

Subject - Math AA(Standard Level)
Topic - Calculus
Year - May 2021 - Nov 2022
Paper -2
Questions

Question 1

[Maximum mark: 7]

The displacement, in centimetres, of a particle from an origin, O, at time t seconds, is given by $s(t) = t^2 \cos t + 2t \sin t$, $0 \leq t \leq 5$.

- (a) Find the maximum distance of the particle from O. [3]
- (b) Find the acceleration of the particle at the instant it first changes direction. [4]

Question 2

[Maximum mark: 15]

Consider the function f defined by $f(x) = 90e^{-0.5x}$ for $x \in \mathbb{R}^+$.

The graph of f and the line $y = x$ intersect at point P.

- (a) Find the x -coordinate of P. [2]

The line L has a gradient of -1 and is a tangent to the graph of f at the point Q.

- (b) Find the exact coordinates of Q. [4]
- (c) Show that the equation of L is $y = -x + 2 \ln 45 + 2$. [2]

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Daniel J. Brahier



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Mathematics and Multi-Ethnic Students Yvelyne Germain-McCarthy, 2017-05-25 Mathematics and Multi Ethnic Students provides detailed profiles of teachers across the nation who have implemented effective mathematics instruction for diverse student populations In this revised edition Yvelyne Germain McCarthy expands upon the popular case studies and adds two new chapters to highlight the latest educational research and practices that are reflected in the case studies A third new chapter introduces the concept of the Life Long Learning Laboratory where courageous questions on issues such as the impact of race on student learning are discussed Featuring useful framing tools including the Discussion with Colleagues and Commentary sections Mathematics and Multi Ethnic Students translates concrete instances of access and equity into generalized problem solving methods for promoting ethnic diversity across grade levels An important resource for pre service and in service educators researchers administrators and policy makers this volume highlights the work of teachers who have gone beyond mere awareness of reform recommendations in mathematics instruction By uniting the goals of multicultural education with those of the mathematics curriculum educators will learn to conceptualize and implement best practices for effective equitable teaching and learning of mathematics for their students Mathematical and Statistics Anxiety: Educational, Social, Developmental and Cognitive Perspectives Kinga Morsanyi, Irene Cristina Mammarella, Denes Szűcs, Carlo Tomasetto, Caterina Primi, Erin Anne Maloney, 2017-01-19 Mathematical anxiety is a feeling of tension apprehension or fear which arises when a person is faced with mathematical content The negative consequences of mathematical anxiety are well documented Students with high levels of mathematical anxiety might underperform in important test situations they tend to hold negative attitudes towards mathematics and they are likely to opt out of elective mathematics courses which also affects their career opportunities Although at the university level many students do not continue to study mathematics social science students are confronted with the fact that their disciplines involve learning about statistics another potential source of anxiety for students who are uncomfortable with dealing with numerical content Research on mathematical anxiety is a truly interdisciplinary field with contributions from educational developmental cognitive social and neuroscience researchers The current collection of papers demonstrates the diversity of the field offering both new empirical contributions and reviews of existing studies The contributors also outline future directions for this line of research **Transformational Change Efforts: Student Engagement in Mathematics through an Institutional Network for Active Learning** Wendy M. Smith, Matthew Voigt, April Ström, David C. Webb, W. Gary Martin, 2021-05-05 The purpose of this handbook is to help launch institutional transformations in mathematics departments to improve student success We report findings from the Student Engagement in Mathematics through an Institutional Network for Active Learning SEMINAL study SEMINAL s purpose is to help change agents those looking to or currently attempting to enact change within mathematics departments and beyond trying to reform the instruction of their lower

division mathematics courses in order to promote high achievement for all students SEMINAL specifically studies the change mechanisms that allow postsecondary institutions to incorporate and sustain active learning in Precalculus to Calculus 2 learning environments Out of the approximately 2.5 million students enrolled in collegiate mathematics courses each year over 90% are enrolled in Precalculus to Calculus 2 courses Forty four percent of mathematics departments think active learning mathematics strategies are important for Precalculus to Calculus 2 courses but only 15 percent state that they are very successful at implementing them Therefore insights into the following research question will help with institutional transformations What conditions strategies interventions and actions at the departmental and classroom levels contribute to the initiation implementation and institutional sustainability of active learning in the undergraduate calculus sequence Precalculus to Calculus 2 across varied institutions

Handbook of Research on Professional Development for Quality

Teaching and Learning Petty, Teresa, Good, Amy, Putman, S. Michael, 2016-06-16 As educational standards continue to transform it has become essential for educators and pre service teachers to receive the support and training necessary to effectively instruct their students and meet societal expectations However there is not a clear consensus on what constitutes teacher effectiveness and quality within the education realm The Handbook of Research on Professional Development for Quality Teaching and Learning provides theoretical perspectives and empirical research on educator preparation and methods for enhancing the teaching process Focusing on teacher effectiveness and support provided to current and pre service educators this publication is a comprehensive reference source for practitioners researchers policy makers graduate students and university faculty

