

Subject - Math(Higher Level)
Topic - Calculus
Year - Nov 2011 - Nov 2019
Paper -2

Question 1

[Maximum mark: 6]

A stalactite has the shape of a circular cone. Its height is 200 mm and is increasing at a rate of 3 mm per century. Its base radius is 40 mm and is decreasing at a rate of 0.5 mm per century. Determine if its volume is increasing or decreasing, and the rate at which the volume is changing.

Question 2

[Maximum mark: 5]

Consider the graph of $y = x + \sin(x-3)$, $-\pi \leq x \leq \pi$.

(a) Sketch the graph, clearly labelling the x and y intercepts with their values. *[3 marks]*

(b) Find the area of the region bounded by the graph and the x and y axes. *[2 marks]*

Nov 2014 Math Hl Paper 2

Hans-Peter Eckle



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The Next Step James Freemyer, 2019-11-04 This book is written on the behalf of mathematics teachers who have been asked to teach more conceptually while simultaneously motivating more students of all ability levels to willingly embrace further upper level mathematics content and courses This is a BIG ASK Math teachers are being expected to overhaul their current teaching approach Can teachers be expected to embrace this crusade alone isolated in a classroom Principals are charged with leading the way They must provide the opportunities and resources necessary for effective teacher collaboration After reading this book a principal will comprehend the enormity of task each mathematics teachers faces and learn what must be done to help School leaders will be able to design a growth plan based on a plethora of collaborative approaches Mathematics teachers will experience the assistance they have desperately needed **Principles and Practice of Constraint Programming** John Hooker, 2018-08-22 This book constitutes the proceedings of the 24th International Conference on Principles and Practice of Constraint Programming CP 2018 held in Lille France in August 2018 The 41 full and 9 short papers presented in this volume were carefully reviewed and selected from 114 submissions They deal with all aspects of computing with constraints including theory algorithms environments languages models systems and applications such as decision making resource allocation scheduling configuration and planning The papers were organized according to the following topics tracks main technical track applications track CP and data science CP and music CP and operations research CP optimization and power system management multiagent and parallel CP and testing and verification *Quality Assessment of Visual Content* Ke Gu, Hongyan Liu, Chengxu Zhou, 2022-10-19 This book provides readers with a comprehensive review of image quality assessment technology particularly applications on screen content images 3D synthesized images sonar images enhanced images light field images VR images and super resolution images It covers topics containing structural variation analysis sparse reference information multiscale natural scene statistical analysis task and visual perception contour degradation measurement spatial angular measurement local and global assessment metrics and more All of the image quality assessment algorithms of this book have a high efficiency with better performance compared to other image quality assessment algorithms and the performance of these approaches mentioned above can be demonstrated by the results of experiments on real world images On the basis of this those interested in relevant fields can use the results obtained through these quality assessment algorithms for further image processing The goal of this book is to facilitate the use of these image quality assessment algorithms by engineers and scientists from various disciplines such as optics electronics math photography techniques and computation techniques The book can serve as a reference for graduate students who are interested in image quality assessment techniques for front line researchers practicing these methods and for domain experts working in this area or conducting related application development **Recent Trends In Peripheral Security Systems** Abhishek Rawat, Dipankar Deb, Jatin Upadhyay, 2021-05-06 This book covers selected topics and methods

for peripheral security which are gaining attention nowadays The book discusses the security arrangement and methods for monitoring the inside outside entry of peripheral areas that need to be secured It relates to a periphery often portable device as well as the methods employed and systems including such a peripheral device and a host central command device with which the local geographical command device communicates enabling one or more security operations performed by the peripheral device It also covers the security scenario of snow prone areas in a remote location It also elaborates how we can secure the person and devices in extremely cold conditions and rescue them This book helps the researchers academicians and industry persons working in security areas to protect unauthentic entry in large scale areas that may be defense camps or civilian applications like large sized bungalows institutes and organizations of national importance The experimental results are in close conformance to the proposed methodologies

