Question 1

(a)   attempting to use the change of base rule   *M1*

$$\log_9(\cos 2x + 2) = \frac{\log_3(\cos 2x + 2)}{\log_3 9}$$ *A1*

$$= \frac{1}{2}\log_3(\cos 2x + 2)$$ *A1*

$$= \log_3 \sqrt{\cos 2x + 2}$$ *AG*

[3 marks]

(b) $\log_3(2\sin x) = \log_3 \sqrt{\cos 2x + 2}$

$2\sin x = \sqrt{\cos 2x + 2}$ *M1*

$4\sin^2 x = \cos 2x + 2$ (or equivalent)   *A1*

use of $\cos 2x = 1 - 2\sin^2 x$ *(M1)*

$6\sin^2 x = 3$

$\sin x = (-)\dfrac{1}{\sqrt{2}}$ *A1*

$x = \dfrac{\pi}{4}$ *A1*

Note: Award *A0* if solutions other than $x = \dfrac{\pi}{4}$ are included.

[5 marks]

Total [8 marks]

May 2013 Math Sl

Robert B. Northrop

May 2013 Math Sl:

   Educational Psychology Tony Cline,Anthea Gulliford,Susan Birch,2023-07-27 Now in its third edition Educational Psychology offers a comprehensive overview of how key advances in social developmental and cognitive psychology impact upon the role of educational psychologists working today Written by leading researchers the book also explores controversies and dilemmas in both research and practice providing students with a balanced and cutting edge introduction to both the field and the profession Fully revised throughout and with a new chapter exploring how educational psychologists work with schools to support children and young people s mental health this third edition aims to encourage students to integrate their understanding of core psychological disciplines as well as to consider what evidence informed practice really means Organised into two broad sections related to learning and to social emotional and mental health the book features a selection of vignettes from educational psychologists working in a range of contexts as well as tasks and scenarios to support a problem orientated approach to study By integrating both research and everyday practice the book is unique in engaging a critical appreciation of both the possibilities and limitations of educational psychology lt is the ideal book for any student wishing to engage with this important and evolving field of study   **Hyperbolic Dynamics, Fluctuations and Large Deviations** D. Dolgopyat, Y. Pesin,M. Pollicott, L. Stoyanov,2015-04-01 This volume contains the proceedings of the semester long special program on Hyperbolic Dynamics Large Deviations and Fluctuations which was held from January June 2013 at the Centre Interfacultaire Bernoulli cole Polytechnique F d rale de Lausanne Switzerland The broad theme of the program was the long term behavior of dynamical systems and their statistical behavior During the last 50 years the statistical properties of dynamical systems of many different types have been the subject of extensive study in statistical mechanics and thermodynamics ergodic and probability theories and some areas of mathematical physics The results of this study have had a profound effect on many different areas in mathematics physics engineering and biology The papers in this volume cover topics in large deviations and thermodynamics formalism and limit theorems for dynamic systems The material presented is primarily directed at researchers and graduate students in the very broad area of dynamical systems and ergodic theory but will also be of interest to researchers in related areas such as statistical physics spectral theory and some aspects of number theory and geometry   **Secondary Maths in Action** Emma McCrea,2025-07-11 In Secondary Maths in Action experienced curriculum expert and maths teacher Emma McCrea offers insights into the complex task of teaching maths Taking an evidence informed stance Emma first explores the age old question of why we study maths and the important role it plays in our lives and in society Next she examines several pertinent debates in maths those of pupil grouping mastery and gender Finally we are taken on a grand tour of curriculum pedagogy and assessment as the fundamental pillars of great teaching Additionally the book includes four rich case studies revisited throughout the curriculum pedagogy and assessment chapters which help to showcase how these ideas can be applied in various contexts so you can really see what it all looks like In

