

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]

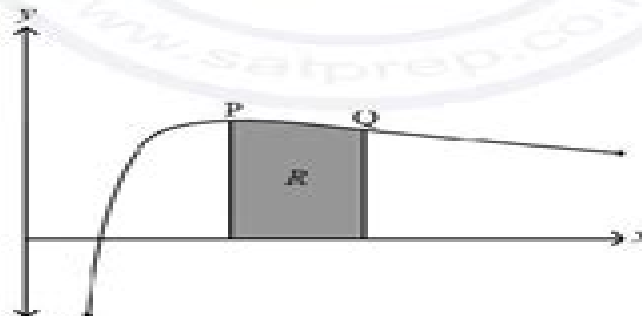
The graph of f has exactly one maximum point P .

- (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]

Maths Studies SI Past Paper 2013

**Ara S. Basmajian, Yair N. Minsky, Alan
W. Reid**



Maths Studies SI Past Paper 2013:

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South African national bibliography ,1999 Classified list with author and title index In the Tradition of Ahlfors-Bers, VII Ara S. Basmajian,Yair N. Minsky,Alan W. Reid,2017-08-17 The Ahlfors Bers Colloquia commemorate the mathematical legacy of Lars Ahlfors and Lipman Bers The core of this legacy lies in the fields of geometric function theory Teichm ller theory hyperbolic geometry and partial differential equations Today we see the influence of Ahlfors and Bers on algebraic geometry mathematical physics dynamics probability geometric group theory number theory and topology Recent years have seen a flowering of this legacy with an increased interest in their work This current volume contains articles on a wide variety of subjects that are central to this legacy These include papers in Kleinian groups classical Riemann surface theory Teichm ller theory mapping class groups geometric group theory and statistical mechanics *Journal of Developmental Education* ,2017 **Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971** New York Public Library. Research Libraries,1979 *Mathematical Reviews* ,2008 Physics Briefs ,1992 **The British Library General Catalogue of Printed Books, 1986 to 1987** British Library,1988 Union Catalog of Serials Currently Received in the Libraries of the University of Wisconsin--Madison University of Wisconsin--Madison. Libraries,1982

Government Reports Announcements & Index ,1976 The Rural Educator ,2012 **Promising Practices in Supporting Success for Indigenous Students** Organization for Economic Cooperation and Development,2017 Indigenous peoples are diverse within and across nations However the Indigenous peoples have experienced colonisation processes that have undermined Indigenous young people s access to their identity language and culture At the same time Indigenous children have not generally had access to the same quality of education that other children in their country have had access

to These two forces in combination have undermined the educational opportunities and outcomes of successive generations of Indigenous children and young people at times with catastrophic effect The six Canadian provinces and territories that participated in this study along with New Zealand and Queensland Australia are actively seeking to better meet the educational needs and aspirations of Indigenous students and their families The report seeks to identify promising strategies policies programmes and practices that support improved learning outcomes for Indigenous students and to build an empirical evidence base on Indigenous students in education The study investigates four areas in Indigenous education well being participation engagement and achievement in education These outcomes are inter connected and mutually reinforcing and each is essential for the success of every student *Canadian Journal of Physics* ,2014 **California Agriculture** ,2012 **Host Bibliographic Record for Boundwith Item Barcode 30112050443578 and Others** ,2013 **Reviews in Number Theory, as Printed in Mathematical Reviews, 1940 Through 1972, Volumes 1-44 Inclusive** William Judson LeVeque,1974 **Bell Laboratories Talks and Papers** Bell Telephone Laboratories. Libraries and Information Systems Center,1983 **International Aerospace Abstracts** ,1988

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