

**Subject - Math AA(Standard Level)**  
**Topic - Number and Algebra**  
**Year - May 2021 - Nov 2022**  
**Paper -1**  
**Answers**

**Question 1**

- (a) attempting to use the change of base rule

*M1*

$$\log_3(\cos 2x + 2) = \frac{\log_4(\cos 2x + 2)}{\log_4 9}$$

*A1*

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

*A1*

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

*AG*

*[3 marks]*

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

*M1*

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

*A1*

$$4 \sin^2 x = \cos 2x + 2 \quad (\text{or equivalent})$$

*(M1)*

$$\text{use of } \cos 2x = 1 - 2 \sin^2 x$$

$$6 \sin^2 x = 3$$

$$\sin x = \left( \pm \right) \frac{1}{\sqrt{2}}$$

*A1*

$$x = \frac{\pi}{4}$$

*A1*

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

*[5 marks]*

**Total [8 marks]**

# May 2013 Math Sl Paper 1

**Dolores Perin**



## May 2013 Math SI Paper 1:

Issues in Algebra, Geometry, and Topology: 2013 Edition, 2013-05-01 Issues in Algebra Geometry and Topology 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Topology The editors have built Issues in Algebra Geometry and Topology 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Topology in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Algebra Geometry and Topology 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> *Issues in General and Specialized Mathematics Research: 2013 Edition*, 2013-05-01 Issues in General and Specialized Mathematics Research 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about General Mathematics The editors have built Issues in General and Specialized Mathematics Research 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about General Mathematics in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in General and Specialized Mathematics Research 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> **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'Amélioration de l'Enseignement des Mathématiques International Commission for the Study and Improvement of Mathematics Education **Teaching Secondary and Middle School Mathematics** Daniel J. Brahier, 2020-04-01 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 sixth edition has been updated and expanded with particular emphasis on the latest technology resources and standards 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 The entire text has been reorganized so that assessment takes a more central role in planning and teaching Unit 3 of 5 now addresses the use of summative and formative assessments to inform classroom teaching practices A new feature Links and Resources has been added to each of the 13 chapters While the book includes a substantial listing of citations and resources after the 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 A Quick Reference Guide has been added to the front of the book to assist the reader in identifying the most useful chapter features by topic A significant revision to Chapter 13 now includes discussions of common teaching assessments used for field experiences and licensure as well as a discussion of practical suggestions for success in methods and student teaching experiences Chapter 9 on the practical use of classroom technology has been revised to reflect the latest tools available to classroom teachers including apps that can be run on handheld personal devices An updated Instructor's Manual features a test bank sample classroom activities Powerpoint slides chapter summaries and learning outcomes for each chapter and can be accessed by instructors online at [www.routledge.com](http://www.routledge.com) 9780367146511

*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

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*How the Brain Learns Mathematics* David A. Sousa, 2014-11-13 To reach all your math students use your brain and theirs too This updated bestseller takes readers to the next level with new brain friendly strategies backed by the latest research and even more ways to seamlessly incorporate what you learn about your students developing minds into your math classroom Discover the cognitive mechanisms for learning math explore factors that contribute to learning difficulties and follow a four step teaching model that relates classroom experience to real world applications Features include New strategies for motivating adolescents Integration of the arts into mathematics instruction New information on how technology affects attention and memory Expanded sections on number sense and ELL instruction More than 160 new references

**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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*Future of STEM education: Multiple perspectives from researchers* Subramaniam Ramanathan,Ida Ah Chee Mok,2023-03-28

**Young Children's Foreign Language Anxiety** Jieun Kiaer,Jessica M. Morgan-Brown,Naya Choi,2021-06-03 This book investigates the effects of foreign language anxiety FLA on young language learners using as a basis for observation the early childhood English education industry in South Korea that has arisen as a result of English fever The authors combine existing knowledge on the topic of FLA together with original research on FLA in young language learners to fill a large gap in knowledge with regards to this understudied and distinct group of learners The book includes suggestions for alleviating FLA and encouraging foreign language enjoyment which can be implemented by parents teachers and policymakers and which will ultimately facilitate more effective language learning and support children s psychosocial wellbeing

