

Subject – Math AA(Higher Level)
Topic - Functions
Year - May 2021 – Nov 2022
Paper -1
Questions

Question 1

[Maximum mark: 5]

The functions f and g are defined such that $f(x) = \frac{x+3}{4}$ and $g(x) = 8x + 5$.

- (a) Show that $(g \circ f)(x) = 2x + 11$. [2]
(b) Given that $(g \circ f)^{-1}(a) = 4$, find the value of a . [3]

Question 2

[Maximum mark: 5]

The following diagram shows the graph of $y = f(x)$. The graph has a horizontal asymptote at $y = -1$. The graph crosses the x -axis at $x = -1$ and $x = 1$, and the y -axis at $y = 2$.



On the following set of axes, sketch the graph of $y = [f(x)]^2 + 1$, clearly showing any asymptotes with their equations and the coordinates of any local maxima or minima.

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Physics Briefs, 1988

Tools for Teaching Conceptual Understanding, Secondary Julie Stern, Krista Ferraro, Juliet Mohnkern, 2017-02-02 Students become experts and innovators through Concept Based teaching Innovators don't invent without a deep understanding of how the world works With this foundation they apply conceptual understanding to solve new problems We want our students to not only retain ideas but relate them to other things they encounter using each new situation to add nuance and sophistication to their thinking To do this they need conceptual understanding This book serves as a road map for Concept Based teaching Discover how to help students uncover conceptual relationships and transfer them to new situations Specifically teachers will learn Strategies for introducing conceptual learning to students Four lesson frameworks to help students uncover conceptual relationships How to assess conceptual understanding and How to differentiate concept based instruction Look no further For deep learning and innovative thinking this book is the place to start The authors tear down the false dichotomies of traditional vs innovative education and provide a practical toolkit for developing creativity and applying knowledge through Concept Based learning Every practitioner needs this book to juxtapose what worked well in the 20th Century with what is essential in the 21st Century and beyond Michael McDowell Superintendent Ross School District Ross CA While most good educators recognise the incredible value of teaching conceptually it is challenging The authors have created accessible practical baby steps for every teacher to use Dr Vincent Chan principal Fairview International School Kuala Lumpur Malaysia

Springer Handbook of Automation Shimon Y. Nof, 2023-06-16 This handbook incorporates new developments in automation It also presents a widespread and well structured conglomeration of new emerging application areas such as medical systems and health transportation security and maintenance service construction and retail as well as production or logistics The handbook is not only an ideal resource for automation experts but also for people new to this expanding field

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accept responsibility for its own decline while maintaining hope that resurrection is still possible The church as Canadians may know it might disappear but for Christians death has never been the end of the story Reviews in Partial Differential Equations, 1980-86, as Printed in Mathematical Reviews ,1988 **Computers and Their Role in the Physical Sciences** Sidney Fernbach,A. H. Taub,1970 Reviews in Global Analysis, 1980-86 as Printed in Mathematical Reviews American Mathematical Society,1988 **The Oxford English Dictionary** James Augustus Henry Murray, Henry Bradley,1975 A New English Dictionary on Historical Principles James Augustus Henry Murray,1933 *Science Citation Index* ,1994 Vols for 1964 have guides and journal lists *Children's Books in Print* R R Bowker Publishing,Bowker,1999-12

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