

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]

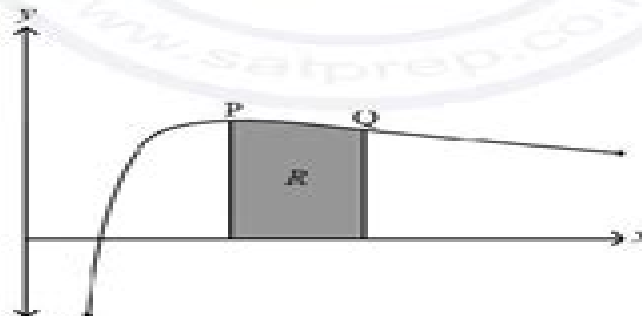
The graph of f has exactly one maximum point P .

- (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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Robert R. Redfield



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On Evaluating Curricular Effectiveness National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Mathematical Sciences Education Board, Committee for a Review of the Evaluation Data on the Effectiveness of NSF-Supported and Commercially Generated Mathematics Curriculum Materials, 2004-11-12 This book reviews the evaluation research literature that has accumulated around 19 K 12 mathematics curricula and breaks new ground in framing an ambitious and rigorous approach to curriculum evaluation that has relevance beyond mathematics The committee that produced this book consisted of mathematicians mathematics educators and methodologists who began with the following charge Evaluate the quality of the evaluations of the thirteen National Science Foundation NSF supported and six commercially generated mathematics curriculum materials Determine whether the available data are sufficient for evaluating the efficacy of these materials and if not Develop recommendations about the design of a project that could result in the generation of more reliable and valid data for evaluating such materials The committee collected reviewed and classified almost 700 studies solicited expert testimony during two workshops developed an evaluation framework established dimensions criteria for three methodologies content analyses comparative studies and case studies drew conclusions on the corpus of studies and made recommendations for future research Journal of Research of the National Bureau of Standards, 1973 *Economics Working Papers* John Fletcher, 1978 **Journal for Research in Mathematics Education**, 2008 *Advances in the Mathematical Sciences* Alyson Deines, Daniela Ferrero, Erica Graham, Mee Seong Im, Carrie Manore, Candice Price, 2018-10-31 Featuring research from the 2017 research symposium of the Association for Women in Mathematics this volume presents recent findings in pure mathematics and a range of advances and novel applications in fields such as engineering biology and medicine Featured topics include geometric group theory generalized iterated wreath products of cyclic groups and symmetric groups Conway Coxeter friezes and mutation and classroom experiments in teaching collegiate mathematics A review of DNA topology and a computational study of learning induced sequence reactivation during sharp wave ripples are also included in this volume Numerous illustrations and tables convey key results throughout the book This volume highlights research from women working in academia industry and government It is a helpful resource for researchers and graduate students interested in an overview of the latest research in mathematics *Scientific and Technical Aerospace Reports*, 1984 **Annals of Mathematics Studies** Kazuya Kato, 1940 *The American Mathematical Monthly*, 1922 Includes section Recent publications **Economics Working Papers: a Bibliography**, 1986 **English Mechanic and Mirror of Science and Art**, 1922 *The Electrician*, 1906 *Energy Research Abstracts*, 1979 Engineering, 1881 New Serial Titles, 1989 A union list of serials commencing publication after Dec 31 1949 British Books, 1912 **The Athenaeum**, 1873 **The Electrical Journal**, 1906 **Physics Briefs**, 1994 **Journal of Mathematical Sciences**, 1982 *Mining and Metallurgy*, 1928 Contains abstracts of professional

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