

NOTE:

- If a candidate answers a question/vraag TWICE, only mark the FIRST attempt.
- Consistent accuracy applies in all aspects of the marking memorandum.

LET WEL:

- Indien 'n kandidaat 'n vraag TWEE keer beantwoord, merk slegs die EERSTE poging.
- Volgehoue akkuraatheid is DEURGAANS in ALLE aspekte van die memorandum van toepassing.

QUESTION/VRAAG 1

1.1.1	$3x^2 - 4x = 0$ $x(3x - 4) = 0$ $x = \frac{4}{3}$ or $x = 0$	✓ factors ✓ both answers (2)
1.1.2	$x - 6 + \frac{2}{x} = 0$ $x^2 - 6x + 2 = 0$ $x = \frac{-(-6) \pm \sqrt{(-6)^2 - 4(1)(2)}}{2(1)}$ $= \frac{6 \pm \sqrt{28}}{2}$ $x = 0,35$ or $x = 5,65$ OR $x - 6 + \frac{2}{x} = 0$ $x^2 - 6x + 2 = 0$ $(x - 3)^2 = -2 + 9$ $(x - 3) = \pm\sqrt{7}$ $x = 3 \pm \sqrt{7}$ $x = 0,35$ or $x = 5,65$	✓ $x^2 - 6x + 2 = 0$ ✓ subs into correct formula ✓ $x = 0,35$ ✓ $x = 5,65$ (4)
1.1.3	$x^{\frac{2}{3}} = 4$; $x > 0$ $x = (2^2)^{\frac{3}{2}}$ $x = 8$ OR	✓ $x = (2^2)^{\frac{3}{2}}$ ✓ $x = 8$ (2)

Maths Paper 2 Exemplar 2014 June

Padhraic Smyth



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Handbook of Research on Teacher Practices for Diverse Writing Instruction Hodges, Tracey S., 2022-05-20 The art and practice of writing is complex and multidimensional students often apply unique writing styles As such educators must apply focused teaching methods to nurture these unique forms of writing Educators must stay up to date with the practices for diverse writing instruction in order to best engage with a diverse classroom However resources related to writing typically do not focus on the depth and breadth of writing and there is a need for a resource that offers a comprehensive look at diverse writing instruction research The Handbook of Research on Teacher Practices for Diverse Writing Instruction provides a rich discussion of the issues perspectives and methods for writing instruction currently in use with an added lens focusing on diversity and equity It provides unique coverage on the topic of writing instruction for practical implementation within the classroom setting Covering topics such as student motivation curriculum development and content area instruction this major reference work is an essential resource for preservice teachers faculty and administration of K 12 and higher education academic libraries government officials school boards researchers and academicians

Journal of Contemporary Urban Affairs, Vol.1 No.2, 2017 Senem Zeybekoglu Sadri, Hourakhsh Ahmad Nia, Yousif Hussien Suleiman, Mustafa Aziz Amen, Ifeanyi Obi, Donia Zhang, Anindita Mandal, Hugh Byrd, Ehsan Valipour, Samira Tayyebisoudkolaei, Abdollah Mobaraki, Hossein Sadri, 2017-12-01

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Advanced Concepts for Intelligent Vision Systems Jacques Blanc-Talon, David Helbert, Wilfried Philips, Dan Popescu, Paul Scheunders, 2018-09-24 This book constitutes the refereed proceedings of the 19th International Conference on Advanced Concepts for Intelligent Vision Systems ACIVS 2018 held in Poitiers France in September 2018 The 52 full papers presented in this volume were carefully reviewed and selected from 91 submissions They were organized in topical sections named video analysis segmentation and classification remote sensing biometrics deep learning coding and compression and image restoration

