(i) Show that 
$$\alpha = \frac{1}{2} \exp\left(1 + \frac{\ln 2}{\alpha}\right)$$
, where  $\exp(x)$  denotes  $e^x$ . [6]

(ii) Use the iterative formula

$$a_{n+1} = \frac{1}{2} \exp\left(1 + \frac{\ln 2}{a_n}\right)$$

to determine the value of a correct to 2 decimal places. Give the result of each iteration to 4 decimal places.

In a certain country the government charges tax on each litre of petrol sold to motorists. The revenue per year is R million dollars when the rate of tax is x dollars per litre. The variation of R with x is modelled by the differential equation

$$\frac{\mathrm{d}R}{\mathrm{d}x} = R\left(\frac{1}{x} - 0.57\right),\,$$

where R and x are taken to be continuous variables. When x = 0.5, R = 16.8.

(ii) This model predicts that R cannot exceed a certain amount. Find this maximum value of R.

(i) By first expanding sin(28+8), show that

$$\sin 3\theta = 3\sin \theta - 4\sin^3 \theta.$$
 [4]

[6]

[4]

(ii) Show that, after making the substitution  $x = \frac{2\sin\theta}{\sqrt{3}}$ , the equation  $x^3 - x + \frac{1}{6}\sqrt{3} = 0$  can be written in the form  $\sin 3\theta = \frac{3}{4}$ . E13

(iii) Hence solve the equation

$$x^3 - x + \frac{1}{6}\sqrt{3} = 0$$

giving your answers correct to 3 significant figures.

9 Let 
$$f(x) = \frac{x^2 - 8x + 9}{(1 - x)(2 - x)^2}$$

(i) Express f(x) in partial fractions. 151

(ii) Hence obtain the expansion of f(x) in ascending powers of x, up to and including the term in  $x^2$ [5]

The line I has equation  $r = 4i - 9j + 9k + \lambda(-2i + j - 2k)$ . The point A has position vector 3i + 8j + 5k.

(i) Show that the length of the perpendicular from A to I is 15. [5]

(ii) The line I lies in the plane with equation ax + by - 3z + 1 = 0, where a and b are constants. Find the values of a and b.

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humans can retain a crucial edge And in exploring these areas he opens up a fascinating world where we can develop our uniquely human mathematical superpowers Technology Enhanced Assessment Silvester Draaijer, Desirée Joosten-ten Brinke, Eric Ras, 2019-07-12 This book constitutes the proceedings of the 21st International Conference on Technology Enhanced Assessment TEA 2018 held in Amsterdam The Netherlands in December 2018 The 14 papers presented were carefully selected from 34 submissions. They are centered around topics like e learning computer assisted instruction interactive learning environments collaborative learning computing education student assessment Cyril Julie, Lorna Holtman, Charles R. Smith, 2019-12-11 The research reported in Caught in the Act draws together the insights gained from a continuous professional development initiative for high school mathematics teachers teaching in low socio economic status and socially challenged environments in South Africa The chapters show the possibilities for enhancing achievement in school mathematics if a strength based approach is adopted to develop teaching with teachers and when their concerns are taken seriously. The book demonstrates that the ecological relevance fitness for the context in which teachers are teaching of the goods developed and distributed by initiatives should be a major consideration to offer hope for sustainable implementation to improve school mathematics education The book is of interest to mathematics teachers school leaders mathematics curriculum advisors policy makers and researchers STEM Education in the Junior Secondary Robyn Jorgensen, Kevin Larkin, 2017-08-09 This book brings together a collection of internationally renowned authors in the STEM field to share innovations in the teaching of STEM It focuses on the junior secondary years of education students aged 11 15 since this is the age range in which students choose whether or not to formally opt out of STEM education It is here that the book makes a significant contribution to the field by integrating the STEM area and focusing on the junior years of schooling While developing this book the editors drew on two main premises Firstly STEM is seen as the integrated study of science technology engineering and mathematics in a coherent learning paradigm that is based on real world applications Secondly it is important to integrate digital technologies into STEM education beyond the superficial use of ICTs seen in many schools The book also addresses the challenges within STEM education many of which are long standing To this end it includes chapters on marginalised and diverse communities ensuring that a broad range of perspectives on STEM education is included World Development Report 2016 World Bank Group, 2016-01-14 This Report aims to inspire and guide the researchers and practitioners who can help advance a new set of development approaches based on a fuller consideration of psychological and social influences p 2 ICT and Society Kai Kimppa, Diane Whitehouse, Tiina Kuusela, Jackie Phahlamohlaka, 2014-07-25 This book constitutes the refereed proceedings of the 11th IFIP TC 9 International Conference on Human Choice and Computers HCC11 2014 held in Turku Finland in July August 2014 The 29 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are based on both academic research and the professional experience of information technologists working in the field They have been organized in the following topical

sections society social responsibility ethics and ICT the history of computing and its meaning for the future peace war cyber security and ICT and health care well being and ICT 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 The Universe Speaks in Numbers Graham Farmelo, 2019-04-30 A superbly written riveting book MARTIN REES Astronomer Royal I am overcome with admiration for its range and profundity An amazing achievement MICHAEL FRAYN A wonderful book TOM STOPPARD A groundbreaking exploration of how the interplay of physics and mathematics has enriched our understanding of the universe essential reading for anyone who wants to grasp how physicists are attempting in Stephen Hawking's words to know the mind of God Searching for the fundamental laws of the universe physicists have found themselves developing ambitious mathematical ideas But without observation and experiment as their guide are they now doing fairy tale physics as their detractors claim In The Universe Speaks in Numbers Graham Farmelo argues that today s greatest scientific minds are working in a tradition that dates back to Newton He takes us on an adventure from the Enlightenment to the breakthroughs of Einstein and Dirac to the work of modern physicists and mathematicians shedding light on each other s disciplines to their mutual surprise and excitement This blossoming relationship is responsible for huge advances in our understanding of space and time and as Farmelo explains could redefine reality as we know it LISTEN TO THE ACCOMPANYING PODCAST featuring interviews with leading scientists at www grahamfarmelo com Ssc Cql Tier-I Examination, 40 Solved Papers (2016–2022) (4000 Questions With Answers & Detailed Explanations) Team Prabhat, 2022-11-18 Dive into the treasure trove of SSC CGL Tier I Examination with 40 Solved Papers 2016 2022 meticulously crafted by Team Prabhat This comprehensive

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<u>Commonsense Methods for Children with Special Educational Needs</u> Peter Westwood, 2015-04-30 This fully revised and updated seventh edition of Commonsense Methods for Children with Special Educational Needs continues to offer practical

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