

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)

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

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

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

A1

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

A1

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

[5 marks]

Total [8 marks]

Math SI 2013 Paper

Boris S. Kerner



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The Mathematical Brain Across the Lifespan ,2016-06-20 The Mathematical Brain Across the Lifespan is the latest volume in the Progress in Brain Research series that focuses on new trends and developments This established international series examines major areas of basic and clinical research within the neurosciences as well as popular and emerging subfields Provides a comprehensive review of the most recent progress in the mathematical brain across the lifespan Explores new trends and developments in the field Enhances the literature of neuroscience by further expanding the established ongoing international series Progress in Brain Research

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

Understanding Emotions in Mathematical Thinking and Learning Ulises Xolocotzin,2017-05-12 Emotions play a critical role in mathematical cognition and learning Understanding Emotions in Mathematical Thinking and Learning offers a multidisciplinary approach to the role of emotions in numerical cognition mathematics education learning sciences and affective sciences It addresses ways in which emotions relate to cognitive processes involved in learning and doing mathematics including processing of numerical and physical magnitudes e g time and space performance in arithmetic and algebra problem solving and reasoning attitudes learning technologies and mathematics achievement Additionally it covers social and affective issues such as identity and attitudes toward mathematics Covers methodologies in studying emotion in mathematical knowledge Reflects the diverse and innovative nature of the methodological approaches and theoretical frameworks proposed by current investigations of emotions and mathematical cognition Includes perspectives from cognitive experimental psychology neuroscience and from sociocultural semiotic and discursive approaches Explores the role of anxiety in mathematical learning Synthesizes unifies

the work of multiple sub disciplines in one place *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 Mathematics Anxiety Irene C. Mammarella, Sara Caviola, Ann Dowker, 2019-02-18 Feelings of apprehension and fear brought on by mathematical performance can affect correct mathematical application and can influence the achievement and future paths of individuals affected by it In recent years mathematics anxiety has become a subject of increasing interest both in educational and clinical settings This ground breaking collection presents theoretical educational and psychophysiological perspectives on the widespread phenomenon of mathematics anxiety Featuring contributions from leading international researchers Mathematics Anxiety challenges preconceptions and clarifies several crucial areas of research such as the distinction between mathematics anxiety from other forms of anxiety i e general or test anxiety the ways in which mathematics anxiety has been assessed e g throughout self report questionnaires or psychophysiological measures the need to clarify the direction of the relationship between math anxiety and mathematics achievement which causes which Offering a revaluation of the negative connotations usually associated with mathematics anxiety and prompting avenues for future research this book will be invaluable to academics and students in the field psychological and educational sciences as well as teachers working with students who are struggling with mathematics anxiety **Educational Psychology** Tony Cline, Anthea Gulliford, Susan Birch, 2015-03-24 Educational Psychology Second Edition 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 the new edition is written to encourage students to integrate their understanding of core psychological disciplines as well as to consider what evidence based practice really means Organized into two broad sections related to learning and behaviour 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 It is the ideal book for any student wishing to engage with this important and evolving field of study

Teaching Elementary Mathematics to Struggling Learners Bradley S. Witzel, Mary E. Little, 2016-01-24 Packed with effective instructional strategies this book explores why certain K 5 students struggle with math and provides a framework for helping these learners succeed The authors present empirically validated practices for supporting students with disabilities and others experiencing difficulties in specific areas of math including problem solving early numeracy whole number operations fractions geometry and algebra Concrete examples easy to implement lesson planning ideas and connections to state standards in particular the Common Core standards enhance the book s utility Also provided is invaluable guidance on planning and delivering multi tiered instruction and intervention

Contributing Factors to TIMSS 2011 Eighth Graders' Science Achievement: A Comparison between Malaysia and Singapore Lay Yoon Fah, Ng Khar Thoe, Suma Parahakaran, 2020-05-03 Trends in International Mathematics and Science Study TIMSS is one of the projects of the International Association for the Evaluation of Educational Achievement IEA located at Amsterdam The Netherlands and Hamburg Germany IEA is an independent cooperative of national educational research institutions and governmental research agencies dedicated to improving education TIMSS is conducted regularly for every four years to assess students achievement in science and mathematics at both the fourth and eighth grades The project is dedicated to providing participating countries with information to improve teaching and learning in science and mathematics This book is written especially for the interest of undergraduate students postgraduate students and educators of science education who wish to know more about the contributing factors to Grade 8 students science achievement in TIMSS This book is also resourceful for individuals who are involved directly or indirectly in the administration and implementation of TIMSS at the national state district and school levels This book consists of seven chapters The first chapter gives a brief introduction to TIMSS which includes the TIMSS curriculum model and TIMSS science assessment frameworks The subsequent chapters compare the contribution of various factors i e home environment support school resources school climate teacher preparation and classroom instructions on Malaysian and Singaporean Grade 8 students science achievement in TIMSS 2011 Last but not least recommendations on ways to improve Malaysian Grade 8 students science achievement in the forthcoming TIMSS are suggested based on the experiences of the Singaporean education system

