

GAUTENG DEPARTMENT OF EDUCATION
PREPARATORY EXAMINATION

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MATHEMATICS
(First Paper)

MEMORANDUM

QUESTION 1 [14]

1.1 $x(x+2) = 0$
 $x = 0$ or $x = -2$

1A factorizing
2 CA for each answer

[3]

1.2 $x \leq -2$ or $x \geq 0$; with $x > 0$
 $\therefore x > 0$

2CA for each inequality
(-1) if "<" is used
1CA for selecting correct inequality
Full marks for answer only.

[3]

1.3
$$x = \frac{-(-3) \pm \sqrt{(-3)^2 - 4(2)(-7)}}{2(2)}$$

$$x = \frac{3 \pm \sqrt{65}}{4}$$

 $x = 2.77$ or $x = -1.27$

1A substitution into correct formula

$\frac{2}{3}$ if left in surd form

2CA for each correct answer

[3]

1.4 $1 + 2^{n-2} + 2^{n-1} + 2^n = 53$
 $2^n(2^{-2} + 2 + 1) = 52$
 $2^n = 16$
 $n = 4$

1A for $2^0 = 1$
1A for factorizing
1A for RHS
1CA
1CA

[5]

QUESTION 2 [10]

2.1.1 $(x+1)^2 - 4 = 16$
 $(x+1)^2 = 20$
 $x+1 = \pm\sqrt{20}$
 $x = \pm 2\sqrt{5} - 1$

OR

$(x+1)^2 - 4 = 16$
 $x^2 + 2x - 19 = 0$
$$x = \frac{-2 \pm \sqrt{(2)^2 - 4(-19)}}{2}$$

 $x = \pm 2\sqrt{5} - 1$

1A squaring both sides
1CA for isolating complete square
1M for taking square root
2CA for each answer

1A squaring both sides
1CA simplification
1CA substitution into correct formula

2CA for each answer

[5]

2.1.2 $k = 0$

1A

[1]

Maths Ptrial 2014

Douglas H. Clements, Julie Sarama

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

Maths Ptrial 2014:

Theory and Practice of Lesson Study in Mathematics Rongjin Huang,Akihiko Takahashi,João Pedro da Ponte,2019-05-28 This book brings together and builds on the current research efforts on adaptation conceptualization and theorization of Lesson Study LS It synthesizes and illustrates major perspectives for theorizing LS and enriches the conceptualization of LS by interpreting the activity as it is used in Japan and China from historical and cultural perspectives Presenting the practices and theories of LS with practicing teachers and prospective teachers in more than 10 countries it enables the reader to take a comparative perspective Finally the book presents and discusses studies on key aspects of LS such as lesson planning post lesson discussion guiding theories connection between research and practice and upscaling Lesson Study which has originated in Asia as a powerful effective professional development model has spread globally Although the positive effects of lesson study on teacher learning student learning and curriculum reforms have been widely documented conceptualization of and research on LS have just begun to emerge This book including 38 chapters contributed by 90 scholars from 21 countries presents a truly international collaboration on research on and adaptation of LS and significantly advances the development of knowledge about this process Chapter 15 How Variance and Invariance Can Inform Teachers Enactment of Mathematics Lessons of this book is available open access under a CC BY 4 0 license at link [springer com](https://www.springer.com) Theory and Practice of Lesson Study in Mathematics An International Perspective shows that the power of Lesson Study to transform the role of teachers in classroom research cannot be explained by a simple replication model Here we see Lesson Study being successful internationally when its key principles and practices are taken seriously and are adapted to meet local issues and challenges Max Stephens Senior research fellow at TheUniversity of Melbourne It works Instruction improves learning improves Wide scale Enduring Deep impact Lesson study has it When something works as well as lesson study does while alternative systems for improving instruction fail or only succeed on small scale or evaporate as quickly as they show promise it is time to understand how and why lesson study works This volume brings the research on lesson study together from around the world Here is what we already know and here is the way forward for research and practice informed by research It is time to wake up and pay attention to what has worked so well on wide scale for so long Phil Dara A leading author of the Common Core State Standards of Mathematics in the U S **ECGBL 2021 15th**

European Conference on Game-Based Learning Panagiotis Fotaris,Cate Grundy,Marcus Winter,2021-09-23