and reconstruction

Developmental Psychopathology, Risk, Resilience, and Intervention Dante

Cicchetti, 2016-02-01 Examine the latest research merging nature and nurture in pathological development Developmental Psychopathology is a four volume compendium of the most complete and current research on every aspect of the field Volume Four Genes and Environment focuses on the interplay between nature and nurture throughout the life stages and the ways in which a child's environment can influence his or her physical and mental health as an adult The discussion explores relationships with family friends and the community environmental factors like poverty violence and social support the development of coping mechanisms and more including the impact of these factors on physical brain development This new third edition has been fully updated to incorporate the latest advances and to better reflect the increasingly multilevel and interdisciplinary nature of the field and the growing importance of translational research The relevance of classification in a developmental context is also addressed including DSM 5 criteria and definitions Advances in developmental psychopathology are occurring increasingly quickly as expanding theoretical and empirical work brings about dramatic gains in the multiple domains of child and adult development This book brings you up to date on the latest developments surrounding genetics and environmental influence including their intersection in experience dependent brain development Understand the impact of childhood adversity on adulthood health Gauge the effects of violence poverty interparental conflict and more Learn how peer family and community relationships drive development Examine developments in prevention science and future research priorities Developmental psychopathology is necessarily interdisciplinary as development arises from a dynamic interplay between psychological genetic social cognitive emotional and cultural factors Developmental Psychopathology Volume Four Genes and Environment brings this diverse research together to give you a cohesive picture of the state of knowledge in the field

Policy and Practice in Science Education for the Gifted Manabu Sumida, Keith

Taber, 2017-03-16 Gifted education has come to be regarded as a key national programme in many countries and gifted education in science disciplines is now being recognised to be of major importance for economic and technological development Despite these initiatives and developments internationally there are very few discussions on gifted education in science drawing upon practices and experiences in different national contexts In support of an international dialogue between researchers and practitioners often working within isolated traditions this book offers information on key influential approaches to science education for gifted learners and surveys current policy and practice from a diverse range of educational contexts The volume offers an informative introduction for those new to studying gifted science education as well as supporting the development of the field by offering examples of critical thinking about key issues and accounts of the influences at work within education systems and the practical complexities of providing science education for the gifted The contributions draw upon a variety of research approaches to offer insights into the constraints and affordances of working within particular policy contexts and the strengths and challenges inherent in different approaches to practice Chapters

include Teaching science to the gifted in English state schools locating a compromised gifted talented policy within its systemic context Models of education for science talented adolescents in the United States Past present and likely future trends Navigating the shifting terrain between policy and practice for gifted learners in Tanzania Science education for female indigenous gifted students in the Mexican context Gifted Science Education in the Context of Japanese Standardization This book will appeal to scholars practitioners and policy makers who are in the field of gifted science education

The Publishers' Circular and Booksellers' Record ,1916 **Teaching to Change the World** Jeannie Oakes,Martin Lipton,Lauren Anderson,Jamy Stillman,2018-01-29 Teaching to Change the World is an up to the moment engaging social justice oriented introduction to education and teaching and the challenges and opportunities they present Both foundational and practical the chapters are organized around conventional topics but in a way that consistently integrates a coherent story that explains why schools are as they are Taking the position that a hopeful democratic future depends on ensuring that all students learn the text pays particular attention to inequalities associated with race social class language gender and other social categories and explores teachers role in addressing them This thoroughly revised fifth edition remains a vital introduction to the profession for a new generation of teachers who seek to become purposeful knowledgeable practitioners in our ever changing educational landscape for those teachers who see the potential for education to change the world Features and Updates of the New Edition Fully updated Chapter 1 The U S Schooling Dilemma reflects our current state of education after the 2016 U S presidential election First person observations from teachers including first year teachers continue to offer vivid authentic pictures of what teaching to change the world means and involves Additional coverage of the ongoing effects of Common Core highlights the heated public discourse around teaching and teachers and charter schools Attention to diversity and inclusion is treated as integral to all chapters woven throughout rather than tacked on as separate units Digging Deeper resources on the new companion website include concrete resources that current and future teachers can use in their classrooms Tools for Critique provides instructors and students questions prompts and activities aimed at encouraging classroom discussion and particularly engaging those students least familiar with the central tenets of social justice education

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