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]

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Kathleen Armour

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Introducing the IB 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 **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 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 The Search for Justice Kumari Jayawardena,Kishali Pinto-Jayawardena,2016-11-21 The Sexual Violence and Impunity in South Asia research project coordinated by Zubaan and supported by the International Development Research Centre brings together for the first time in the region a vast body of knowledge on this important yet silenced subject Six country volumes one each on Bangladesh Nepal Pakistan Sri Lanka and two on India as well as two standalone volumes comprising over fifty research papers and two book length studies detail the histories of sexual violence and look at the systemic institutional societal individual and community structures that work together to perpetuate impunity for perpetrators The essays in this volume examine history and contemporary politics to understand the root causes of sexual violence in Sri Lanka They look at the polarization created around ethnic and linguistic

identities during the three decades of ethnic conflict but also scrutinize the routine violence of communities towards their own women in daily life The authors argue that in this transitional post war phase Sri Lankan women must not only be treated as victims but as agents of change The writers highlight a hitherto unaddressed aspect of sexual violence that of the structures that enable impunity on the part of perpetrators be they security personnel and paramilitary forces members of armed rebel groups gangs local politicians and police or ordinary citizens including close family members They demonstrate how impunity for perpetrators is both a failure of the formal justice process and a product of individual community and social conditions and indeed the choices that victims and families make that promote silence over truth At the end of more than a quarter century of conflict that has left some 100 000 dead 50 000 women headed households struggling to survive as well as countless victims and survivors of sexual violence the calls for justice can no longer be ignored   Mathematics in Early Years Education Ann Montague-Smith,Tony Cotton,Alice Hansen,Alison Price,2017-10-09 This fourth edition of the bestselling Mathematics in Early Years Education provides an accessible introduction to the teaching of mathematics in the early years Covering all areas of mathematics number and counting calculation pattern shape measures and data handling it provides a wide range of practical activities and guidance on how to support young children s mathematical development There is also guidance on managing the transition to KS1 and a strong emphasis throughout on creating home links and working in partnership with parents This new edition has been fully updated to incorporate the latest research and thinking in this area and includes why mathematics is important as a way of making sense of the world how attitudes to mathematics can influence teaching and learning how children learn mathematics and what they are capable of learning how technology can support maths teaching maths phobia and the impact society has on maths teaching material on sorting matching and handling data the importance of educating about finance in today s world ideas for observation and questioning to assess children s understanding examples of planned activities suggestions for language development assessment criteria This textbook is ideal for those training to be teachers through an undergraduate or PGCE route those training for Early Years Professional Status and those studying early childhood on foundation or honours degrees as well as parents looking to explore how their young children learn mathematics This will be an essential text for any early years practitioner looking to make mathematics interesting exciting and engaging in their classroom   **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   *Data Fusion Mathematics* Jitendra R. Raol,2015-08-27 Fills the Existing Gap of Mathematics for Data FusionData fusion DF combines large amounts of information from a variety of sources and fuses this data algorithmically logically and if required intelligently using artificial intelligence AI Also known as sensor data fusion SDF the DF fusion system is an important component for use in va   **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 *Mathematical Models for Neglected Tropical Diseases: Essential Tools for Control and Elimination, Part B* ,2016-10-16 Mathematic Modelling Improving the Implementation Monitoring and Evaluation of Interventions Part B the latest volume in the Advances in Parasitology series contains comprehensive and up to date reviews in the field of mathematic modeling and its implementation within parasitology The series includes medical studies of parasites of major influence such as Plasmodium falciparum and trypanosomes along with reviews of more traditional areas such as zoology taxonomy and life history all of which shape current thinking and applications Informs and updates on all the latest developments in mathematic modeling Contains contributions from leading authorities and industry experts Latest installment in the Advances in Parasitology series

Approximate Number System and Mathematics Jingguang Li,Xinlin Zhou,Marcus Lindskog,2019-11-25 Humans process quantity information without the aid of language or symbols to guide a variety of everyday life decisions The cognitive system that supports this intuitive skill is often referred to as the approximate number system ANS It has been argued that the ANS serves as the foundation of the formal symbolic number system mathematics Abundant empirical evidence is supportive of this view acuity of the ANS is positively correlated with symbolic math performance training of the ANS may cause improvements in symbolic math performance and the ANS and symbolic number processing may share a common neural underpinning However recently several theories and empirical data cast doubt on the role of the ANS in symbolic math processing This e book aims to advance our understanding of the underlying mechanisms of the overlap between the ANS and mathematics **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 **Overview Of Gravitational Waves, An: Theory, Sources And Detection** Gerard Auger,Eric Plagnol,2017-02-15 This book describes detection techniques used to search for and analyze gravitational waves GW It covers the whole domain of GW science starting from the theory and ending with the experimental techniques both present and future used to detect them The theoretical sections of the book address the theory of general relativity and of GW followed by the theory of GW detection The various sources of GW are described as well as the methods used to analyse them and to extract their physical parameters It includes an analysis of the consequences of GW observations in terms of astrophysics as well as a description of the different detectors that exist and that are planned for the future With the recent announcement of GW detection and the first results from LISA Pathfinder this book will allow non specialists to understand the present status of the field and the future of gravitational wave science **Parallel Processing and Applied Mathematics** Roman Wyrzykowski,Ewa Deelman,Jack Dongarra,Konrad Karczewski,2020-03-19 The two volume set LNCS 12043 and 12044 constitutes revised selected papers from the 13th International Conference on Parallel Processing and Applied Mathematics PPAM 2019 held in Bialystok Poland in September 2019 The 91 regular papers presented in these volumes were selected from 161 submissions For regular tracks of the conference 41 papers were selected from 89 submissions The papers were organized in topical sections named as follows Part I numerical algorithms and parallel scientific computing emerging HPC architectures performance analysis and scheduling in HPC systems environments and frameworks for parallel distributed cloud computing applications of parallel computing parallel non numerical algorithms soft computing with applications special session on GPU computing special session on parallel matrix factorizations Part II workshop on language based parallel programming models WLPP 2019 workshop on models algorithms and methodologies for hybrid parallelism in new HPC systems workshop on power and energy aspects of computations PEAC 2019 special session on tools for energy efficient computing workshop on scheduling for parallel computing SPC 2019 workshop on applied high performance numerical algorithms for PDEs minisymposium on HPC applications in physical sciences minisymposium on high performance computing interval methods workshop on complex collective systems Chapters Parallel Adaptive Cross Approximation for the Multi trace Formulation of Scattering Problems and A High Order Discontinuous Galerkin Solver with Dynamic Adaptive Mesh Refinement to Simulate Cloud Formation Processes are available open access under a Creative Commons Attribution 4 0 International License via link springer com The Creative Enterprise of Mathematics Teaching Research Bronislaw Czarnocha,William Baker,Olen Dias,Vrunda Prabhu,2016-07-28 The Creative Enterprise of Mathematics Teaching Research presents the results and

