

**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*

$$= \frac{1}{2} \log_2(\cos 2x + 2)$$

*A1*

$$= \log_2 \sqrt{\cos 2x + 2}$$

*AG*

[3 marks]

- (b)  $\log_2(2 \sin x) = \log_2 \sqrt{\cos 2x + 2}$

*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 2010 Paper 1 Math Sl Answers

**Olivier Ethgen, Ulf Staginnus**



## May 2010 Paper 1 Math SI Answers:

**Differential and Difference Equations with Applications** Sandra Pinelas, Zuzana Došlá, Ondřej Došlý, Peter E. Kloeden, 2016-09-02 Aimed at the community of mathematicians working on ordinary and partial differential equations difference equations and functional equations this book contains selected papers based on the presentations at the International Conference on Differential Difference Equations and Applications ICDDEA 2015 dedicated to the memory of Professor Georg Sell Contributions include new trends in the field of differential and difference equations applications of differential and difference equations as well as high level survey results The main aim of this recurring conference series is to promote encourage cooperate and bring together researchers in the fields of differential difference equations All areas of differential and difference equations are represented with special emphasis on applications *Issues in Logic, Operations, and Computational Mathematics and Geometry: 2011 Edition*, 2012-01-09 Issues in Logic Operations and Computational Mathematics and Geometry 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Logic Operations and Computational Mathematics and Geometry The editors have built Issues in Logic Operations and Computational Mathematics and Geometry 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Logic Operations and Computational Mathematics and Geometry in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Logic Operations and Computational Mathematics and Geometry 2011 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 with Use of Airfield LED Light Fixtures John D. Bullough, 2012 TRB s Airport Cooperative Research Program ACRP Synthesis 35 Issues With Use of Airfield LED Light Fixtures documents the performance of light emitting diode LED airfield lighting systems publisher s description *Large-Scale Studies in Mathematics Education* James A. Middleton, Jinfa Cai, Stephen Hwang, 2015-05-05 In recent years funding agencies like the Institute of Educational Sciences and the National Science Foundation have increasingly emphasized large scale studies with experimental and quasi experimental designs looking for objective truths Educational researchers have recently begun to use large scale studies to understand what really works from developing interventions to validation studies of the intervention and then to efficacy studies and the final scale up for large implementation of an intervention Moreover modeling student learning developmentally taking into account cohort factors issues of socioeconomics local political context and the presence or absence of interventions requires the use of large data sets wherein these variables can be sampled adequately and inferences made Inroads in quantitative methods have been made in the psychometric and sociometric literatures but these

methods are not yet common knowledge in the mathematics education community In fact currently there is no volume devoted to discussion of issues related to large scale studies and to report findings from them This volume is unique as it directly discusses methodological issue in large scale studies and reports empirical data from large scale studies

Elementary Theory of Groups and Group Rings, and Related Topics Paul Baginski,Benjamin Fine,Anja Moldenhauer,Gerhard Rosenberger,Vladimir Shpilrain,2020-02-10 This proceedings volume documents the contributions presented at the conference held at Fairfield University and at the Graduate Center CUNY in 2018 celebrating the New York Group Theory Seminar in memoriam Gilbert Baumslag and to honor Benjamin Fine and Anthony Gaglione It includes several expert contributions by leading figures in the group theory community and provides a valuable source of information on recent research developments

**Handbook of Special Education** James M. Kauffman,Daniel P. Hallahan,Paige Cullen Pullen,2017-05-25 The purpose of the Handbook of Special Education is to help profile and bring greater clarity to the already sprawling and continuously expanding field of special education To ensure consistency across the volume chapter authors review and integrate existing research identify strengths and weaknesses note gaps in the literature and discuss implications for practice and future research The second edition has been fully updated throughout to take into account recent changes to federal laws as well as the most current academic research and an entirely new section has been added on research methods in special education

**PISA 2012 Assessment and Analytical Framework Mathematics, Reading, Science, Problem Solving and Financial Literacy** OECD,2013-02-11 This book presents the conceptual framework underlying the fifth cycle of PISA which covers reading science and this year s focus mathematical literacy along with problem solving and financial literacy

Analytic Projective Geometry John Bamberg,Tim Penttila,2023-10-19 Projective geometry is the geometry of vision and this book introduces students to this beautiful subject from an analytic perspective emphasising its close relationship with linear algebra and the central role of symmetry Starting with elementary and familiar geometry over real numbers readers will soon build upon that knowledge via geometric pathways and journey on to deep and interesting corners of the subject Through a projective approach to geometry readers will discover connections between seemingly distant and ancient results in Euclidean geometry By mixing recent results from the past 100 years with the history of the field this text is one of the most comprehensive surveys of the subject and an invaluable reference for undergraduate and beginning graduate students learning classic geometry as well as young researchers in computer graphics Students will also appreciate the worked examples and diagrams throughout

**Issues in Algebra, Geometry, and Topology: 2012 Edition** ,2013-01-10 Issues in Algebra Geometry and Topology 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Algebra The editors have built Issues in Algebra Geometry and Topology 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Algebra in this eBook to be deeper than what you can access anywhere else as well as consistently reliable

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**Anxiety Disorders in Childhood and Adolescence: Psychopathology, Assessment, and Treatment** Mireia Orgilés, Jose P. Espada, José Manuel García-Fernández, Cecilia A. Essau, Francisco Javier Méndez, 2022-07-14