How I Wish I Had Taught Maths: Reflections on research, conversations with experts, and 12

years of mistakes Craig Barton, 2018-01-01 I genuinely believe I have never taught mathematics better and my students have never learned more I just wish I had known all of this twelve years ago Craig Barton is one of the UK's most respected teachers of mathematics In his remarkable new book he explains how he has delved into the world of academic research and emerged with a range of simple practical effective strategies that anyone can employ to save time and energy and have a positive impact on the long term learning and enjoyment of students Craig presents the findings of over 100 books and research articles from the fields of Cognitive Science Memory Psychology and Behavioural Economics together with the conversations he has had with world renowned educational experts on his Mr Barton Maths Podcast and subsequent experiments with my students and colleagues

Inclusive Mathematics Education David Kollosche, Renato Marcone, Michel Knigge, Miriam Godoy Penteado, Ole Skovsmose, 2019-03-25 The book provides an overview of state of the art research from Brazil and Germany in the field of inclusive mathematics education Originated from a research cooperation between two countries where inclusive education in mathematics has been a major challenge this volume seeks to make recent research findings available to the international community of mathematics teachers and researchers In the book the authors cover a wide variety of special needs that learners of mathematics may have in inclusive settings They present theoretical frameworks and methodological approaches for research and practice

Algebraic and Analytic Aspects of Integrable Systems and Painlevé Equations Anton Dzhamay, Kenichi Maruno, Christopher M. Ormerod, 2015-10-28 This volume contains the proceedings of the AMS Special Session on Algebraic and Analytic Aspects of Integrable Systems and Painlevé Equations held on January 18 2014 at the Joint Mathematics Meetings in Baltimore MD The theory of integrable systems has been at the forefront of some of the most important developments in mathematical physics in the last 50 years The techniques to study such systems have solid foundations in algebraic geometry differential geometry and group representation theory Many important special solutions of continuous and discrete integrable systems can be written in terms of special functions such as hypergeometric and basic hypergeometric functions The analytic tools developed to study integrable systems have numerous applications in random matrix theory statistical mechanics and quantum gravity One of the most exciting recent developments has been the emergence of good and interesting discrete and quantum analogues of classical integrable differential equations such as the Painlevé equations and soliton equations Many algebraic and analytic ideas developed in the continuous case generalize in a beautifully natural manner to discrete integrable systems The editors have sought to bring together a collection of expository and research articles that represent a good cross section of ideas and methods in these active areas of research within integrable systems and their applications

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

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

Combinatorics and Finite Fields Kai-Uwe Schmidt,Arne Winterhof,2019-07-08 Combinatorics and finite fields are of great importance in modern applications such as in the analysis of algorithms in information and communication theory and in signal processing and coding theory This book contains survey articles on topics such as difference sets polynomials and pseudorandomness

Transformational Change Efforts: Student Engagement in Mathematics through an

Institutional Network for Active Learning Wendy M. Smith, Matthew Voigt, April Ström, David C. Webb, W. Gary Martin, 2021-05-05 The purpose of this handbook is to help launch institutional transformations in mathematics departments to improve student success We report findings from the Student Engagement in Mathematics through an Institutional Network for Active Learning SEMINAL study SEMINAL s purpose is to help change agents those looking to or currently attempting to enact change within mathematics departments and beyond trying to reform the instruction of their lower division mathematics courses in order to promote high achievement for all students SEMINAL specifically studies the change mechanisms that allow postsecondary institutions to incorporate and sustain active learning in Precalculus to Calculus 2 learning environments Out of the approximately 2.5 million students enrolled in collegiate mathematics courses each year over 90% are enrolled in Precalculus to Calculus 2 courses Forty four percent of mathematics departments think active learning mathematics strategies are important for Precalculus to Calculus 2 courses but only 15 percent state that they are very successful at implementing them Therefore insights into the following research question will help with institutional transformations What conditions strategies interventions and actions at the departmental and classroom levels contribute to the initiation implementation and institutional sustainability of active learning in the undergraduate calculus sequence Precalculus to Calculus 2 across varied institutions

