

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

$$\log_3(\cos 2x + 2) = \frac{\log_2(\cos 2x + 2)}{\log_2 9}$$

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*)

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

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

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

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

Khaled Elleithy, Tarek Sobh



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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 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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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

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Applied Probability and Stochastic Processes V. C. Joshua, S. R. S. Varadhan, Vladimir M. Vishnevsky, 2020-08-29 This book gathers selected papers presented at the International Conference on Advances in Applied Probability and Stochastic Processes held at CMS College Kerala India on 7-10 January 2019 It showcases high quality research conducted in the field of applied probability and stochastic processes by focusing on techniques for the modelling and analysis of systems evolving with time Further it discusses the applications of stochastic modelling in queuing theory reliability inventory financial mathematics operations research and more This book is intended for a broad audience ranging from researchers interested in applied probability stochastic modelling with reference to queuing theory inventory and reliability to those working in industries such as communication and computer networks distributed information systems next generation communication systems intelligent transportation networks and financial markets

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. 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 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 is 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.

New Trends in Networking, Computing, E-learning, Systems Sciences, and Engineering Khaled Elleithy, Tarek

Sobh,2014-11-27 This book includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Computer Science Informatics and Systems Sciences and Engineering It includes selected papers from the conference proceedings of the Ninth International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2013 Coverage includes topics in Industrial Electronics Technology Includes chapters in the most advanced areas of Computing Informatics Systems Sciences and Engineering Accessible to a wide range of readership including professors researchers practitioners and students

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

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