

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]

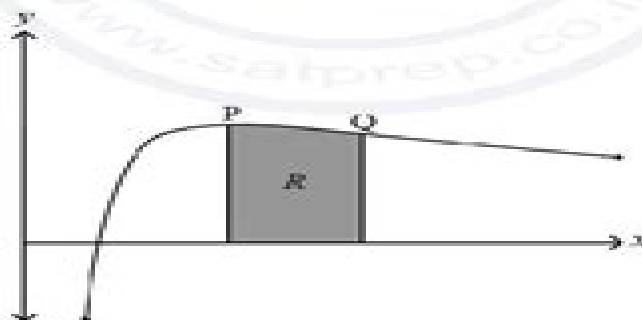
The graph of f has exactly one maximum point P .

- (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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SJ Ball



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Handbook of Research on Mathematics Teaching and Learning Douglas Grouws, 2006-11-01 Sponsored by the National Council of Teachers of Mathematics and written by leading experts in the field of mathematics education the Handbook is specifically designed to make important vital scholarship accessible to mathematics education professors graduate students educational researchers staff development directors curriculum supervisors and teachers The Handbook provides a framework for understanding the evolution of the mathematics education research field against the backdrop of well established conceptual historical theoretical and methodological perspectives It is an indispensable working tool for everyone interested in pursuing research in mathematics education as the references for each of the Handbook's twenty nine chapters are complete resources for both current and past work in that particular area

Handbook Of Financial Econometrics, Mathematics, Statistics, And Machine Learning (In 4 Volumes) Cheng Few Lee, John C Lee, 2020-07-30 This four volume handbook covers important concepts and tools used in the fields of financial econometrics mathematics statistics and machine learning Econometric methods have been applied in asset pricing corporate finance international finance options and futures risk management and in stress testing for financial institutions This handbook discusses a variety of econometric methods including single equation multiple regression simultaneous equation regression and panel data analysis among others It also covers statistical distributions such as the binomial and log normal distributions in light of their applications to portfolio theory and asset management in addition to their use in research regarding options and futures contracts In both theory and methodology we need to rely upon mathematics which includes linear algebra geometry differential equations Stochastic differential equation Ito calculus optimization constrained optimization and others These forms of mathematics have been used to derive capital market line security market line capital asset pricing model option pricing model portfolio analysis and others In recent times an increased importance has been given to computer technology in financial research Different computer languages and programming techniques are important tools for empirical research in finance Hence simulation machine learning big data and financial payments are explored in this handbook Led by Distinguished Professor Cheng Few Lee from Rutgers University this multi volume work integrates theoretical methodological and practical issues based on his years of academic and industry experience

Communist Chinese Scientific Abstracts United States. Joint Publications Research Service, 1966

Research in Progress United States. Army Research Office, 1991 Vols for 1977 consist of two parts Chemistry biological sciences engineering sciences metallurgy and materials science issued in the spring and Physics electronics mathematics geosciences issued in the fall

Matter Particled - Patterns, Structure And Dynamics: Selected Research Papers Of Yuval Ne'eman Remo Ruffini, Yosef Verbin, 2006-03-06 This unique volume

contains a selection of more than 80 of Yuval Ne'eman's papers which represent his huge contribution to a large number of aspects of theoretical physics. The works span more than four decades from unitary symmetry and quarks to questions of complexity in biological systems and evolution of scientific theories. In keeping with the major role Ne'eman has played in theoretical physics over the last 40 years, a collaboration of very distinguished scientists enthusiastically took part in this volume. Their commentary supplies a clear framework and background for appreciating Yuval Ne'eman's significant discoveries and pioneering contributions. Energy Research Abstracts, 1982

Learning and Teaching Early Math
 Douglas H. Clements, Julie Sarama, 2009-04-01 In this important new book for pre and in-service teachers, early math experts Douglas Clements and Julie Sarama show how learning trajectories help teachers become more effective professionals. By opening up new windows to seeing young children and the inherent delight and curiosity behind their mathematical reasoning, learning trajectories ultimately make teaching more joyous. They help teachers understand the varying level of knowledge and thinking of their classes and the individuals within them as key in serving the needs of all children. In straightforward, no-nonsense language, this book summarizes what is known about how children learn mathematics and how to build on what they know to realize more effective teaching practice. It will help teachers understand the learning trajectories of early mathematics and become quintessential professionals.

Tep Vol 29-N4 Teacher Education and Practice, 2016-10-11 Teacher Education and Practice, a peer-reviewed journal, is dedicated to the encouragement and the dissemination of research and scholarship related to professional education. The journal is concerned in the broadest sense with teacher preparation, practice and policy issues related to the teaching profession as well as being concerned with learning in the school setting. The journal also serves as a forum for the exchange of diverse ideas and points of view within these purposes. As a forum, the journal offers a public space in which to critically examine current discourse and practice as well as engage in generative dialogue. Alternative forms of inquiry and representation are invited, and authors from a variety of backgrounds and diverse perspectives are encouraged to contribute. Teacher Education Practice is published by Rowman Littlefield.

Resources in Education, 2000-10

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