Putting the "Why" Back into Bone "Archytecture" Phil Salmon, Daniel Chappard, Andrew Anthony Pitsillides, 2017-07-27 A large literature exists on trabecular and cortical bone morphology The engineering performance of bone implied from its 3d architecture is often the endpoint of bone biology experiments being clinically relevant to bone fracture How and why does bone travel along its complex spatio temporal trajectory to acquire its architecture The question why can have two meanings The first teleological why is an architecture advantageous is the domain of substantial biomechanical research to date The second etiological how did an architecture come about has received far less attention This Frontiers Bone Research Topic invited contributions addressing this etiological why what mechanisms can coordinate the activity of bone forming and resorbing cells to produce the observed complex and efficient bone architectures One mechanism is proposed chaotic nonlinear pattern formation NPF which underlies in a unifying way natural structures as disparate as trabecular bone swarms of birds flying or shoaling fish island formation fluid turbulence and others At the heart of NPF is the fact that simple rules operating between interacting elements multiplied and repeated many times lead to complex and structured patterns This paradigm of growth and form leads to a profound link between bone regulation and its architecture in bone the architecture is the regulation The former is the emergent consequence of the latter Whatever mechanism does determine bone s developing architecture has to operate at the level of individual sites of formation and resorption and coupling between the two This has implications as to how we understand the effect on bone of agents such as gene products or drugs It may be for instance that the tuning of coupling between formation and resorption might be as important as the achievement of enhanced bone volume The ten articles that were contributed to this Topic were just what we hoped for a snapshot of leading edge bone biology research which addresses the question of how bone gets its shape We hope that you find these papers thought provoking and that they might stimulate new ideas in the research into bone architecture growth and adaptation and how to preserve healthy bone from gestation and childhood until old age

Handbook of Research on Classroom Diversity and Inclusive Education Practice Curran, Christina M., Petersen, Amy J., 2017-05-30 As classrooms are becoming more diverse teachers are now

faced with the responsibility of creating an inclusive classroom community As such researching classroom pedagogies and practices is an imperative step in curriculum planning The Handbook of Research on Classroom Diversity and Inclusive Education Practice is an authoritative reference source for the latest scholarly research on ways to effectively teach all students and further refine and strengthen school wide inclusive pedagogy methods and policies Featuring extensive coverage on a number of topics such as special education online learning and English language learners this publication is ideally designed for professionals educators and policy makers seeking current research on methods that ensure all students have equal access to curricular content and the chance for growth and success

Instructional Practices with and without Empirical Validity Bryan G. Cook, Melody Tankersley, Timothy J. Landrum, 2016-07-06 It is important for Stakeholders to be aware of both practices supported as effective as well as ineffective for students with learning and behavioral disabilities in order to provide instruction that results in improved learner outcomes in critical areas of education

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 Editorial Advisory Board Andrew Aberdein Florida Institute of Technology USA Jody Azzouni Tufts University USA Ot vio Bueno University of Miami USA William Byers Concordia University Canada Carlo Cellucci Sapienza University of Rome Italy Chandler Davis University of Toronto Canada 1926 2022 Paul Ernest University of Exeter UK Michele Friend George Washington University USA Reuben Hersh University of New Mexico USA 1927 2020 Kyeong Hwa Lee Seoul National University South Korea Yuri Manin Max Planck Institute for Mathematics Germany 1937 2023 Athanase Papadopoulos University of Strasbourg France Ulf Persson Chalmers University of Technology Sweden John Stillwell University of San Francisco USA David Tall University of Warwick UK 1941 2024 This book with its exciting depth and breadth illuminates us about the history practice and the very language of our subject about the role of abstraction of proof and manners of proof about the interplay of fundamental intuitions about algebraic thought in contrast to geometric thought The richness of mathematics and the philosophy encompassing it is splendidly exhibited over the wide range of time these volumes cover from deep platonic and neoplatonic influences to the most current experimental approaches Enriched as well with vivid biographies and brilliant personal essays written by and about people who play an important role in our tradition this