Action **Educational Paths to Mathematics** Uwe Gellert,Joaquim Giménez Rodríguez,Corinne Hahn,Sonia Kafoussi,2015-05-18 This book offers fresh insight and understanding of the many ways in which children youth and adults may find their paths to mathematics The chapters of the volume offer and analyse promising new ways into mathematics The focus is on spaces and modalities of learning dialogue and inquiry embodiment and aesthetic experience information and communication technology and on the use of mathematics in public communication The chapters present new mathematical activities and conceptions enriching the repertoire of mathematics education practices Critical commentaries discuss the innovative potential of the new approaches to the teaching and learning of mathematics As a consequence the commentaries point to requirements and open issues in the field of research in mathematics education The volume is remarkably international Teachers and researchers from 14 countries authored 21 chapters and 7 commentaries The reader is invited to reflect on the particular effect of presenting avenues to mathematics contrived in diverse national settings in which the praxis of mathematics education might look different compared to what happens in the reader s place The book starts a series of sourcebooks edited by CIEAEM the Commission Internationale pour l Etude et l Am lioration de l Enseignement des Math matiques International Commission for the Study and Improvement of Mathematics Education **Teaching Secondary and Middle School Mathematics** Daniel J. Brahier,2024-01-22 Teaching Secondary and Middle School Mathematics combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The seventh edition has been updated and expanded with particular emphasis on the latest technology standards and other resources The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a classroom for success Features include Following on from the sixth edition assessment takes a central role in planning and teaching Unit 3 of 5 addresses the use of summative and formative assessments to inform classroom teaching practices A new appendix is included that lists websites that can be used in a methods class to view other teachers interacting with students for discussion of effective teaching practices The feature entitled Links and Resources has been updated in each of the 13 chapters Five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most important

materials on the topic Approximately 150 new citations have either replaced or been added to the text to reflect the latest in research materials and resources that support the teaching of mathematics Significant revisions have been made to Chapter 12 which now includes updated research and practices as well as a discussion on culturally responsive pedagogy Likewise Chapter 8 now includes a description of best and high leverage teaching practices and a discussion in Chapter 11 on alternative high school mathematics electives for students has been added Chapter 9 on the practical use of classroom technology has again been revised to reflect the latest tools available to classroom teachers including apps that can be run on handheld personal devices in light of changes in education resulting from the global pandemic An updated Instructor s Manual features a test bank sample classroom activities PowerPoint slide content chapter summaries and learning outcomes for each chapter and can be accessed by instructors online at www routledge com 9781032472867 *Abstract Mathematical Cognition* Wolfgang Grodd,Philippe Chassy,2016-08-09 Despite the importance of mathematics in our educational systems little is known about how abstract mathematical thinking emerges Under the uniting thread of mathematical development we hope to connect researchers from various backgrounds to provide an integrated view of abstract mathematical cognition Much progress has been made in the last 20 years on how numeracy is acquired Experimental psychology has brought to light the fact that numerical cognition stems from spatial cognition The findings from neuroimaging and single cell recording experiments converge to show that numerical representations take place in the intraparietal sulcus Further research has demonstrated that supplementary neural networks might be recruited to carry out subtasks for example the retrieval of arithmetic facts is done by the angular gyrus Now that the neural networks in charge of basic mathematical cognition are identified we can move onto the stage where we seek to understand how these basics skills are used to support the acquisition and use of abstract mathematical concepts *Psychology and Mathematics Education* Gila Hanna,Laura Macchi,Karin Binder,Laura Martignon,Katharina Loibl,2023-09-05 Modern Mathematics is constructed rigorously through proofs based on truths which are either axioms or previously proven theorems Thus it is par excellence a model of rational inquiry Links between Cognitive Psychology and Mathematics Education have been particularly strong during the last decades Indeed the Enlightenment view of the rational human mind that reasons makes decisions and solves problems based on logic and probabilities was shaken during the second half of the twentieth century Cognitive psychologists discovered that humans thoughts and actions often deviate from rules imposed by strict normative theories of inference Yet these deviations should not be called errors as Cognitive Psychologists have demonstrated these deviations may be either valid heuristics that succeed in the environments in which humans have evolved or biases that are caused by a lack of adaptation to abstract information formats Humans as the cognitive psychologist and economist Herbert Simon claimed do not usually optimize but rather satisfice even when solving problem This Research Topic aims at demonstrating that these insights have had a decisive impact on Mathematics Education We want to stress that we are concerned with the view of