Cracking the code UNESCO, 2017-09-04 This report aims to crack the code by deciphering the factors that hinder and facilitate girls and women s participation achievement and continuation in science technology engineering and mathematics STEM education and in particular what the education sector can do to promote girls and women s interest in and engagement with STEM education and ultimately STEM careers

Proceedings of IAC-MEM 2015 collective of authors, 2015-07-05

**The Future of Health Economics** Olivier Ethgen, Ulf Staginnus, 2016-10-14 The pharmaceutical industry faces a well documented perfect storm on the one hand the patent cliff the lack of new blockbusters and on the other economic pressure on pricing from markets with growing expectations and shrinking budgets In the face of such pressure traditional health economics models no longer seem appropriate and yet what do we have to replace them The growing focus on value and cost effectiveness are evidence of new emerging thinking although even here with the shift from medicine as cure to medicine as palliative as a treatment for chronic illness and with the growing emphasis on preventative approaches the landscape is complex and challenging The Future of Health Economics offers a window into some of the most influential emerging issues in pharmacoeconomics issues such as risk sharing and alternative pricing models or the potential impact of radical new approaches such as personalized medicine as well as exploring the changing role of government and regulators Ulf Staginnus and Olivier Ethgen themselves two of the most well regarded practitioners in this field have brought together some leading edge thinkers from industry and academia around the world to provide the industry policy makers regulators health practitioners and academics with the raw material for their future scenarios

**Canadian Journal of Physics** , 2010

Cumulated Index Medicus , 1988

**Making Education Work for the Poor** William Elliott, Melinda Lewis, 2018-07-03 Making Education Work for the Poor identifies wealth inequality as the gravest threat to the endangered American Dream Though studies have clearly illustrated that education is the primary path to upward mobility today educational outcomes are more directly determined by wealth than innate ability and exerted effort This accounting directly contradicts Americans understanding of the promise the American Dream is supposed to offer a level playing field and a path towards a more profitable future In this book the authors share their own stories of their journeys through the unequal U S education system One started from relative privilege and had her way to prosperity paved and her individual efforts augmented by institutional and structural support The other grew up in poverty and had to fight against currents to complete

higher education only to find his ability to profit from that degree compromised by student debt To directly counter wealth inequality and make education the great equalizer that Americans believe it to be this book calls for a revolution in financial aid policy from debt dependence to asset empowerment The book examines the evidence base supporting Children s Savings Accounts including CSAs demonstrated potential to improve children s outcomes all along the opportunity pipeline early education school achievement college access and completion and post college financial health It then outlines a policy that builds on CSAs to incorporate a sizable progressive wealth transfer This new policy Opportunity Investment Accounts is framed as the cornerstone of the wealth building agenda the nation needs in order to salvage the American Dream Written by leading CSA researchers the book includes overviews of the major children s savings legislation proposed in Congress and the key features of prominent CSA programs in operation around the country today as well as new qualitative and quantitative CSA research The book ultimately presents a critical development of the theories that together explain how universal progressive asset based education financing could make education work equitably for all American children

**Research on Educational Innovations** Arthur K. Ellis, John B. Bond, 2016-06-17 For more than twenty years Research on Educational Innovations has helped readers draw distinctions between truly innovative educational programs backed by sound empirical research and faddish policy trends of the day Using a variety of current and emerging topics as practical case studies this book offers a clear theoretical framework for program evaluation and for ways to delve into the research base behind any educational innovation From examining the theoretical basis of a proposed program to understanding the nature of the research done to document the validity of the proposed program it highlights the importance of differentiating opinions from results before implementing educational policies of any size or scope Features and Updates to the New Edition include Framework provides clarity to the research process helping both experts and novices in the field make reasonable assessments as consumers A fully revised and updated chapter on brain research provides an overview of the unfolding research applications of neuroscience to education Snapshots features offer brief summaries of highly current topics such as problem based learning flipped classrooms reflective assessment and curriculum integration *Exploring Environmental Issues* David D. Kemp, 2004-07-31 Global warming ozone depletion drought acid rain their causes are viewed as extraordinarily complex their effects are assumed catastrophic Exploring Environmental Issues provides a key to understanding our potential crisis The concise introductory text presents a review of current environmental issues using a geographical approach that stresses the interrelationships between environment and societies This user friendly volume is an essential book for students and all who are concerned with the nature of contemporary environmental issues Information is presented in a refreshing manner utilising over 170 figures and 50 photographs Global boxed case studies are used throughout to highlight and explore issues in more detail The text also contains discussion points annotated further reading and an extensive glossary **Mathematical Reviews** ,2008 *The Youth Athlete* Brian J. Krabak, M. Alison

Brooks,2023-06-22 The Youth Athlete A Practitioner s Guide to Providing Comprehensive Sports Medicine Care includes topics that provide the most comprehensive and holistic understanding of the youth athlete The foundation of the book focuses on the growth and development of the athlete from child to adolescence balancing their physical mental and emotional needs The middle sections expand on this foundation concentrating on common injuries and illnesses as well as unique topics e g Female Athlete Triad Sports Specialization Final sections emphasize specific sports e g Soccer Basketball eSports allowing the reader to synthesize the previous information to assist with return to play decision making Written from a scientific perspective and incorporating evidence based medicine into its content this book is perfect for health care practitioners of varied specialties The complete and comprehensive structure of the book will clearly distinguish it from all other textbooks on the market Covers diverse topics that reflect our current understanding of youth athletes and issues related to their care Incorporates evidence based approach highlighting the latest state of the art information and research Written by global content experts throughout the sports medicine field

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