

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

Leonid Sokolinsky, Mikhail Zymbler



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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

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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**

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