

**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.

# Answers Math Paper 2 Ib 2013

**Grace M. Burton, Harcourt Brace**



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Digital Transformation and Global Society Daniel A. Alexandrov, Alexander V. Boukhanovsky, Andrei V. Chugunov, Yury Kabanov, Olessia Koltsova, Ilya Musabirov, Sergei Pashakhin, 2022-01-25 This volume constitutes refereed proceedings of the 6th International Conference on Digital Transformation and Global Society DTGS 2021 held as a virtual event in June 2021 Due to the COVID 19 pandemic the conference was held online The 34 revised full papers and 4 short papers presented in the volume were carefully reviewed and selected from 95 submissions The papers are organized in topical sections on eSociety social informatics and digital inclusion issues ePolity e governance and regulation eCity smart cities and urban planning eHumanities digital education and research methods eCommunication online discourses and attitudes eEconomy challenges of the COVID 19 pandemic eEconomy e commerce research

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punches in calling the church to 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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