*Innumeracy in the Wild* Ellen Peters,2020 Innumeracy in the Wild presents the logic rules and habits that highly numerate people use in decision making which the less numerate can employ to choose better This text offers a state of the art review of the now sizeable body of psychological and applied findings that demonstrate the critical importance of numeracy in our world With more than two decades of experience in the decision sciences Ellen Peters demonstrates how intervention can foster adult numeric capacity propel people to use numeric facts in decision making and empower people with lower numeracy to reason better

*Developments in Maritime Transportation and Exploitation of Sea Resources* Carlos Guedes Soares,Fernando Lopez Pena,2013-10-07 Covering recent developments in maritime transportation and exploitation of sea resources encompassing ocean and coastal areas this book is intended for academics and professionals involved in the development of marine transportation and the exploitation of sea resources

**Applying Graph Theory in Ecological Research** Mark R.T. Dale,2017-11-09 This book clearly describes the many applications of graph theory to ecological questions providing instruction and encouragement to researchers

*The Wiley Handbook of Adult Literacy* Dolores Perin,2019-10-15 Examines the widespread phenomenon of poor literacy skills in adults across the

globe This handbook presents a wide range of research on adults who have low literacy skills It looks at the cognitive affective and motivational factors underlying adult literacy adult literacy in different countries and the educational approaches being taken to help improve adults literacy skills It includes not only adults enrolled in adult literacy programs but postsecondary students with low literacy skills some of whom have reading disabilities The first section of The Wiley Handbook of Adult Literacy covers issues such as phonological abilities in adults who have not yet learned to read gender differences in the reading motivation of adults with low literacy skills literacy skills academic self efficacy and participation in prison education and more Chapters on adult literacy social change and sociocultural factors in South Asia and in Ghana literacy numeracy and self rated health among U S adults adult literacy programs in Southeastern Europe and Turkey and a review of family and workplace literacy programs are among the topics featured in the second section The last part examines how to teach reading and writing to adults with low skills adults transition from secondary to postsecondary education implications for policy research and practice in the adult education field educational technologies that support reading comprehension and more Looks at the cognitive processing challenges associated with low literacy in adults Features contributions from a global team of experts in the field Offers writing strategy instruction for low skilled postsecondary students The Wiley Handbook of Adult Literacy is an excellent book for academic researchers teacher educators professional developers program designers and graduate students It s also beneficial to curriculum developers adult basic education and developmental education instructors and program administrators as well as clinicians and counselors who provide services to adults with reading disabilities [Advances and Applications of DSMT for Information Fusion. Collected Works, Volume 5](#)

Florentin Smarandache, Jean Dezert, Albena Tchamova, This fth volume on Advances and Applications of DSMT for Information Fusion collects theoretical and applied contributions of researchers working in different elds of applications and in mathematics and is available in open access The collected contributions of this volume have either been published or presented after disseminating the fourth volume in 2015 available at fs.unm.edu/DSMT/book4.pdf or www.onera.fr/sites/default/files/2015-DSMT-Book4.pdf in international conferences seminars workshops and journals or they are new The contributions of each part of this volume are chronologically ordered First Part of this book presents some theoretical advances on DSMT dealing mainly with modified Proportional Conflict Redistribution Rules PCR of combination with degree of intersection coarsening techniques interval calculus for PCR thanks to set inversion via interval analysis SIVIA rough set classifiers canonical decomposition of dichotomous belief functions fast PCR fusion fast inter criteria analysis with PCR and improved PCR5 and PCR6 rules preserving the quasi neutrality of quasi vacuous belief assignment in the fusion of sources of evidence with their Matlab codes Because more applications of DSMT have emerged in the past years since the apparition of the fourth book of DSMT in 2015 the second part of this volume is about selected applications of DSMT mainly in building change detection object recognition quality of data association in tracking perception in robotics risk assessment for torrent

