

Subject - Math AA(Standard Level)
Topic - Calculus
Year - May 2021 - Nov 2022
Paper -1
Questions

Question 1

[Maximum mark: 16]

Let $f(x) = \frac{\ln 5x}{kx}$ where $x > 0$, $k \in \mathbb{R}^+$.

(a) Show that $f'(x) = \frac{1 - \ln 5x}{kx^2}$. [3]

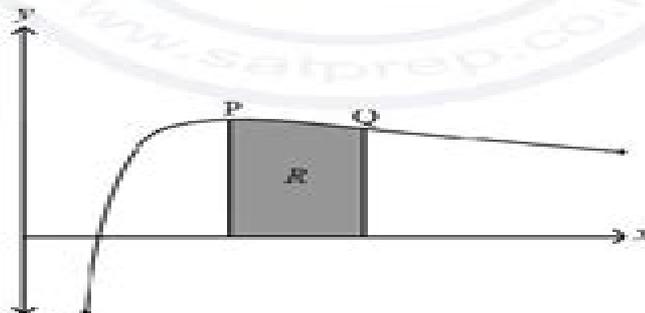
The graph of f has exactly one maximum point P .

(b) Find the x -coordinate of P . [3]

The second derivative of f is given by $f''(x) = \frac{2 \ln 5x - 3}{kx^3}$. The graph of f has exactly one point of inflexion Q .

(c) Show that the x -coordinate of Q is $\frac{1}{5}e^{\frac{3}{2}}$. [3]

The region R is enclosed by the graph of f , the x -axis, and the vertical lines through the maximum point P and the point of inflexion Q .



(d) Given that the area of R is 3, find the value of k . [7]

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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 **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 **Science Education: A Global Perspective** Ben Akpan, 2016-08-03 Science Education A Global

Perspective is global both in content and authorship Its 17 chapters by an assemblage of seasoned and knowledgeable science educators from many parts of the world seek to bring to the fore current developments in science education and their implications The book thus covers a wide range of topics in science education from various national and international perspectives These include the nature of science science and religion evolution curriculum and pedagogy context based teaching and learning science and national development socially responsible science education equitable access for women

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South African national bibliography ,1999 Classified list with author and title index *The Creative Enterprise of Mathematics Teaching Research* Bronislaw Czarnocha,William Baker,Olen Dias,Vrunda Prabhu,2016-07-28 The Creative Enterprise of Mathematics Teaching Research presents the results and methodology of work of the teaching research community of practice of the Bronx TR Team of the Bronx It has a twofold aim of impacting both teachers of Mathematics and researchers in Mathematics Education This volume can be used by teachers of mathematics who want to use research to reflect upon and to improve their teaching craft as well as by researchers who are interested in uncovering riches of classroom learning teaching for research investigations This book represents the results of a collaboration of instructors discussing their own instruction research analyzed through a conceptual framework obtained via the synthesis of creativity research and educational learning theories based upon the work of Piaget and Vygotsky The editors see an urgent need for creative synthesis of research and teaching an example of which is presented in the book Two central themes of the book are the methodology of TR NYCity model and creativity more precisely creativity of the Aha moment formulated by Arthur Koestler 1964 in a very profound but little known theory of bisociation exposed in his work The Act of Creation Incorporation of the theory of bisociation into classroom teaching of mathematics provides the key to enable students who may struggle with mathematics to engage their own creativity become involved in their learning process and thus reach their full potential of excellence Creativity in teaching remedial mathematics is teaching gifted students how to access their own giftedness

Educational Psychology Tony Cline,Anthea Gulliford,Susan Birch,2015-03-24 Educational Psychology Second Edition offers a comprehensive overview of how key advances in social developmental and cognitive psychology impact upon the role

of educational psychologists working today Written by leading researchers the book also explores controversies and dilemmas in both research and practice providing students with a balanced and cutting edge introduction to both the field and the profession Fully revised throughout the new edition is written to encourage students to integrate their understanding of core psychological disciplines as well as to consider what evidence based practice really means Organized into two broad sections related to learning and behaviour the book features a selection of vignettes from educational psychologists working in a range of contexts as well as tasks and scenarios to support a problem orientated approach to study By integrating both research and everyday practice the book is unique in engaging a critical appreciation of both the possibilities and limitations of educational psychology It is the ideal book for any student wishing to engage with this important and evolving field of study

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Inclusive Mathematics Education David Kollosche,Renato Marcone,Michel Knigge,Miriam Godoy Penteado,Ole Skovsmose,2019-03-25 The book provides an overview of state of the art research from Brazil and Germany in the field of inclusive mathematics education Originated from a research cooperation between two countries where inclusive education in mathematics has been a major challenge this volume seeks to make recent research findings available to the international community of mathematics teachers and researchers In the book the authors cover a wide variety of special needs that learners of mathematics may have in inclusive settings They present theoretical frameworks and methodological approaches for research and practice

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volume offers a vast array of topics ranging from the history of teaching to technological and literacy issues In each authoritative chapter the authors summarize the state of the field while providing conceptual overviews of critical topics related to research on teaching Each of the volume s 23 chapters is a canonical piece that will serve as a reference tool for the field The Handbook provides readers with an unaparalleled view of the current state of research on teaching across its multiple facets and related fields American Library Directory ,1980 *Arts & Humanities Citation Index* ,2000

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