bounded rationality that is different from the one espoused by the heuristics and biases program In Simon s bounded rationality and its direct descendant ecological rationality rationality is understood in terms of cognitive success in the world correspondence rather than in terms of conformity to content free norms of coherence e g transitivity   *A Century of Advancing Mathematics* Paul Zorn,2015-08-23 The MAA was founded in 1915 to serve as a home for The American Mathematical Monthly The mission of the Association to advance mathematics especially at the collegiate level has however always been larger than merely publishing world class mathematical exposition MAA members have explored more than just mathematics we have as this volume tries to make evident investigated mathematical connections to pedagogy history the arts technology literature every field of intellectual endeavor Essays all commissioned for this volume include exposition by Bob Devaney Robin Wilson and Frank Morgan history from Karen Parshall Della Dumbaugh and Bill Dunham pedagogical discussion from Paul Zorn Joe Gallian and Michael Starbird and cultural commentary from Bonnie Gold Jon Borwein and Steve Abbott This volume contains 35 essays by all star writers and expositors writing to celebrate an extraordinary century for mathematics more mathematics has been created and published since 1915 than in all of previous recorded history We ve solved age old mysteries created entire new fields of study and changed our conception of what mathematics is Many of those stories are told in this volume as the contributors paint a portrait of the broad cultural sweep of mathematics during the MAA s first century Mathematics is the most thrilling the most human area of intellectual inquiry you will find in this volume compelling proof of that claim   *Working Memory and Clinical Developmental Disorders* Tracy Packiam Alloway,2018-03-19 This comprehensive volume brings together international experts involved in applying and developing understanding of Working Memory in the context of a variety of neurodevelopmental disorders neurocognitive disorders and depressive disorders Each chapter provides a description of the disorder and investigates the Working Memory and related Executive Function deficits It goes on to provide a neurological profile before exploring the impact of the disorder in daily functions the current debates related to this disorder and the potential effects of medication and intervention Through combining coverage of theoretical understanding methods of assessment and different evidence based intervention programs the book supports clinical assessment and management of poor Working Memory It is essential reading for students in neurodevelopmental disorders atypical development and developmental psychopathology as well as allied health professionals clinicians and those working with children in education and healthcare settings   *Handbook of Differential Equations* Daniel Zwillinger,Vladimir Dobrushkin,2021-12-30 Through the previous three editions Handbook of Differential Equations has proven an invaluable reference for anyone working within the field of mathematics including academics students scientists and professional engineers The book is a compilation of methods for solving and approximating differential equations These include the most widely applicable methods for solving and approximating differential equations as well as numerous methods Topics include methods for ordinary differential equations partial differential equations

stochastic differential equations and systems of such equations Included for nearly every method are The types of equations to which the method is applicable The idea behind the method The procedure for carrying out the method At least one simple example of the method Any cautions that should be exercised Notes for more advanced users The fourth edition includes corrections many supplied by readers as well as many new methods and techniques These new and corrected entries make necessary improvements in this edition   **UAV Sensors for Environmental Monitoring** Felipe Gonzalez Toro,Antonios Tsourdos,2018-03-05 This book is a printed edition of the Special Issue UAV Sensors for Environmental Monitoring that was published in Sensors   *Numerical Development - From cognitive functions to neural underpinnings* Korbinian Moeller,Elise Klein,Klaus F Willmes - von Hinckeldey,Karin Kucian,2015-02-24 Living at the beginning of the 21st century requires being numerate because numerical abilities are not only essential for life prospects of individuals but also for economic interests of post industrial knowledge societies Thus numerical development is at the core of both individual as well as societal interests There is the notion that we are already born with a very basic ability to deal with small numerosities Yet this often called number sense seems to be very restricted approximate and driven by perceptual constraints During our numerical development in formal e g school but also informal contexts e g family street we acquire culturally developed abstract symbol systems to represent exact numerosities in particular number words and Arabic digits refining our numerical capabilities In recent years numerical development has gained increasing research interest documented in a growing number of behavioural neuro scientific educational cross cultural and neuropsychological studies addressing this issue Additionally our understanding of how numerical competencies develop has also benefitted considerably from the advent of different neuro imaging techniques allowing for an evaluation of developmental changes in the human brain In sum we are now starting to put together a more and more coherent picture of how numerical competencies develop and how this development is associated with neural changes as well In the end this knowledge might also lead to a better understanding of the reasons for atypical numerical development which often has grieve consequences for those who suffer from developmental dyscalculia or mathematics learning disabilities Therefore this Research Topic deals with all aspects of numerical development findings from behavioural performance to underlying neural substrates from cross sectional to longitudinal evaluations from healthy to clinical populations To this end we included empirical contributions using different experimental methodologies but also theoretical contributions review articles or opinion papers   **High Performance Computing** Michela Taufer,Bernd Mohr,Julian M. Kunkel,2016-10-05 This book constitutes revised selected papers from 7 workshops that were held in conjunction with the ISC High Performance 2016 conference in Frankfurt Germany in June 2016 The 45 papers presented in this volume were carefully reviewed and selected for inclusion in this book They stem from the following workshops Workshop on Exascale Multi Many Core Computing Systems E MuCoCoS Second International Workshop on Communication Architectures at Extreme Scale ExaComm HPC I O in the Data Center Workshop HPC IODC International Workshop on