Breakdown in Traffic Networks Boris S. Kerner, 2017-05-26 This book offers a detailed investigation of breakdowns in traffic and transportation networks It shows empirically that transitions from free flow to so called synchronized flow initiated by local disturbances at network bottlenecks display a nucleation type behavior while small disturbances in free flow decay larger ones grow further and lead to breakdowns at the bottlenecks Further it discusses in detail the significance of this nucleation effect for traffic and transportation theories and the consequences this has for future automatic driving traffic control dynamic traffic assignment and optimization in traffic and transportation networks Starting from a large volume of field traffic data collected from various sources obtained solely through measurements in real world traffic the author develops his insights with an emphasis less on reviewing existing methodologies models and theories and more on providing a detailed analysis of empirical traffic data and drawing consequences regarding the minimum requirements for any traffic and transportation theories to be valid The book proves the empirical nucleation nature of traffic breakdown in networks discusses the origin of the failure of classical traffic and transportation theories shows that the three phase theory is incommensurable with the classical traffic theories and explains why current state of the art dynamic traffic assignments tend to provoke heavy traffic congestion making it a valuable reference resource for a wide audience of scientists and postgraduate students interested in the fundamental understanding of empirical traffic phenomena and related data driven phenomenology as well as for practitioners working in the fields of traffic and transportation engineering

The Massachusetts General Hospital Guide to Learning Disabilities H. Kent Wilson, Ellen B. Braaten, 2018-12-13 This book connects experts in the field of child assessment to provide child psychiatrists

with knowledge in evaluation and educational programming The book provides a review of the latest science behind common learning disabilities including etiology and guidelines for assessment diagnosis neurodevelopmental disorders like learning disabilities ADHD psychiatric disorders in childhood such as mood and anxiety disorders and impact learning and development protocols The Massachusetts General Hospital Guide to Learning Disabilities evaluates the interventions that are effective in addressing these learning challenges in the context of multiple factors in a way that no other current text does Special topics such as special education law and managing the needs of transitional age youth allow psychiatrists to support their patients and their families as they navigate the system By offering a better understanding the learning needs of their patients this text gives readers the tools to consult with families and educators regarding how to address the learning needs of their patients at school and in other settings The Massachusetts General Hospital Guide to Learning Disabilities is a vital tool for child psychiatrists students assessment professionals and other professionals studying or working with children suffering from learning disabilities

Shuffle Approach Towards Quantum Affine and Toroidal Algebras Alexander Tsymbaliuk, 2023-08-07 This book is based on the author's mini course delivered at Tokyo University of Marine Science and Technology in March 2019 The shuffle approach to Drinfeld Jimbo quantum groups of finite type embedding their positive subalgebras into q deformed shuffle algebras was first developed independently in the 1990s by J Green M Rosso and P Schauenburg Motivated by similar ideas B Feigin and A Odesskii proposed a shuffle approach to elliptic quantum groups around the same time The shuffle algebras in the present book can be viewed as trigonometric degenerations of the Feigin Odesskii elliptic shuffle algebras They provide combinatorial models for the positive subalgebras of quantum affine algebras in their loop realizations These algebras appeared first in that context in the work of B Enriquez Over the last decade the shuffle approach has been applied to various problems in combinatorics combinatorics of Macdonald polynomials and Dyck paths generalization to wreath Macdonald polynomials and operators geometric representation theory especially the study of quantum algebras actions on the equivariant K theories of various moduli spaces such as affine Laumon spaces Nakajima quiver varieties nested Hilbert schemes and mathematical physics the Bethe ansatz quantum Q systems and quantized Coulomb branches of quiver gauge theories to name just a few While this area is still under active investigation the present book focuses on quantum affine toroidal algebras of type A and their shuffle realization which have already illustrated a broad spectrum of techniques The basic results and structures discussed in the book are of crucial importance for studying intrinsic properties of quantum affinized algebras and are instrumental to the aforementioned applications

The Mathematics Education for the Future Project. Proceedings of the 13th International Conference Mathematics Education in a Connected World Alan Rogerson, 2015-07-01 This volume contains the papers presented at the

International Conference on Mathematics Education in a Connected World held from September 16-21 2015 in Catania Italy The Conference was organized by The Mathematics Education for the Future Project an international educational project

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