

16. Suman and Nikita are studying about application of derivative and integration in a class. They ask each other the quiz questions as given below. On the basis of these questions answer the following.
- (a) $f'(x)$ and $g'(x)$ are derivatives of the functions $f(x)$ and $g(x)$. What is the expression equal to $\lim_{x \rightarrow a} \frac{f(x)}{g(x)}$ according to L'Hospital's rule for form ∞/∞ . 1
- (b) State Rolle's Theorem. 1
- (c) What is the expression equal to $\int \frac{1}{x^2 + a^2} dx$? 1
- (d) What does 'C' represent in the expression $\int \frac{dx}{3 \sin x + 4 \cos x} = \frac{1}{5} \ln \left| \tan \left(\frac{x}{2} + \frac{1}{2} \tan^{-1} \frac{4}{3} \right) \right| + C$? 1
- (e) Write a difference between derivative and antiderivative? 1
17. Integrate $\int \frac{1}{x^4 - 1} dx$ using the concept of partial fraction. Also give an example of proper rational fraction and improper rational fraction. 3 + 2
18. Use simplex method and maximize: $Z(x, y) = x + y$ subject to constraints $2x + 3y \geq 22$, $2x + y \geq 14$, $x \geq 0, y \geq 0$. 5
19. Write any one difference between like parallel forces and unlike parallel forces. A heavy uniform beam whose mass is 60 kg is suspended in a horizontal position by two vertical strings each of which can sustain a tension of 52.5 kg wt. How far from the centre of the beam must a body of mass 30 kg placed so that one of the strings may just break? 1 + 4
- OR
- If the demand function $P = 85 - 4Q - Q^2$, find the consumer's surplus at demand 4 units and price 64 units. Also make a revenue function for demand equation $P = 20 + 5Q - Q^2$. Obtain the standard quadratic equation for marginal revenue. Q represents the number of units demands and P represent the price. 2 + 1 + 1 + 1
- Group 'C'** [8 × 3 = 24]
20. A mixture is to be made of three foods, A, B and C which contain nutrients P, Q, R as shown in the table below. The quantity of P, Q, R is 45 units, 54 units and 45 units respectively.
- | Food | Units of nutrients per kg of the foods | | |
|------|--|---|---|
| | P | Q | R |
| A | 2 | 2 | 4 |
| B | 3 | 5 | 0 |
| C | 4 | 3 | 5 |
- (a) Express the information in equation form. 1
- (b) Solve the equations using matrix. 5
- (c) If the cost per kg of the foods A, B, C are Rs. 300, Rs. 240 and Rs. 180 respectively, find the total cost of the mixture by matrix method. 2
21. A line makes an angle $\alpha, \beta, \gamma, \delta$ with the four diagonals of a cube kept in a dining room.
- (a) Find the direction ratios of any two diagonals of the cube and express the diagonals in vector form 3
- (b) Find the angle between the any two diagonals of the cube. 2
- (c) Prove that $\cos^2 \alpha + \cos^2 \beta + \cos^2 \gamma + \cos^2 \delta = \frac{4}{3}$. 3
22. A college hostel accommodating 1000 students; one of them came from abroad with infection of corona virus, then the hostel was isolated. If the rate at which the virus spreads is assumed to be proportional to the product of the number 'N' of infected students and number of non-infected students and the number of infected students is 50 after 4 days.
- (a) Express the above information in the form of differential equation. 2
- (b) Solve the differential equation. 2
- (c) Show that more than 95% students will be infected after 10 days. 4

Question Vocational Math 2013

M Lipman



Question Voctional Math 2013:

Mathematics Education in Africa Brantina Chirinda,Kakoma Luneta,Alphonse Uworwabayeho,2022-11-28 This book is about mathematics teaching and learning in Africa during the Fourth Industrial Revolution The Fourth Industrial Revolution 4IR has evolved to utilize new technologies in the teaching and learning of Mathematics It is characterized by the fusion of the biological physical and digital worlds and embodies a new era of innovation in mathematics education leading to the rapid emergence of new technologies for mathematics teaching and learning Because 4IR in mathematics education is happening differently in various parts of Africa the authors of the various chapters in this volume have positioned their work in their respective local contexts The chapters address a wide variety of interests concerns and implications regarding 4IR and Mathematics Education in Africa Additionally a number of chapters address teaching mathematics in the context of the COVID 19 pandemic that has gripped the world Other chapters discuss the implications of inequalities in Africa that effect mathematics education during 4IR Chapters also incorporate arguments observations and suggestions to improve and transform the teaching and learning of mathematics in Africa during the 4IR This book highlights a new era of innovation in mathematics education in the context of the Fourth Industrial Revolution leading to the rapid emergence of new technologies in mathematics teaching and learning It is a valuable resource for graduate students people with research interests in the fourth industrial revolution and mathematics educators at any level including all mathematics teachers mathematics education curriculum designers and policymakers *Developing Research in Mathematics Education* Tommy

