

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 $f_n(x) = \cos(n \arccos x)$, $-1 \leq x \leq 1$ and $n \in \mathbb{Z}^+$.

Important: When sketching 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 $y = f_3(x)$ for $-1 \leq x \leq 1$. [2]
- (b) For odd values of $n > 2$, use your graphic display calculator to systematically vary the value of n . Hence suggest an expression for odd values of n describing, in terms of n , the number of
- (i) local maximum points;
 - (ii) local minimum points. [4]
- (c) On a new set of axes, sketch the graphs of $y = f_2(x)$ and $y = f_4(x)$ for $-1 \leq x \leq 1$. [2]
- (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. [4]
- (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, $f_n(x)$, defined above can be expressed as a sequence of polynomials of degree n .

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CO Houle



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The Social Classroom: Integrating Social Network Use in Education Mallia, Gorg,2013-12-31 As technology is being integrated into educational processes teachers are searching for new ways to enhance student motivation and learning Through shared experiences and the results of empirical research educators can ease social networking sites into instructional usage The Social Classroom Integrating Social Network Use in Education collates different viewpoints on how social networking sites can be integrated in education Highlighting both formal and informal uses of social interaction tools as learning tools this book will be very useful to all educators trainers and academic researchers in all aspects of education looking for a theoretical practical approach to resourceful teaching

Proceedings of the 2nd International Conference on Mechanical System Dynamics Xiaoting Rui,Caishan Liu,2024-06-18 The 2nd International Conference of Mechanical System Dynamics ICMSD2023 is devoted to Technology Innovations by Understanding Mechanical Dynamics with 18 sessions to promote research in dynamic theories on complex structures multidisciplinary integration and advanced technologies for applications It is held on September 1 5 in Peking University Beijing China The conference is expected to provide a platform for academic researchers and engineers in the field of mechanical system dynamics to exchange scientific and technical ideas

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Handbook of the History and Philosophy of Mathematical Practice Bharath Sriraman, 2024-04-26

The purpose of this unique handbook is to examine the transformation of the philosophy of mathematics from its origins in the history of mathematical practice to the present It aims to synthesize what is known and what has unfolded so far as well as to explore directions in which the study of the philosophy of mathematics as evident in increasingly diverse mathematical practices is headed Each section offers insights into the origins debates methodologies and newer perspectives that characterize the discipline today Contributions are written by scholars from mathematics history and philosophy as well as other disciplines that have contributed to the richness of perspectives abundant in the study of philosophy today who describe various mathematical practices throughout different time periods and contrast them with the development of philosophy

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John Stillwell Emeritus Professor of Mathematics University of San Francisco Recipient of the 2005 Chauvenet Prize

Dedicating a volume to the memory of three mathematicians Chandler Davis Reuben Hersh and Yuri Manin who went out of their way to show to a broader audience that mathematics is more than what they might think is an excellent

initiative Gathering authors coming from many different backgrounds but who are very strict about the essays they write was successfully achieved by the editor in chief The result a great source of potential inspiration Jean Pierre Bourguignon Nicolaas Kuiper Honorary Professor at the Institut des Hautes tudes Scientifiques *STEM and the City* Clair Berube,SueAnne McKinney,2025-09-24 *STEM and the City* second edition is a book that takes the topics of the first edition and brings them into a post Covid educational world Drs Berube and McKinney use their experience in the classroom to reassure teachers especially STEM teachers that despite the current culture wars the children of America still need you

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published in honor of Mike Fellows on the occasion of his 60th birthday It contains 20 papers that showcase the important scientific contributions of this remarkable man describes the history of the field of parameterized complexity and also reflects on other parts of Mike Fellows s unique and broad range of interests including his work on the popularization of discrete mathematics for young children The volume contains several surveys that introduce the reader to the field of parameterized complexity and discuss important notions results and developments in this field Asymptotic Expansions A.