Effective Teaching Around the World Ridwan Maulana,Michelle Helms-Lorenz,Robert M. Klassen,2023-06-27 This open access book brings together theoretical empirical methodological and practical insights from various countries on effective teaching It particularly focuses on discussing issues pertaining to effective teaching behaviour including definitions and conceptualizations measurement differences and importance to student outcomes from international perspectives The book will draw upon the rich cultures with diverse contexts involving Asia Australia Africa America and Europe which serve

as the background setting to better understand teaching quality from a wide spectrum of educational systems and performances It shows that effective teaching behaviour can be conceptualized and operationalized uniformly using specific frameworks and measures but also addresses some limitations that should be tackled The book discusses promising ways to measure and compare effective teaching behaviour from classical test theory CTT as well as item response theory IRT perspectives It indicates that effective teaching behaviour in diverse countries follows a systematic level of complexity which provides an avenue for ongoing teacher education and teacher professional development It discusses the interrelated domains of effective teaching behaviour including contemporary trends of differentiation The book continues with examining similarities and differences in effective teaching behaviour across countries It builds on the understanding of cultural traditions across countries as profoundly reflected in the classroom processes

The Mathematical Resilience Book Sue Johnston-Wilder, Clare Lee, 2024-06-13 This book is about mathematical resilience what it is why it is important how learners can develop it and how teachers can teach in ways that help learners become mathematically resilient Teaching for mathematical resilience helps mitigate mathematics anxiety which is often hidden from view as poor behaviour avoidance and underachievement and can have long term implications especially for people s employment opportunities and career progression Written by a team of expert contributors that specialise in teaching every age of learner from primary school through to adult the book shows that everyone can progress in mathematics if they have Mathematical Resilience and sets out practical strategies to support learners in developing this important attribute Chapters cover How to measure mathematics anxiety and resilience Tools for building mathematical resilience Building a resilient mathematical learning environment The power of coaching Working with groups individuals and support staff Supporting parents and carers The world faces huge challenges that involve mathematical thinking including climate change and economic injustice This valuable text shows teachers how they can help learners to engage positively with mathematical learning and reach their full potential

Children, Adolescents, and Media Dafna Lemish, Amy Jordan, Vicky Rideout, 2018-10-11 Bringing together the leading researchers on children adolescents and the media this books offers their cutting edge big picture ideas for the future of research and scholarship in the field Individual chapters focus on topics such as the role of big data in media research digital literacy parenting in the era of mobile media media diversity in the digital age the impact of media on child development children s digital rights the implications of intelligent characters and parasocial relationships and the effectiveness of transmedia for informal education Several chapters also explore the theoretical and methodological challenges facing children s media researchers Offering new directions for research the contributors consider the implications of the changing media landscape for parents educators advocates and producers Leading scholars from North America Europe and Asia grounded in different theoretical and methodological traditions join forces to discuss the impact of growing up in a media saturated world and to stimulate thinking about the field of children and media in unexpected ways

This book was originally published as two special issues of the Journal of Children and Media The Cambridge Handbook of Applied School Psychology Frank C. Worrell, Tammy L. Hughes, Dante D. Dixon, 2020-09-17 Practice books are often simple how to lists or straightforward recipes and the practitioner still does not know why the activity is related to the outcome they seek In essence they lose how the specifics of the practice are related to the theory of change or the theory of how the problem developed in the first place This leads to practitioners potentially removing crucial elements of best practice procedures when making modifications to tackle new or different problems in an unfamiliar context By understanding the theoretical underpinnings practitioners can better plan for adjustments because they know how the outcomes they seek are informed by the theory Engagingly written and perfect for day to day use this book translates state of the art research and interdisciplinary theory into practical recommendations for those working with children and adolescents **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 Empowering Teachers to Build a Better World Fernando M. Reimers, 2020-03-23 This open access book presents a comparative study on how large scale professional development programs for teachers are designed and implemented Around the world governments and educators are recognizing the need to educate students in a broad range of higher order cognitive skills and socio emotional competencies and providing effective opportunities for teachers to develop the expertise needed to teach these skills is a crucial aspect of effective implementation of curricula which include those goals This study examines how large scale efforts to empower teachers for deeper instruction have been designed how they have been implemented and their outcomes To do so it investigates six programs from England Colombia Mexico India and the United States Though all six are intended to broaden and deepen students curricular aspirations each takes this expansion of curricular goals in a different direction The ambitious education reforms studied here explicitly focus on building teachers capacity to teach on a broader set of goals Through a discerning analysis of program documents evaluations and interviews