OpenPOWER for HPC IWOPH Workshop on the Application Performance on Intel Xeon Phi Being Prepared for KNL and Beyond IXPUG Workshop on Performance and Scalability of Storage Systems WOPSSS and International Workshop on Performance Portable Programming Models for Accelerators P3MA   *Mathematical and Statistics Anxiety: Educational, Social, Developmental and Cognitive Perspectives* Kinga Morsanyi,Irene Cristina Mammarella,Denes Szűcs,Carlo Tomasetto,Caterina Primi,Erin Anne Maloney,2017-01-19 Mathematical anxiety is a feeling of tension apprehension or fear which arises when a person is faced with mathematical content The negative consequences of mathematical anxiety are well documented Students with high levels of mathematical anxiety might underperform in important test situations they tend to hold negative attitudes towards mathematics and they are likely to opt out of elective mathematics courses which also affects their career opportunities Although at the university level many students do not continue to study mathematics social science students are confronted with the fact that their disciplines involve learning about statistics another potential source of anxiety for students who are uncomfortable with dealing with numerical content Research on mathematical anxiety is a truly interdisciplinary field with contributions from educational developmental cognitive social and neuroscience researchers The current collection of papers demonstrates the diversity of the field offering both new empirical contributions and reviews of existing studies The contributors also outline future directions for this line of research   **Innovations In Insurance, Risk- And Asset Management - Proceedings Of The Innovations In Insurance, Risk- And Asset Management Conference** Kathrin Glau,Daniel Linders,Aleksey Min,Matthias Scherer,Lorenz Schneider,Rudi Zagst,2018-09-14 This book covers recent developments in the interdisciplinary fields of actuarial science quantitative finance risk and asset management The authors are leading experts from academia and practice who participated in Innovations in Insurance Risk and Asset Management an international conference held at the Technical University of Munich in 2017 The topics covered include the mathematics of extreme risks systemic risk model uncertainty interest rate and hybrid models alternative investments dynamic investment strategies quantitative risk management asset liability management liability driven investments and behavioral finance This timely selection of topics is highly relevant for the financial industry and addresses current issues both from an academic as well as from a practitioner s point of view   *The Math Teacher's Toolbox* Bobson Wong,Larisa Bukalov,2020-06-04 Math teachers will find the classroom tested lessons and strategies in this book to be accessible and easily implemented in the classroom The Teacher s Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Math Teacher s Toolbox contains hundreds of student friendly classroom lessons and teaching strategies Clear and concise chapters fully aligned to Common Core math standards cover the underlying research required technology practical classroom use and