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**Internet, Phone, Mail, and Mixed-Mode Surveys** Don A. Dillman, Jolene D. Smyth, Leah Melani Christian, 2014-08-06 The classic survey design reference updated for the digital age For over two decades Dillman's classic text on survey design has aided both students and professionals in effectively planning and conducting mail telephone and more recently Internet surveys The new edition is thoroughly updated and revised and covers all aspects of survey research It features expanded coverage of mobile phones tablets and the use of do it yourself surveys and Dillman's unique Tailored Design Method is also thoroughly explained This invaluable resource is crucial for any researcher seeking to increase response rates and obtain high quality feedback from survey questions Consistent with current emphasis on the visual and aural the new edition is complemented by copious examples within the text and accompanying website This heavily revised Fourth Edition includes Strategies and tactics for determining the needs of a given survey how to design it and how to effectively administer it How and when to use mail telephone and Internet surveys to maximum advantage Proven techniques to increase response rates Guidance on how to obtain high quality feedback from mail electronic and other self administered surveys Direction on how to construct effective questionnaires including considerations of layout The effects of sponsorship on the response rates of surveys Use of capabilities provided by newly mass used media interactivity presentation of aural and visual stimuli The Fourth Edition reintroduces the telephone including coordinating land and mobile Grounded in the best research the book offers practical how to guidelines and detailed examples for practitioners and students alike

**The Mathematics of Shuffling Cards** Persi Diaconis, Jason Fulman, 2023-03-20 This book gives a lively development of the mathematics needed to answer the question How many times should a deck of cards be shuffled to mix it up The shuffles studied are the usual ones that real people use riffle overhand and smooshing cards around on the table The mathematics ranges from probability Markov chains to combinatorics symmetric function theory to algebra Hopf algebras There are applications to magic tricks and gambling along with a careful



comparison of the mathematics to the results of real people shuffling real cards The book explores links between shuffling and higher mathematics Lie theory algebraic topology the geometry of hyperplane arrangements stochastic calculus number theory and more It offers a useful springboard for seeing how probability theory is applied and leads to many corners of advanced mathematics The book can serve as a text for an upper division course in mathematics statistics or computer science departments and will be appreciated by graduate students and researchers in mathematics statistics and computer science as well as magicians and people with a strong background in mathematics who are interested in games that use playing cards

**Functional and Logic Programming** John P. Gallagher, Martin Sulzmann, 2018-05-01 This book constitutes the proceedings of the 14th International Symposium on Functional and Logic Programming FLOPS 2018 held in Nagoya Japan in May 2018 The 17 papers presented in this volume were carefully reviewed and selected from 41 submissions They cover all aspects of the design semantics theory applications implementations and teaching of declarative programming focusing on topics such as functional logic programming re writing systems formal methods and model checking program transformations and program refinements developing programs with the help of theorem provers or SAT SMT solvers language design and implementation issues

**Integer Programming and Related Areas** C. Kastning, 2013-11-11 Integer Programming is one of the most fascinating and difficult areas in the field of Mathematical Optimization Due to this fact notable research contributions to Integer Programming have been made in very different branches of mathematics and its applications Since these publications are scattered over many journals proceedings volumes monographs and working papers a comprehensive bibliography of all these sources is a helpful tool even for specialists in this field I initiated this compilation of literature in 1970 at the Institut für Konometrie und Operations Research University of Bonn Since then many collaborators have contributed to and worked on it Among them Dipl Math Claus Kastning has done the bulk of the work With great perseverance and diligence he has gathered all the material and checked it with the original sources The main aim was to incorporate rare and not easily accessible sources like Russian journals preprints or unpublished papers Without the invaluable and dedicated engagement of Claus Kastning the bibliography would never have reached this final version For this reason he must be considered its responsible editor As with any other collection this literature list has a subjective viewpoint and may be in some sense incomplete We have however tried to be as complete as possible The bibliography contains 4704 different publications by 6767 authors which were classified by 11839 descriptor entries

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