extraordinary collection of essays is fittingly dedicated to the memory of Chandler Davis Reuben Hersh and Yuri Manin Barry Mazur Gerhard Gade University Professor Harvard University This encyclopedic Handbook will be a treat for all those interested in the history and philosophy of mathematics Whether one is interested in individuals from Pythagoras through Newton and Leibniz to Grothendieck fields geometry algebra number theory logic probability analysis viewpoints from Platonism to Intuitionism or methods proof experiment computer assistance the reader will find a multitude of chapters that inform and fascinate 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 études Scientifiques Wiring the Streets, Surfing the Square Timothy Jachna, 2021-03-18 This book investigates the production of public space in contemporary urban contexts as conditioned by the suffusion of urban life with digital technologies A social production of technology approach is taken to frame the digitally mediated city as a communal social and cultural project Acknowledging the multivalent and shifting nature of public space and the heterogeneity of the urban actors who form it the agency of these different actors in appropriating digital technologies takes center stage The dynamics of negotiations between regimes of control and impulses towards freedom and experimentation the entanglement of the spatial commons and the digital commons changes in the notions of what constitutes membership in a public or counterpublic and evolving relationships between the various individuals and groups who share and constitute public space are all revealed in different actors appropriation of digital technologies in the formation of public spaces and the conducting of public life in cities The book is divided into two sections Drawing on classic and contemporary scholars on public space and on digital culture Section I explores the implications of the convergence of these bodies of knowledge and lenses of critique and examination on the present urban condition establishing a conceptual foundation upon which public space discourse is brought to bear on an interrogation of the wired or mediated city Structured by the core concepts that underlie Hannah Arendt's notion of agency in the constitution of the public sphere Section II is devoted to discussing and demonstrating through myriad concrete examples how different affordances of digital technologies are implicated in the production of public space and in the interplay between urban governance and control urban life and citizenship and urban commodification The topics in this book are of broad and current international relevance and will appeal to scholars and students in architecture urbanism design sociology and digital culture Cognitive Systems and Signal Processing Fuchun Sun, Huaping Liu, Dewen Hu, 2017-07-07 This book constitutes the refereed proceedings of the Third International Conference on Cognitive Systems and Signal Processing ICCSIP2016 held

in Beijing China in December 2016 The 59 revised full papers presented were carefully reviewed and selected from 171 submissions The papers are organized in topical sections on Control and Decision Image and Video Machine Learning Robotics Cognitive System Cognitive Signal Processing *New Developments in Environmental and Energy Technologies* Jan Baeyens,Raf Dewil,Barbara Rossi,Yimin Deng,2025-03-27 This book presents the selected papers from the 2023 5th International Conference on Environmental Sciences and Renewable Energy ESRE 2023 which was held as a hybrid conference during June 19 21 2023 in Vienna Austria The book includes first rate original research on various aspects of environmental sciences and renewable energy offering perspectives from industrial and research communities to address current challenges in related fields In the field of environmental science wastewater and sludge treatment air pollution and control global environmental change and ecosystems management are discussed In the area of renewable energy several hot topics are presented including solar energy energy conservation and recovery and hydrogen generation and application This book supports the transfer of vital knowledge to next generation researchers students and practitioners in academia and industry HCI International 2020 - Late Breaking Papers: Cognition, Learning and Games Constantine Stephanidis,Don Harris,Wen-Chin Li,Dylan D. Schmorrow,Cali M. Fidopiastis,Panayiotis Zaphiris,Andri Ioannou,Xiaowen Fang,Robert A. Sottolare,Jessica Schwarz,2020-10-03 This book constitutes late breaking papers from the 22nd International Conference on Human Computer Interaction HCII 2020 which was held in July 2020 The conference was planned to take place in Copenhagen Denmark but had to change to a virtual conference mode due to the COVID 19 pandemic From a total of 6326 submissions a total of 1439 papers and 238 posters have been accepted for publication in the HCII 2020 proceedings before the conference took place In addition a total of 333 papers and 144 posters are included in the volumes of the proceedings published after the conference as Late Breaking Work papers and posters These contributions address the latest research and development efforts in the field and highlight the human aspects of design and use of computing systems **Adaptive Instructional Systems. Design and Evaluation** Robert A. Sottolare,Jessica Schwarz,2021-07-03 This two volume set LNCS 12792 and 12793 constitutes the refereed proceedings of the Third International Conference on Adaptive Instructional Systems AIS 2021 held as Part of the 23rd International Conference HCI International 2021 which took place in July 2021 Due to COVID 19 pandemic the conference was held virtually The total of 1276 papers and 241 posters included in the 39 HCII 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions The papers of AIS 2021 Part I are organized in topical sections named Conceptual Models and Instructional Approaches for AIS Designing and Developing AIS Evaluation of AIS Adaptation Strategies and Methods in AIS Chapter Personalized Mastery Learning Ecosystems Using Bloom s Four Objects of Change to Drive Learning in Adaptive Instructional Systems is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) *Regional Research Frontiers - Vol. 1* Randall Jackson,Peter Schaeffer,2017-04-17 This volume focuses on frontiers in regional research and identifies trends and