methodology of work of the teaching research community of practice of the Bronx TR Team of the Bronx It has a twofold aim of impacting both teachers of Mathematics and researchers in Mathematics Education This volume can be used by teachers of mathematics who want to use research to reflect upon and to improve their teaching craft as well as by researchers who are interested in uncovering riches of classroom learning teaching for research investigations This book represents the results of a collaboration of instructors discussing their own instruction research analyzed through a conceptual framework obtained via the synthesis of creativity research and educational learning theories based upon the work of Piaget and Vygotsky The editors see an urgent need for creative synthesis of research and teaching an example of which is presented in the book Two central themes of the book are the methodology of TR NYCity model and creativity more precisely creativity of the Aha moment formulated by Arthur Koestler 1964 in a very profound but little known theory of bisociation exposed in his work The Act of Creation Incorporation of the theory of bisociation into classroom teaching of mathematics provides the key to enable students who may struggle with mathematics to engage their own creativity become involved in their learning process and thus reach their full potential of excellence Creativity in teaching remedial mathematics is teaching gifted students how to access their own giftedness **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 **Object Detection by Stereo Vision Images** R. Arokia Priya,Anupama V. Patil,Manisha Bhende,Anuradha D. Thakare,Sanjeev Wagh,2022-09-14 OBJECT DETECTION BY STEREO VISION IMAGES Since both theoretical and practical aspects of the developments in this field of research are explored including recent state of the art technologies and research opportunities in the area of object detection this book will act as a good reference for practitioners students and researchers Current state of the art technologies have opened up new opportunities in research in the areas of object detection and recognition of digital images and videos robotics neural networks machine learning stereo vision matching algorithms soft computing customer prediction social

media analysis recommendation systems and stereo vision This book has been designed to provide directions for those interested in researching and developing intelligent applications to detect an object and estimate depth In addition to focusing on the performance of the system using high performance computing techniques a technical overview of certain tools languages libraries frameworks and APIs for developing applications is also given More specifically detection using stereo vision images video from its developmental stage up till today its possible applications and general research problems relating to it are covered Also presented are techniques and algorithms that satisfy the peculiar needs of stereo vision images along with emerging research opportunities through analysis of modern techniques being applied to intelligent systems Audience Researchers in information technology looking at robotics deep learning machine learning big data analytics neural networks pattern data mining and image and object recognition Industrial sectors include automotive electronics security and surveillance systems and online retailers **Emerging Frontiers in Nonlinear Science** Panayotis G. Kevrekidis,Jesús Cuevas-Maraver,Avadh Saxena,2020-05-29 This book explores the impact of nonlinearity on a broad range of areas including time honored fields such as biology geometry and topology but also modern ones such as quantum mechanics networks metamaterials and artificial intelligence The concept of nonlinearity is a universal feature in mathematics physics chemistry and biology and is used to characterize systems whose behavior does not amount to a superposition of simple building blocks but rather features complex and often chaotic patterns and phenomena Each chapter of the book features a synopsis that not only recaps the recent progress in each field but also charts the challenges that lie ahead This interdisciplinary book presents contributions from a diverse group of experts from various fields to provide an overview of each field s past present and future It will appeal to both beginners and seasoned researchers in nonlinear science numerous areas of physics optics quantum physics biophysics and applied mathematics ODEs PDEs dynamical systems machine learning as well as engineering *Faces of Geometry* Paola Magnaghi-Delfino,Giampiero Mele,Tullia Norando,2021-04-03 The volume reports on interdisciplinary discussions and interactions between theoretical research and practical studies on geometric structures and their applications in architecture the arts design education engineering and mathematics These related fields of research can enrich each other and renew their mutual interest in these topics through networks of shared inspiration and can ultimately enhance the quality of geometry and graphics education Particular attention is dedicated to the contributions that women have made to the scientific community and especially mathematics The book introduces engineers architects and designers interested in computer applications graphics and geometry to the latest advances in the field with a particular focus on science the arts and mathematics education **A Unique Geological Heritage: Meerschaum** Alp Baran Erkul,2022-12-27 A Unique Geological Heritage Meerschaum Alp Baran Erkul ISBN 978 605 06802 3 2 Kitab n t m geliri novasyon in E itim Vakf na ba lanmaktad r Elde edilen gelir ile entelekt el seviyesi y ksek gen lerin e itimi ve start up lar desteklenmektedir Ayr ca e itlik ve kapsay c l k g zetilmektedir 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

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