with senior leaders and participants in the programs the book identifies the various theories of action used in these programs examines how they were implemented and discusses what they achieved As such it offers an indispensable resource for education leaders interested in designing and implementing professional development programs for teachers that are aligned with ambitious instructional goals *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 The AMTE Handbook of Mathematics Teacher Education Babette M. Benken,2024-02-01 This new volume of The Association of Mathematics Teacher Educators AMTE Professional Book Series is a critical and timely resource that paves the way and guides the future of mathematics teacher education The collection of work in this AMTE Handbook of Mathematics Teacher Education reflects on research and what we know about how best to prepare and support both mathematics teachers and mathematics teacher educators and presents what is happening in the field Examples included in the 22 chapters highlight how we are preparing teachers across multiple contexts e g within district in content courses for the major and grade ranges K 20 and all chapters highlight relevant connections to the AMTE Standards for Preparing Teachers of Mathematics Most importantly this volume explores what we do not yet fully understand and where we are going In essence it considers how we can move the field forward The 95 contributing authors range from graduate students to those who have served as leaders in the field in multiple ways for many years Authors include K 12 teachers school administrators district leaders graduate students higher education faculty and professional development facilitators *Proceedings of the 7th Annual International Seminar on Transformative Education and Educational Leadership, AISTEEL 2022, 20 September 2022, Medan, North Sumatera Province, Indonesia* Bornok Sinaga,Rahmad Husein,Juniastel Rajagukguk,2022-12-06 Proceedings of the 7th Annual International Seminar on Transformative Education and Educational Leadership AISTEEL 2022 contains several papers that have presented at the seminar with theme Technology and Innovation in Educational Transformation This seminar was held on 20 September 2022 and organized by Postgraduate School Univesitas Negeri Medan and become a routine agenda annually The 7th AISTEEL was realized this year with various presenters lecturers researchers and students from universities both in and out of Indonesia The 7th AISTEEL presents 4 distinguished keynote speakers from Universitas Negeri Medan Indonesia Murdoch University Australia

Curtin University Perth Australia University Malaya Malaysia Monash University Australia and Tampere University of Applied Sciences Finland In addition presenters of parallel sessions come from various Government and Private Universities Institutions Academy and Schools Some of them are those who have sat and will sit in the oral defence examination The plenary speakers have been present topics covering multi disciplines They have contributed many inspiring inputs on current trending educational research topics all over the world The expectation is that all potential lecturers and students have shared their research findings for improving their teaching process and quality and leadership There are 162 papers passed through rigorous reviews process and accepted by the committee All of papers reflect the conference scopes by follow Teachers Education Model in Future Education and Research Global Issue Transformative Learning and Educational Leadership Mathematics Science and Nursing Education Social Language and Cultural Education Vocational Education and Educational Technology Economics Business and Management Education Curriculum Research and Development Innovative Educational Practices and Effective Technology in the Classroom Educational Policy and Administration Education

The First Five Years of Teaching Mathematics (FIRSTMATH) Maria Teresa Tatto, Michael C. Rodriguez, Mark D. Reckase, Wendy M. Smith, Kiril Bankov, James Pippin, 2020-04-24 This book reports on an innovative study into the first five years of mathematics teaching FIRSTMATH For the first time the study has developed a viable methodology to analyze the knowledge skills and dispositions of beginning mathematics teachers as well as instruments to explore the contexts where they work The book provides a step by step account of this exploratory proof of concept research study using a comparative and international approach and introduces readers to the challenges entailed The FIRSTMATH study promises the development of methods and strategies to make it possible for teacher educators and future teachers to examine and improve on their own practices in an important STEM area

Symmetry and Exact Solutions of Nonlinear Mathematical Physics Equations Gangwei Wang, Xiangpeng Xin, Samir A. El-Tantawy, 2024-08-13 Nonlinear problems originating from applied science that is closely related to practices contain rich and extensive content It makes the corresponding nonlinear models also complex and diverse Due to the intricacy and contingency of nonlinear problems unified mathematical methods still remain far and few between In this regard the comprehensive use of symmetric methods along with other mathematical methods becomes an effective option to solve nonlinear problems

Handbook of Social and Emotional Learning,
Learning and Teaching Early Math Douglas H. Clements, Julie Sarama, 2020-12-29 The third edition of this significant and groundbreaking book summarizes current research into how young children learn mathematics and how best to develop foundational knowledge to realize more effective teaching Using straightforward practical language early math experts Douglas Clements and Julie Sarama show how learning trajectories help teachers understand children's level of mathematical understanding and lead to better teaching By focusing on the inherent delight and curiosity behind young children's mathematical reasoning learning trajectories ultimately make teaching more joyous helping teachers understand

the varying levels of knowledge exhibited by individual students it allows them to better meet the learning needs of all children This thoroughly revised and contemporary third edition of Learning and Teaching Early Math remains the definitive research based resource to help teachers understand the learning trajectories of early mathematics and become confident credible professionals The new edition draws on numerous new research studies offers expanded international examples and includes updated illustrations throughout This new edition is closely linked with Learning and Teaching with Learning Trajectories LT 2 an open access web based tool for early childhood educators to learn about how children think and learn about mathematics Head to LearningTrajectories org for ongoing updates interactive games and practical tools that support classroom learning