Dreyfus,Michèle Artigue,Despina Potari,Susanne Prediger,Kenneth Ruthven,2018-04-27 *Developing Research in Mathematics Education* is the first book in the series *New Perspectives on Research in Mathematics Education* to be produced in association with the prestigious European Society for Research in Mathematics Education This inaugural volume sets out broad advances in research in mathematics education which have accumulated over the last 20 years through the sustained exchange of ideas and collaboration between researchers in the field An impressive range of contributors provide specifically European and complementary global perspectives on major areas of research in the field on topics that include the content domains of arithmetic geometry algebra statistics and probability the mathematical processes of proving and modeling teaching and learning at specific age levels from early years to university teacher education teaching and classroom practices special aspects of teaching and learning mathematics such as creativity affect diversity technology and history theoretical perspectives and comparative approaches in mathematics education research This book is a fascinating compendium of state of the art knowledge for all mathematics education researchers graduate students teacher educators and curriculum developers worldwide *Breaking Images* Brian Greer,David Kollosche,Ole Skovsmose,2024-12-11

Mathematics is an activity something we do not just something inert that we study This rich collection begins from that premise to explore the various social influences institutional forces and lived realities that shape and mould the study and

practice of mathematics and are moulded by it in turn These twenty one essays explore questions of mathematics as a topic of philosophy but also the nature and purpose of mathematics education and the role of mathematics in moulding citizens It challenges the biases and prejudices inherent within uninformed histories of mathematics including problems of white supremacy the denial of cultural difference and the global homogenization of teaching methods In particular the book contrasts the effectiveness of mathematics and science in modelling physical phenomena and solving technical problems with its ineffectiveness in modelling social phenomena and solving human problems and urges us to consider how mathematics might better meet the urgent crises of our age The book addresses anybody who is interested in reflecting on the role of mathematics in society from different perspectives It allows mathematicians to ponder about the cultural connections of mathematics and provides new perspectives for philosophical sociological and cultural studies of mathematics Because of the book s emphasis on education in mathematics it is especially interesting for mathematics teachers and teacher educators to challenge their understanding of the subject

Current And Advanced Researches In Science And Math Education I Tayfun Tutak,2024-05-03 **National Longitudinal Study of the Class of 1972** National Center for Education Statistics,United States. Office of Educational Research and Improvement. Center for Statistics,1992 **Scripting Approaches in**

Mathematics Education Rina Zazkis,Patricio Herbst,2017-10-30 This book shows how the practice of script writing can be used both as a pedagogical approach and as a research tool in mathematics education It provides an opportunity for script writers to articulate their mathematical arguments and or their pedagogical approaches It further provides researchers with a corpus of narratives that can be analyzed using a variety of theoretical perspectives Various chapters argue for the use of dialogical method and highlight its benefits and special features The chapters examine both low tech implementations as well as the use of a technological platform LessonSketch The chapters present results of and insights from several recent studies which utilized scripting in mathematics education research and practice **1st International STEM Education**

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Education Turkey Ozlem Kalkan Turkish Ministry of Education Turkey Peter Nyström University of Duisburg Essen Germany
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Mathematical Modelling in Education Research and Practice Gloria Ann Stillman, Werner Blum, Maria Salett Biembengut, 2015-07-20 In this volume cultural social and cognitive influences on the research and teaching of mathematical modelling are explored from a variety of theoretical and practical perspectives The authors of the current volume are all members of the International Community of Teachers of Mathematical Modelling and Applications the peak research body in this field A distinctive feature of this volume is the high number of authors from South American countries These authors bring quite a different perspective to modelling than has been showcased in previous books in this series in particular from a cultural point of view As well as recent international research there is a strong emphasis on pedagogical issues including those associated with technology and assessment in the teaching and learning of modelling Applications at various levels of education are exemplified The contributions reflect common issues shared globally and represent emergent or on going challenges