Balancing the Equation Matthew R. Larson, Timothy D. Kanold, 2016-04-18 Copublished with the National Council of Teachers of Mathematics this book focuses on individuals involved in K 12 mathematics education who seek to help children achieve success The authors tackle popular misconceptions and misguided discourse about mathematics education and draw on peer reviewed research about instruction that can significantly improve students conceptual understanding Benefits Explore reasons why expectations for mathematics teaching and learning must be raised Study the history of the progression changes and disputes in K 12 mathematics education Discover insights about mathematics education in an era of mathematics reform Define mathematical literacy and what elements are part of effective mathematics instruction Learn the steps that must be taken to support the teaching and learning of mathematics so all students can be college and career ready Contents Introduction Why Mathematics Education Needs to Improve A Brief History of Mathematics Education Lessons to Learn The Equilibrium Position and Effective Mathematics Instruction How to Help Your Child Learn Mathematics Conclusion and Action Steps for Educators and Parents Epilogue Conclusion and Action Steps for Educators and Parents Appendix Additional Resources for Parents

Handbook of Research on Teacher Education in the Digital Age Niess, Margaret L., Gillow-Wiles, Henry, 2015-08-03 Traditional classrooms are fast becoming a minority in the education field As technologies continue to develop as a pervasive aspect of modern society educators must

be trained to meet the demands and opportunities afforded by this technology rich landscape The Handbook of Research on Teacher Education in the Digital Age focuses on the needs of teachers as they redesign their curricula and lessons to incorporate new technological tools Including theoretical frameworks empirical research and best practices this book serves as a guide for researchers educators and faculty and professional developers of distance learning tools

Handbook of Child Psychology and Developmental Science, Socioemotional Processes, 2015-04-06 The essential reference for human development theory updated and reconceptualized The Handbook of Child Psychology and Developmental Science a four volume reference is the field defining work to which all others are compared First published in 1946 and now in its Seventh Edition the Handbook has long been considered the definitive guide to the field of developmental science Volume 3 Social Emotional and Personality Development presents up to date knowledge and theoretical understanding of the several facets of social emotional and personality processes The volume emphasizes that any specific processes function or behavior discussed in the volume co occurs alongside and is inextricably affected by the dozens of other processes functions or behaviors that are the focus of other researchers work As a result the volume underscores the importance of a focus on the whole developing child and his or her sociocultural and historical environment Understand the multiple processes that are interrelated in personality development Discover the individual cultural social and economic processes that contribute to the social emotional and personality development of individuals Learn about the several individual and contextual contributions to the development of such facets of the individual as morality spirituality or aggressive violent behavior Study the processes that contribute to the development of gender sexuality motivation and social engagement The scholarship within this volume and as well across the four volumes of this edition illustrate that developmental science is in the midst of a very exciting period There is a paradigm shift that involves increasingly greater understanding of how to describe explain and optimize the course of human life for diverse individuals living within diverse contexts This Handbook is the definitive reference for educators policy makers researchers students and practitioners in human development psychology sociology anthropology and neuroscience

Teaching Secondary and Middle School Mathematics Daniel J. Brahier, 2016-02-12 Teaching Secondary and Middle School Mathematics combines the latest developments in research standards and technology with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics today In the fully revised fifth edition scholar and mathematics educator Daniel Brahier invites teachers to investigate the nature of the mathematics curriculum and reflect on research based best practices as they define and sharpen their own personal teaching styles The fifth edition has been updated and expanded with a particular emphasis on the continued impact of the Common Core State Standards for Mathematics and NCTM's just released Principles to Actions as well as increased attention to teaching with technology classroom management and differentiated instruction Features include A full new Chapter 7 on selection and use of specific tools and technology combined with Spotlight on Technology

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How Chinese Acquire and Improve Mathematics Knowledge for Teaching Yeping Li,Rongjin Huang,2018-05-16 While the importance of knowledge for effective instruction has long been acknowledged and the concept and structure of mathematics knowledge for teaching are far from being new the process of such knowledge acquisition and improvement remains underexplored empirically and theoretically The difficulty can well associate with the fact that different education systems embody different values for what mathematics teachers need to learn and how they can be assisted to develop their knowledge To improve this situation with needed consideration about a system context and policies How Chinese Acquire and Improve Mathematics Knowledge for Teaching takes a unique approach to present new research that views knowledge acquisition and improvement as part of teachers life long professional learning process in China The book includes such chapters that can help readers to make possible connections of teachers mathematical knowledge for teaching in China with educational policies and program structures for mathematics teacher education in that system context How Chinese Acquire and Improve Mathematics Knowledge for Teaching brings invaluable inspirations and insights to mathematics educators and teacher educators who wish to help teachers improve their knowledge and to researchers who study this important topic beyond a static knowledge conception

Handbook of Research on Innovative Technology Integration in Higher Education Nafukho, Fredrick Muyia,Irby, Beverly J.,2015-02-28 Our increasingly globalized world is driven by shared knowledge and nowhere is that knowledge more important than in education Now more than ever there is a demand for technology that will assist in the spread of knowledge through customized self paced and on demand learning The Handbook of Research on Innovative Technology Integration in Higher Education provides an international perspective on the need for information and communication technology in education and training Highlighting the use of technology in both formal and informal learning this book is an essential reference for

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