Erdélyi,2012-04-27 Various methods for asymptotic evaluation of integrals containing a large parameter and solutions of ordinary linear differential equations by means of asymptotic expansion **Synergetics** Hermann Haken,2012-12-06 This volume contains most of the invited papers presented at the International Work shop on Synergetics Schloss Elmau Bavaria May 2 to May 7 1977 This workshop fol lowed an International Symposium on SynergetiGS at Schloss Elmau 1972 and an Inter national SU1111erschoo1 at Erice Sicily 1974 Synergetics is a rather new field of interdisciplinary research which studies the self organized behavior of systems leading to the formation of structures and func tionings Indeed the whole universe seems to be organized with pronounced structures starting from spiral galaxies down to living cells Furthermore very many of the most interesting phenomena occur in systems which are far from thermal equilibrium Synergetics in its present form focusses its attention on those phenomena where dra matic changes occur on a macroscopic scale Here indeed Synergetics was able to re veal profound analogies between systems in different disciplines ranging from physics to sociology This volume contains contributions from various fields but the reader will easily discover their cOl11J1on goal Not only in the natural sciences but also in ecology sociology and economy man is confronted with the problems of complex sys tems The principles and analogies unearthed by Synergetics will certainly be very he1pfu to cope with such difficult problems I use this opportunity to thank the Vo1kswagenwerk Foundation for its support of the project Synergetics and in particular for sponsoring the International Workshop on Synergetics **Advances in Knowledge-based and Intelligent Information and Engineering Systems** Manuel Graña,2012 In this 2012 edition of Advances in Knowledge Based and Intelligent Information and Engineering Systems the latest innovations and advances in Intelligent Systems and related areas are presented by leading experts from all over the world The 228 papers that are included cover a wide range of topics One emphasis is on Information Processing which has become a pervasive phenomenon in our civilization While the majority of Information Processing is becoming intelligent in a very broad sense major research in Semantics Artificial Intelligence and Knowledge Engineering supports the domain specific applications that are becoming more and more present in our everyday living Ontologies play a major role in the development of Knowledge Engineering in various domains from Semantic Web down to the design of specific Decision Support Systems Research on Ontologies and their applications is a highly active front of current Computational Intelligence science that is addressed here Other subjects in this volume are modern Machine Learning Lattice Computing and Mathematical Morphology The wide scope and high quality of these contributions clearly

show that knowledge engineering is a continuous living and evolving set of technologies aimed at improving the design and understanding of systems and their relations with humans Handbook of Multicultural School Psychology Emilia C. Lopez, Sara G. Nahari, Sherrie Proctor, 2017-03-16 The second edition of the Handbook of Multicultural School Psychology continues the mission of its predecessor offering a comprehensive interdisciplinary view of the field of multicultural school psychology and addressing the needs of children and families from diverse cultural backgrounds The revised organizational structure includes the following History and Professional Issues Consultation and Collaboration Interventions Focused on Academic and Mental Health Issues Data based Decision Making Systems based Issues Training and Research and Future Perspectives Nineteen of the volume s twenty three chapters are completely new to this edition while the rest have been effectively revised and updated Comprehensive In seven sections this book covers theoretical research and practical concerns in a wide range of areas that include multicultural and bilingual issues second language acquisition acculturation parent collaboration research and systemic issues Chapter Structure Chapter authors follow a uniform structure that includes theoretical and research issues and implications for practice Recent practice and training guidelines including Blueprint for Training and Practice III 2006 NASP Model for Comprehensive and Integrated School Psychological Services 2010 and APA Multicultural Guidelines 2003 are covered Interdisciplinary Perspective Contributing authors are from a wide range of related fields that include school psychology special education general education early childhood education educational psychology clinical psychology counseling and mental health thus exposing readers to theory and research from various approaches Changes New to this edition is a section focusing on systemic issues such as overrepresentation of culturally and linguistically diverse CLD students in special education prejudice response to intervention RTI for CLD students and English Language Learners ELL and end of chapter discussion questions This book is ideal for graduate courses and seminars on multicultural school psychology It is also a useful reference for researchers and practicing school psychologists and the libraries that serve them Publications of the National Bureau of Standards United States. National Bureau of Standards, 1960 **Publications - United States. National Bureau of Standards** United States. National Bureau of Standards, 1960 Supplementary List of Publications of the National Bureau of Standards , 1960

Publications, July 1960 Through June 1966 United States. National Bureau of Standards, 1967 Advocating for English Learners Diane Staehr Fenner, 2013-09-11 Embrace the future by ensuring English Learners have a voice in school English Learners ELs are the fastest growing segment of the K 12 population But ELs and their families who are in the process of learning English and navigating an often unfamiliar education system may not have a powerful enough voice to articulate their needs Consequently all teachers and administrators must advocate for this all important diverse group of students who will become tomorrow s workforce This book demystifies the techniques of advocacy for ELs including A shared sense of responsibility for EL success Providing tools that every educator can use to ensure that ELs are effectively served An

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Finsler Geometry David Dai-Wai Bao, Shiing-Shen Chern, Zhongmin Shen, 1996 This volume features proceedings from the 1995 Joint Summer Research Conference on Finsler Geometry chaired by S S Chern and co chaired by D Bao and Z Shen The editors of this volume have provided comprehensive and informative capsules of presentations and technical reports This was facilitated by classifying the papers into the following 6 separate sections 3 of which are applied and 3 are pure Finsler Geometry over the reals Complex Finsler geometry Generalized Finsler metrics Applications to biology engineering and physics Applications to control theory Applications to relativistic field theory Each section contains a preface that provides a coherent overview of the topic and includes an outline of the current directions of research and new perspectives A short list of open problems concludes each contributed paper A number of photos are featured in the volumes for example that of Finsler In addition conference participants are also highlighted

Publications
United States. National Bureau of Standards, 1960

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