future developments in the areas of innovation regional growth and migration It also addresses topics such as mobility regional forecasting and regional policy and includes expert contributions on disasters resilience and sustainability Building on recent methodological and modelling advances as well as on extensive policy analysis experience top international regional scientists identify and evaluate emerging new conceptual and methodological trends and directions in regional research This book will appeal to a wide readership from regional scientists and economists to geographers quantitatively oriented regional planners and other related disciplines It offers a source of relevant information for academic researchers and policy analysts in government and is also suitable for advanced teaching courses on regional and spatial science economics and political science **Applied Mechanics Reviews** ,1966

Undergraduate Research Experiences for STEM Students National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Life Sciences, Division of Behavioral and Social Sciences and Education, Board on Science Education, Committee on Strengthening Research Experiences for Undergraduate STEM Students, 2017-05-19 Undergraduate research has a rich history and many practicing researchers point to undergraduate research experiences UREs as crucial to their own career success There are many ongoing efforts to improve undergraduate science technology engineering and mathematics STEM education that focus on increasing the active engagement of students and decreasing traditional lecture based teaching and UREs have been proposed as a solution to these efforts and may be a key strategy for broadening participation in STEM In light of the proposals questions have been asked about what is known about student participation in UREs best practices in UREs design and evidence of beneficial outcomes from UREs Undergraduate Research Experiences for STEM Students provides a comprehensive overview of and insights about the current and rapidly evolving types of UREs in an effort to improve understanding of the complexity of UREs in terms of their content their surrounding context the diversity of the student participants and the opportunities for learning provided by a research experience This study analyzes UREs by considering them as part of a learning system that is shaped by forces related to national policy institutional leadership and departmental culture as well as by the interactions among faculty other mentors and students The report provides a set of questions to be considered by those implementing UREs as well as an agenda for future research that can help answer questions about how UREs work and which aspects of the experiences are most powerful **Unconventional Tight**

Reservoir Simulation: Theory, Technology and Practice Qiquan Ran, 2020-08-14 This book systematically introduces readers to the simulation theory and techniques of multiple media for unconventional tight reservoirs It summarizes the macro microscopic heterogeneities the features of multiscale multiple media the characteristics of complex fluid properties the occurrence state of continental tight oil and gas reservoirs in China and the complex flow characteristics and coupled production mechanism under unconventional development patterns It also discusses the simulation theory of multiple media for unconventional tight oil and gas reservoirs mathematic model of flow through discontinuous multiple media geological

