical Methods in Biosciences and Applications Faina Berezovskaya, Bourama Toni, 2019-09-19 Featuring contributions from experts in mathematical biology and biomedical research this edited volume covers a diverse set of topics on mathematical methods and applications in the biosciences Topics focus on advanced mathematical methods with chapters on the mathematical analysis of the quasispecies model Arnold's weak resonance equation bifurcation analysis and the Tonnelier Gerstner model Special emphasis is placed on applications such as natural selection population heterogeneity polyvariant ontogeny in plants cancer dynamics and analytical solutions for traveling pulses and wave trains in neural models A survey on quasiperiodic topology is also presented in this book Carefully peer reviewed this volume is suitable for students interested in interdisciplinary research Researchers in applied mathematics and the biosciences will

find this book an important resource on the latest developments in the field In keeping with the STEAM H series the editors hope to inspire interdisciplinary understanding and collaboration Learning and Teaching Early Math Douglas H. Clements. Julie Sarama, 2014-05-23 In this important book for pre and in service teachers early math experts Douglas Clements and Julie Sarama show how learning trajectories help diagnose a child's level of mathematical understanding and provide guidance for teaching By focusing on the inherent delight and curiosity behind young children's mathematical reasoning learning trajectories ultimately make teaching more joyous They help teachers understand the varying levels of knowledge exhibited by individual students which in turn allows them to better meet the learning needs of all children Using straightforward no nonsense language this book summarizes the current research about how children learn mathematics and how to build on what children already know to realize more effective teaching This second edition of Learning and Teaching Early Math remains the definitive research based resource to help teachers understand the learning trajectories of early mathematics and become quintessential professionals Updates to the new edition include Explicit connections between Learning Trajectories and the new Common Core State Standards New coverage of patterns and patterning Incorporation of hundreds of recent research studies **Arithmetic Tales** Olivier Bordellès, 2020-11-26 This textbook covers a wide array of topics in analytic and multiplicative number theory suitable for graduate level courses Extensively revised and extended this Advanced Edition takes a deeper dive into the subject with the elementary topics of the previous edition making way for a fuller treatment of more advanced topics The core themes of the distribution of prime numbers arithmetic functions lattice points exponential sums and number fields now contain many more details and additional topics. In addition to covering a range of classical and standard results some recent work on a variety of topics is discussed in the book including arithmetic functions of several variables bounded gaps between prime numbers la Yitang Zhang Mordell s method for exponential sums over finite fields the resonance method for the Riemann zeta function the Hooley divisor function and many others Throughout the book the emphasis is on explicit results Assuming only familiarity with elementary number theory and analysis at an undergraduate level this textbook provides an accessible gateway to a rich and active area of number theory With an abundance of new topics and 50% more exercises all with solutions it is now an even better guide for independent study Handbook of Urban Education H. Richard Milner IV, Kofi Lomotey, 2013-11-20 This volume brings together leading scholars in urban education to focus on inner city matters specifically as they relate to educational research theory policy and practice Each chapter provides perspectives on the history and evolving nature of urban education the current education landscape and helps chart an all important direction for future work and needs The Handbook addresses seven areas that capture the breadth and depth of available knowledge in urban education 1 Psychology Health and Human Development 2 Sociological Perspectives 3 Families and Communities 4 Teacher Education and Special Education 5 Leadership Administration and Leaders 6 Curriculum Instruction and 7 Policy and Reform Handbook of Effective Inclusive Schools

James McLeskey, Fred Spooner, Bob Algozzine, Nancy, L. Waldron, 2014-05-16 Over the last decade the educational context for students with disabilities has significantly changed primarily as a result of mandates contained in NCLB and IDEA The purpose of this book is to summarize the research literature regarding how students might be provided classrooms and schools that are both inclusive and effective Inclusive schools are defined as places where students with disabilities are valued and active participants in academic and social activities and are given supports that help them succeed Effectiveness is addressed within the current movement toward multi tiered systems of support and evidence based practices that meet the demands of high stakes accountability Multi-Attribute Decision-Making Method Based on Neutrosophic Soft Rough Information Muhammad Akram, Sundas Shahzadi, Florentin Smarandache, Soft sets SSs neutrosophic sets NSs and rough sets RSs are different mathematical models for handling uncertainties but they are mutually related In this research paper we introduce the notions of soft rough neutrosophic sets SRNSs and neutrosophic soft rough sets NSRSs as hybrid models for soft computing Neutrosophic Multi-Criteria Decision Making Florentin Smarandache, Jun Ye, Yanhui Guo, 2018-10-12 This book is a printed edition of the Special Issue Neutrosophic Multi Criteria Decision Making that was published in Axioms

Mathematical Modelling: From Theory To Practice Ngan Hoe Lee, Kit Ee Dawn Ng, 2015-01-19 This book documents the journey undertaken by educators from the Mathematics and Mathematics Education MME Academic Group in the National Institute of Education NIE and Singapore schools during a Mathematical Modelling Outreach MMO event in June 2010 under the guidance of renowned experts in the field of mathematical modelling The main goal of MMO was to reach out to Singapore primary and secondary schools and introduce the potentials of mathematical modelling as a platform for eliciting mathematical thinking communication and reasoning among students This book contributes to the expanding literature on mathematical modelling by offering voices from the Singaporean context It suggests how theoretical perspectives on mathematical modelling can be transformed into actual practice in schools all within the existing infrastructure of the current Singapore mathematics curriculum More importantly the book provides documentary evidence on how plans put in place through MMO in 2010 have since been realised The publication of this book is hence timely at this juncture Not only does the book record how MMO was among the first pebbles launched into the pond it also serves as a bridge over which educators can stand upon to view how the ripple effect had developed from the initial MMO pebble and the directions it may continue to extend Perhaps in the process other ripples in the teaching learning and research of mathematical modelling can be created Learning Disabilities Jeffrey P. Bakken, Festus E. Obiakor, Anthony F. Rotatori, 2013-01-25 Written by leaders in the field of learning disabilities this volume addresses various perspectives and issues related to learning disabilities It includes chapters Legal Issues and Learning Disabilities Themes and Dimensions of Learning Disabilities and Identification and Assessment of Students with LD **Integrated Approaches to STEM Education** Judy Anderson, Yeping Li, 2020-12-23 This book provides a platform for international scholars to share evidence

for effective practices in integrated STEM education and contributes to the theoretical and practical knowledge gained from the diversity of approaches Many publications on STEM education focus on one or two of the separate STEM disciplines without considering the potential for delivering STEM curriculum as an integrated approach This publication analyzes the efficacy of an integrated STEM curriculum and instruction providing evidence to examine and support various integrations. The volume focuses on the problems seen by academics working in the fields of science technology engineering and mathematics STEM and provides valuable high quality research outcomes and a set of valued practices which have demonstrated their use and viability to improve the quality of integrated STEM education

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