modification of each high value lesson and strategy This book employs a hands on approach to help educators quickly learn and apply proven methods and techniques in their mathematics courses Topics range from the planning of units lessons tests and homework to conducting formative assessments differentiating instruction motivating students dealing with math anxiety and culturally responsive teaching Easy to read content shows how and why math should be taught as a language and how to make connections across mathematical units Designed to reduce instructor preparation time and increase student engagement and comprehension this book Explains the usefulness application and potential drawbacks of each instructional strategy Provides fresh activities for all classrooms Helps math teachers work with ELLs advanced students and students with learning differences Offers real world guidance for working with parents guardians and co teachers The Math Teacher s Toolbox Hundreds of Practical ideas to Support Your Students is an invaluable source of real world lessons strategies and techniques for general education teachers and math specialists as well as resource specialists special education teachers elementary and secondary educators and teacher educators   **Photoacoustic Tomography (PAT)** Xueding Wang,Xinmai Yang,Xose Luis Dean-Ben,2021-02-17 Photoacoustic or optoacoustic imaging including photoacoustic tomography PAT and photoacoustic microscopy PAM is an emerging imaging modality with great clinical potential PAI s deep tissue penetration and fine spatial resolution also hold great promise for visualizing physiology and pathology at the molecular level PAI combines optical contrast with ultrasonic resolution and is capable of imaging at depths of up to 7 cm with a real time scalable spatial resolution of 10 to 500 m PAI has demonstrated applications in brain imaging and cancer imaging such as breast cancer prostate cancer ovarian cancer etc This Special Issue focuses on the novel technological developments and pre clinical and clinical biomedical applications of PAI Topics include but are not limited to brain imaging cancer imaging image reconstruction quantitative imaging light source and delivery for PAI photoacoustic detectors nanoparticles designed for PAI photoacoustic molecular imaging photoacoustic spectroscopy   Magneto-Active Polymers Jean-Paul Pelteret,Paul Steinmann,2019-12-16 From fabrication to testing and modeling this monograph covers all aspects on the materials class of magneto active polymers The focus is on computational modeling of manufacturing processes and material parameters As other smart materials these elastomers have the ability to change electrical and mechanical properties upon application of magnetic fields This allows for novel applications ranging from biomedical engineering to mechatronics   **Introduction to Instrumentation and Measurements** Robert B. Northrop,2018-09-03 Weighing in on the growth of innovative technologies the adoption of new standards and the lack of educational development as it relates to current and emerging applications the third edition of Introduction to Instrumentation and Measurements uses the authors 40 years of teaching experience to expound on the theory science and art of modern instrumentation and measurements I M What s New in This Edition This edition includes material on modern integrated circuit IC and photonic sensors micro electro mechanical MEM and nano electro mechanical NEM sensors chemical and radiation sensors signal conditioning noise data interfaces and basic digital

signal processing DSP and upgrades every chapter with the latest advancements It contains new material on the designs of micro electro mechanical MEMS sensors adds two new chapters on wireless instrumentation and microsensors and incorporates extensive biomedical examples and problems Containing 13 chapters this third edition Describes sensor dynamics signal conditioning and data display and storage Focuses on means of conditioning the analog outputs of various sensors Considers noise and coherent interference in measurements in depth Covers the traditional topics of DC null methods of measurement and AC null measurements Examines Wheatstone and Kelvin bridges and potentiometers Explores the major AC bridges used to measure inductance Q capacitance and D Presents a survey of sensor mechanisms Includes a description and analysis of sensors based on the giant magnetoresistive effect GMR and the anisotropic magnetoresistive AMR effect Provides a detailed analysis of mechanical gyroscopes clinometers and accelerometers Contains the classic means of measuring electrical quantities Examines digital interfaces in measurement systems Defines digital signal conditioning in instrumentation Addresses solid state chemical microsensors and wireless instrumentation Introduces mechanical microsensors MEMS and NEMS Details examples of the design of measurement systems Introduction to Instrumentation and Measurements is written with practicing engineers and scientists in mind and is intended to be used in a classroom course or as a reference It is assumed that the reader has taken core EE curriculum courses or their equivalents

Cognitive and Affective Factors in Relation to Learning Mikaela Nyroos,Johan Korhonen,Riikka Mononen,2022-11-10 Both domain general e g working memory executive functions and domain specific e g number processing phonological processing cognitive factors have been found to predict learning in different age groups Likewise research has shown that various affective factors such as different emotions e g anxiety self concept and interest need to be considered when investigating individual differences in learning However few studies have investigated both cognitive and affective factors simultaneously in relation to learning In particular there is a lack of studies investigating the interplay i e moderation and mediation between cognitive and affective factors on learning The goal of this Research Topic is to deepen our knowledge on the relations between learning and both cognitive and affective factors in different age groups We aim to provide a broad scope of emerging areas in research on cognitive and affective factors especially related to academic learning e g mathematics reading and other school subjects Studies focusing simultaneously looking at the interplay of these constructs as well as longitudinally are of great interest Further we are interested in innovative study designs and recent advances in methodology in this field To promote quality education for all and equity in education cognitive and affective factors related to aspects of learning ranging from pre school to tertiary provision and inclusion of individuals with special educational needs are of interest

Unveiling the Magic of Words: A Report on "**May 2013 Math Sl**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**May 2013 Math Sl**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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May 2013 Math Sl Introduction

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