

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)

All 2013 Grade 12 Mathematics P1 Nw

Dean Hathout



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K-12 STEM Education in Urban Learning Environments Wendt, Jillian L., Apugo, Danielle L., 2019-04-12 This title is an IGI Global Core Reference for 2019 as it provides the timeliest trending research around overcoming challenges within the urban educational system Featuring real world solutions and comprehensive coverage on teacher professional development racial microaggressions STEM and diversity in elementary and secondary education this publication is ideal for teachers faculty administrators policymakers and educational researchers K 12 STEM Education in Urban Learning Environments provides emerging research on the challenges and barriers of STEM education in urban environments and how to move forward in overcoming these challenges and barriers to provide equitable education for all K 12 students Featuring coverage on a broad range of topics such as teacher preparation programming gender and racial barriers and more this publication is ideally designed for teachers faculty administrators policymakers researchers and scholars **Preparation Master UPTET Paper 1 - Previous Year Solved Papers (2011 - 2022) - Uttar Pradesh Teacher Eligibility Test Class 1 to 5 with Free Access to Online Tests** EduGorilla Prep Experts, **Handbook on the Science of Literacy in Grades 3-8** Susan B. Neuman, Melanie R. Kuhn, 2025-09-10 From foremost authorities this needed work demonstrates the importance of a science of literacy perspective for teaching and learning beyond the primary grades Contributors present cutting edge research on reading and writing development in grades 3 8 and review evidence based classroom practices and professional learning frameworks The Handbook explores how to support upper elementary and middle grades learners in improving morphological knowledge and vocabulary understanding text complexity and building comprehension It describes effective ways to meet the instructional needs of struggling readers and writers including multilingual students and those with learning disabilities Timely topics include multi tiered systems of support student motivation and engagement adaptive teaching digital and multimodal literacies and culturally responsive and sustaining practices **Who's who in American Education** ,1990 **Wearing Gauss's Jersey** Dean Hathout, 2013-05-01 Wearing Gauss s Jersey focuses on Gauss problems problems that can be very tedious and time consuming when tackled in a traditional straightforward way but if approached in a more insightful fashion can yield the solution much more easily and elegantly The book shows how mathematical problem solving can be fun and how students can improve the **Home, School, and Community Collaboration** Kathy B. Grant, Julie A. Ray, 2015-04-29 Filled with practical suggestions and reflective opportunities Home School and Community Collaboration Third Edition uses the culturally responsive family support model as a framework to prepare teachers to work with diverse families This text includes contributions from 22 experts in the field offering a wide range of perspectives on issues of family involvement that today s teachers are likely to encounter Authors Kathy B Grant and Julie A Ray offer the latest research on family demographics including those with children who have special needs Numerous real life vignettes and case studies have been incorporated throughout the text to show readers the practical application of

culturally responsive family engagement **International Handbook of Research on Multicultural Science Education**

Mary M. Atwater, 2022-06-30 This handbook gathers in one volume the major research and scholarship related to multicultural science education that has developed since the field was named and established by Atwater in 1993 Culture is defined in this handbook as an integrated pattern of shared values beliefs languages worldviews behaviors artifacts knowledge and social and political relationships of a group of people in a particular place or time that the people use to understand or make meaning of their world each other and other groups of people and to transmit these to succeeding generations The research studies include both different kinds of qualitative and quantitative studies The chapters in this volume reflect differing ideas about culture and its impact on science learning and teaching in different K 14 contexts and policy issues Research findings about groups that are underrepresented in STEM in the United States and in other countries related to language issues and indigenous knowledge are included in this volume Building Capacity for Teaching

Engineering in K-12 Education National Academies of Sciences, Engineering, and Medicine, National Academy of Engineering, Division of Behavioral and Social Sciences and Education, Board on Science Education, Committee on Educator Capacity Building in K-12 Engineering Education, 2020-04-13 Engineering education is emerging as an important component of US K 12 education Across the country students in classrooms and after and out of school programs are participating in hands on problem focused learning activities using the engineering design process These experiences can be engaging support learning in other areas such as science and mathematics and provide a window into the important role of engineering in society As the landscape of K 12 engineering education continues to grow and evolve educators administrators and policy makers should consider the capacity of the US education system to meet current and anticipated needs for K 12 teachers of engineering Building Capacity for Teaching Engineering in K 12 Education reviews existing curricula and programs as well as related research to understand current and anticipated future needs for engineering literate K 12 educators in the United States and determine how these needs might be addressed Key topics in this report include the preparation of K 12 engineering educators professional pathways for K 12 engineering educators and the role of higher education in preparing engineering educators This report proposes steps that stakeholders including professional development providers postsecondary preservice education programs postsecondary engineering and engineering technology programs formal and informal educator credentialing organizations and the education and learning sciences research communities might take to increase the number skill level and confidence of K 12 teachers of engineering in the United States **The Stanford Alumni Directory**, 1989 **Oswaal CTET (CENTRAL TEACHERS ELIGIBILITY TEST) 15**

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