The Oxford Handbook of Human Memory, Two Volume Pack Michael J. Kahana, Edmund J and Louise W Kahn Term Professor of Psychology Michael J Kahana, Anthony D. Wagner, Lucie Stern Professor of Psychology Anthony D Wagner, 2024-04-26 The Oxford Handbook of Human Memory provides an authoritative overview of the science of human memory its application to clinical disorders and its broader implications for learning and memory in real world contexts Organized into two volumes and eleven sections the Handbook integrates behavioral neural and computational evidence with current theories of how we learn and remember Overall The Oxford Handbook of Human Memory documents the current state of knowledge in the field and provides a roadmap for the next generation of memory scientists established peers and practitioners

Understanding Complex Biological Systems with Mathematics Ami Radunskaya, Rebecca Segal, Blerta Shtylla, 2018-10-24 This volume examines a variety of biological and medical problems using mathematical models to understand complex system dynamics Featured topics include autism spectrum disorder ectoparasites and allogrooming argasid ticks dynamics super fast nematocyst firing cancer immune population dynamics and the spread of disease through populations Applications are investigated with mathematical models using a variety of techniques in ordinary and partial differential equations difference equations Markov chain models Monte Carlo simulations network theory image analysis and immersed boundary method Each article offers a thorough explanation of the methodologies used and numerous tables and color illustrations to explain key results This volume is suitable for graduate students and researchers interested in current applications of mathematical models in the biosciences The research featured in this volume began among newly formed collaborative groups at the 2017 Women Advancing Mathematical Biology Workshop that took place at the Mathematical Biosciences Institute in Columbus Ohio The groups spent one intensive week working at MBI and continued their collaborations after the workshop resulting in the work presented in this volume

SAT Math Prep Kaplan Test Prep, 2017-07-04 Kaplan s SAT Math Prep provides the realistic practice key concepts and expert advice you need to master the most important math topics on the test This focused guide includes in depth content coverage and effective score raising strategies from Kaplan s top math experts to help you face the SAT with confidence Realistic Practice Effective Strategies 16 comprehensive practice sets with detailed explanations More than 250 practice questions with expert explanations Methods

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Mathematics for Healthcare

Krasimira Tsaneva-Atanasova, Vanessa Diaz-Zuccarini, 2018-09-28 In 1996 and with extraordinary prescience Panfilov and Holden had highlighted in their seminal book Computational Biology of the Heart that biology was potentially the most mathematical of all sciences Fast forward 20 years and we have seen an explosion of applications of mathematics in not only biology but healthcare that has already produced significant breakthroughs not imaginable more than 20 years ago Great strides have been made in explaining through quantitative methods the underlying mechanisms of human disease not without considerable ingenuity and effort Biological mechanisms are bewildering complex ever evolving multi scale variable difficult to fully access and understand This poses immense challenges to the computational physiology community that nevertheless has developed an impressive arsenal of tools and methods in a vertiginous race to combat disease with the tall order of improving human healthcare Mechanistic models are now contending with the advent of machine learning in healthcare and the hope is that both approaches will be used synergistically since the complexity of human pathophysiology and the difficulty of acquiring human datasets will require both deductive and inductive methods This Research Topic presents work that is currently at the frontier in computational physiology with a striking range of applications from diabetes to graft failure and using a multitude of mathematical tools This collection of articles represents a snapshot in a field that is moving a dizzying speed bringing understanding of fundamental mechanism and solutions to healthcare problems experienced by healthcare systems all over the world

Knowledge, Policy and Practice in Teacher Education

Maria Teresa Tatto, Ian Menter, 2019-02-21 Knowledge Policy and Practice in Teacher Education reviews the evolution of education policy on initial teacher education as an indicator of the knowledge that is considered important for nation building It also looks at research on approaches and structures to initial teacher learning as an indication of the intellectual and moral direction to which schooling must aspire Contributors look at these dynamics across a range of societies including Australia the Czech Republic England Finland Hong Kong Israel Italy Japan South Korea Mexico Russia and the USA Using a review of the literature approach within a comparative framework the book seeks to answer the following questions for each country What has been the evolution of different approaches to learning to teach in each setting and what factors have influenced change over the years What are the underlying theories that characterize past and current thinking about the knowledge skills and dispositions needed by teachers and what evidence is used to support these theories What does a review on the state of the

knowledge about teacher education over the past 30 years reveal about the evolution of the research and knowledge traditions that have supported current and past innovations in teacher education Maria Teresa Tatto and Ian Menter explore international variability in different conceptions of knowledge in the context of learning to teach and explore the way in which national and international influences interact in the developing trajectories of teacher education policy and practice considering what knowledge is considered important for teachers to have

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