modeling of discrete multiscale multiple media and the simulation of multiscale multiphase flow regimes and multiple media In addition to the practical application of simulation and software for unconventional tight oil and gas it also explores the development trends and prospects of simulation technology The book is of interest to scientific researchers and technicians engaged in the development of oil and gas reservoirs and serves as a reference resource for advanced graduate students in fields related to petroleum Rethinking Map Literacy Ming Xie, Steven Reader, H. L. Vacher, 2021-03-29 This book provides two conceptual frameworks for further investigation of map literacy and fills in a gap in map literacy studies addressing the distinction between reference maps and thematic maps and the varying uses of quantitative map literacy QML within and between the two The text offers two conceptual frameworks and uses specific map examples to explore this variability in map reading skills and knowledge with the goal of informing educational pedagogy and practices within geography and related disciplines The book will appeal to cartographers and geographers as a new perspective on a tool of communication they have long employed in their disciplines and will also appeal to those involved in the educational pedagogy of information and data literacy as a way to conceptualize the development of curricula and teaching materials in the increasingly important arena of the interplay between quantitative data and map based graphics The first framework discussed is based on a three set Venn model and addresses the content and relationships of three literacies map literacy quantitative literacy and background information As part of this framework the field of QML is introduced conceptualized and defined as the knowledge concepts skills and facts required to accurately read use interpret and understand the quantitative information embedded in geographic backgrounds The second framework is of a compositional triangle based on 1 the ratio of reference to thematic map purpose and 2 the level of generalization and or distortion within maps In combination these two parameters allow for any type of map to be located within the triangle as a prelude to considering the type and level of quantitative literacy that comes into play during map reading Based on the two frameworks mentioned above the pedagogical tool of word problems is applied to map literacy in an innovative way to explore the variability of map reading skills and knowledge based on specific map examples **The Formative 5 in Action, Grades K-12** Francis (Skip) Fennell, Beth McCord Kobett, Jonathan A. Wray, 2023-06-27 Leverage formative assessment in mathematics every single day For fans of the bestselling book *The Formative 5: Everyday Assessment Techniques for Every Math Classroom* comes this updated and expanded edition for understanding and implementing highly effective research backed formative assessment techniques into seamless daily practice with students in grades K 12 *The Formative 5 in Action* serves as an interactive guide that steers teachers toward successful implementation of the formative five techniques of observation interviews Show Me hinge questions and exit tasks This updated guidebook offers More than 120 minutes of video examples of the five techniques in action in real K 12 classrooms showing teachers not just what to do but how to do it An engaging format with built in reflection exercises and activities that foster individual professional learning and promote PLC study through discussion and

collaboration An explicit emphasis on providing effective and timely feedback to students while harnessing student strengths throughout teaching and learning Comprehensive responses to teachers frequently asked questions that have surfaced since the publication of the first book The research is clear the authors five formative assessment techniques lead to greater attention to planning stronger instruction for teachers and better achievement for students The Formative 5 in Action is a truly engaging resource that helps mathematics teachers and instructional leaders engage in classroom based formative assessment with precision intentionality and ease

Models of Quantum Matter Hans-Peter Eicke, 2019-07-29 An important task of theoretical quantum physics is the building of idealized mathematical models to describe the properties of quantum matter This book provides an introduction to the arguably most important method for obtaining exact results for strongly interacting models of quantum matter the Bethe ansatz It introduces and discusses the physical concepts and mathematical tools used to construct realistic models for a variety of different fields including condensed matter physics and quantum optics The various forms of the Bethe ansatz algebraic coordinate multicomponent and thermodynamic Bethe ansatz and Bethe ansatz for finite systems are then explained in depth and employed to find exact solutions for the physical properties of the integrable forms of strongly interacting quantum systems The Bethe ansatz is one of the very few methodologies which can calculate physical properties non perturbatively Arguably it is the only such method we have which is exact This means once the model has been set up no further approximations or assumptions are necessary and the relevant physical properties of the model can be computed exactly Furthermore an infinite set of conserved quantities can be obtained The quantum mechanical model under consideration is fully integrable This makes the search for quantum models which are amenable to an exact solution by the Bethe ansatz and which are quantum integrable so important and rewarding The exact solution will provide benchmarks for other models which do not admit an exact solution Bethe ansatz techniques provide valuable insight into the physics of strongly correlated quantum matter

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