Education and Society Dr. Thurston Domina, Dr. Benjamin G. Gibbs, Dr. Lisa Nunn, Dr. Andrew Penner, 2019-08-20 Drawing on current scholarship Education and Society takes students on a journey through the many roles that education plays in contemporary societies Addressing students own experience of education before expanding to larger sociological conversations Education and Society helps readers understand and engage with such topics as peer groups gender and identity social class the racialization of achievement the treatment of immigrant children special education school choice accountability discipline global perspectives and schooling as a social institution The book prompts students to evaluate how schools organize our society and how society organizes our schools Moving from students to schooling to social forces Education and Society provides a lively and engaging introduction to theory and research and will serve as a cornerstone for courses such as sociology of education foundations of education critical issues in education and school and society

Handbook of Issues in Criminal Justice Reform in the United States Elizabeth Jeglic, Cynthia Calkins, 2021-12-04 This handbook provides a holistic and comprehensive examination of issues related to criminal justice reform in the United States from a multidisciplinary perspective Divided into five key domains of reform in the criminal justice system it analyzes Policing Policy and sentencing Reentry Treatment Alternatives to incarceration Each section provides a history and overview of the domain within the criminal justice system followed by chapters discussing issues integral to reform The volume emphasizes decreasing incarceration and minimizing racial ethnic and economic inequalities Each section ends with tangible recommendations based on evidence based approaches for reform Of interest to researchers scholars activists and policy makers this unique volume offers a pathway for the future of criminal justice reform in the United States

Handbook of Research on Interdisciplinarity Between Science and Mathematics in Education Cavadas, Bento, Branco, Neusa, 2023-01-24 Working in an interdisciplinary manner is long pursued but a difficult goal of

science and mathematics education The interdisciplinarity of science and mathematics can occur when connections between those disciplines are identified and developed These connections could be expressed in the educational policies curriculum or in the science and mathematics teachers educational practices Sometimes those connections are scarce but in other moments full integration is achieved The Handbook of Research on Interdisciplinarity Between Science and Mathematics in Education presents results of good practices and interdisciplinary educational approaches in science and mathematics It presents a broad range of approaches for all educational levels from kindergarten to university Covering topics such as computer programming mathematics in environmental issues and simple machines this major reference work is an excellent resource for administrators and educators of both K 12 and higher education government officials pre service teachers teacher educators librarians researchers and academicians

Applied Degree Education and the Shape of Things to Come Christina Hong, Will W. K. Ma, 2023-05-19 This edited book seeks to evolve a global community of practice to share case studies engage in critical discussion and spearhead thought leadership to address the paradigm shift in next generation educational practice This book showcases novel research studies in various forms and engenders interdisciplinary conversation and exchange concerning innovation technology and the role of applied education in workforce futures It also equips readers with global perspectives on the latest developments in applied degree education and thinking on new education futures

Mathematics Curriculum Reforms Around the World Yoshinori Shimizu, Renuka Vithal, 2023-06-28 This Open Access volume by the International Commission on Mathematical Instruction ICMI is an outcome of the ICMI Study 24 and gives a status quo of school mathematics reform around the world and what we can learn from this movement Each theme and section of the book offers descriptions and analyses of multiple case studies in different countries and contexts along with opportunities to compare contrast and learn from these diverse experiences The volume provides a synthesis and meta analysis of the different historical geographical and global aspects of school mathematics reforms and explores in which way curricula are elaborated proposed changed and reorganized It offers a more informed and comprehensive analysis of the roles of different actors and of the many aspects influencing and shaping mathematics curriculum reforms that are taking or have taken place It also explores the possibilities and means to tackle a curricular reform in the current scenario we live in and how to unfold future developments This book will be of interest to practitioners and scholars with an interest in school mathematics curriculum reforms It will also be a useful resource to those involved in school mathematics curriculum reform initiatives by providing current information about the curriculum changes that are taking place in respect of content teacher education educational materials and a range of implementation challenges across diverse contexts

The Psychology of Asian Learners Ronnel B. King, Allan B. I. Bernardo, 2015-10-12 This book celebrates the scholarly achievements of Prof David A Watkins who has pioneered research on the psychology of Asian learners and helps readers grasp the cognitive motivational developmental and socio cultural aspects of Asian learners learning experiences A wide range of empirical and

review papers which examine the characteristics of these experiences as they are shaped by both the particularities of diverse educational systems cultural milieus and universal principles of human learning and development are showcased The individual chapters which explore learners from fourteen Asian countries autonomous regions and or economies build on research themes and approaches from Prof Watkins research work and are proof of the broad importance and enduring relevance of his seminal psychological research on learners and the learning process Common Sense Questions about Tests Gerard Giordano,2016-03-07 Parents had questions about the tests their children took at school They considered them to be common sense questions They posed them to the businesspeople publishers and politicians who championed tests They also posed them to the school administrators teachers and union leaders who criticized them This book examines the questions the parents posed the answers they elicited and the changes they prodded **OECD Economic Surveys: Russian Federation 2013** OECD,2014-01-15 This 2013 edition of OECD s period review of the Russian economy examines recent economic developments prospects and policies A special chapter covers boosting productivity by improving the business climate and skills **Affect and Mathematics Education** Markku S. Hannula,Gilah C. Leder,Francesca Morselli,Maike Vollstedt,Qiaoping Zhang,2019-06-03 This open access book inspired by the ICME 13 topic study group Affect beliefs and identity in mathematics education presents the latest trends in research in the area Following an introduction and a survey chapter providing a concise overview of the state of art in the field of mathematics related affect the book is divided into three main sections motivation and values engagement and identity in mathematics education Each section comprises several independent chapters based on original research as well as a reflective commentary by an expert in the area Collectively the chapters present a rich methodological spectrum from narrative analysis to structural equation modelling In the final chapter the editors look ahead to future directions in the area of mathematics education related affect It is a timely resource for all those interested in the interaction between affect and mathematics education **ECEL2013- Proceedings for the 12th European Conference on eLearning** Dr Mélanie Ciussi,Dr Marc Augier,2013-01-09 The Math Myth Andrew Hacker,2010-05-25 A New York Times bestselling author looks at mathematics education in America when it s worthwhile and when it s not Why do we inflict a full menu of mathematics algebra geometry trigonometry even calculus on all young Americans regardless of their interests or aptitudes While Andrew Hacker has been a professor of mathematics himself and extols the glories of the subject he also questions some widely held assumptions in this thought provoking and practical minded book Does advanced math really broaden our minds Is mastery of azimuths and asymptotes needed for success in most jobs Should the entire Common Core syllabus be required of every student Hacker worries that our nation s current frenzied emphasis on STEM is diverting attention from other pursuits and even subverting the spirit of the country Here he shows how mandating math for everyone prevents other talents from being developed and acts as an irrational barrier to graduation and careers He proposes alternatives including teaching facility with figures quantitative reasoning and

understanding statistics Expanding upon the author's viral New York Times op ed *The Math Myth* is sure to spark a heated and needed national conversation not just about mathematics but about the kind of people and society we want to be Hacker's accessible arguments offer plenty to think about and should serve as a clarion call to students parents and educators who decry the one size fits all approach to schooling Publishers Weekly starred review

Teacher Noticing of Pre-service and In-service Secondary Mathematics Teachers Anton Bastian, 2024-08-08 In light of increasing demands on teachers and the need to develop teaching related competences this book examines the situation specific skill of teacher noticing in pre service and in service secondary mathematics teachers A video based test instrument is used to measure teachers noticing skills in perception interpretation and decision making from both general and mathematics pedagogical perspectives The aim is to understand the structure and characteristics of teacher noticing across different groups as well as the influences of teaching experience and opportunities to learn Three quantitative studies are conducted two cross sectional studies with 457 participants including master's students early career teachers and experienced teachers and one longitudinal study with 175 master's students The results support the conceptualization of teacher noticing as comprising three facets They also reveal positive influences of teaching experience on the development of teacher noticing with in service teachers outperforming master's students However experienced teachers perform similarly to early career teachers in general and worse in certain areas suggesting saturation or forgetting effects The longitudinal study finds that interpretation skills facilitate the development of perception and decision making emphasizing the knowledge based nature of teacher noticing

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