

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

**Question 1**

[Maximum mark: 5]

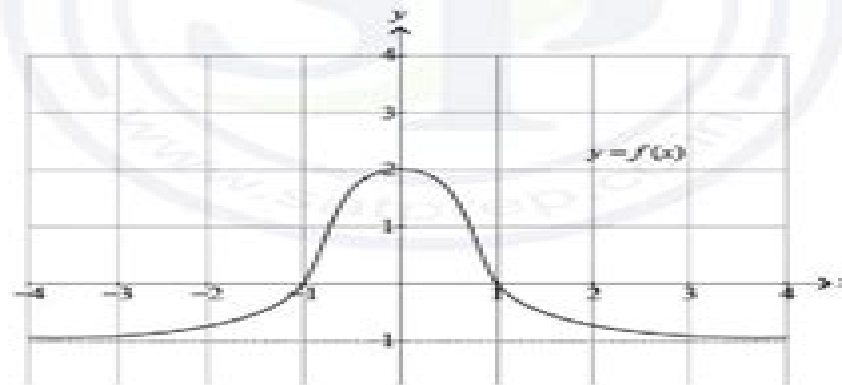
The functions  $f$  and  $g$  are defined such that  $f(x) = \frac{x+3}{4}$  and  $g(x) = 8x + 5$ .

- (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.

# Math Sl Ib Paper 1 2013

**Ivan B. Djordjevic**



## **Math Sl Ib Paper 1 2013:**

Formal Grammar Annie Foret, Glyn Morrill, Reinhard Muskens, Rainer Osswald, Sylvain Pogodalla, 2016-08-05 This book constitutes the refereed proceedings of the 20th and 21st International Conference on Formal Grammar 2015 and 2016 collocated with the European Summer School in Logic Language and Information in August 2015 2016 The 19 revised full papers presented together with 2 invited talks were carefully reviewed and selected from a total of 34 submissions The focus of papers are as follows Formal and computational phonology morphology syntax semantics and pragmatics Model theoretic and proof theoretic methods in linguistics Logical aspects of linguistic structure Constraint based and resource sensitive approaches to grammar Learnability of formal grammar Integration of stochastic and symbolic models of grammar Foundational methodological and architectural issues in grammar and linguistics Mathematical foundations of statistical approaches to linguistic analysis **Ebook: Life-Span Development** Santrock, 2016-09-16 Ebook Life Span Development

**Applied Mechanics Reviews**, 1966 **Physical-Layer Security and Quantum Key Distribution** Ivan B. Djordjevic, 2019-09-14 This textbook integrates the most advanced topics of physical layer security cryptography covert stealth communications quantum key distribution QKD and cyber security to tackle complex security issues After introducing the reader to various concepts and practices the author addresses how these can work together to target problems rather than treating them as separate disciplines This book offers students an in depth exposition on cryptography information theoretic approach to cryptography physical layer security covert stealth low probability of detection communications quantum information theory QKD and cyber security to mention few The goal is to provide a unified description of the most advanced topics related to i modern cryptography ii physical layer security iii QKD iv covert communications and v cyber security Each chapter is followed by a set of problems Also for readers to better understand the book an appendix covers all needed background Homework problems and lecture notes are available online The book does not require any prior knowledge or prerequisite material **Supporting Children's Well-Being During Early Childhood Transition to School** Tatalović Vorkapić, Sanja, LoCasale-Crouch, Jennifer, 2020-10-23 Life transitions differ concerning the intensity of the change and the intensity of the child's reaction to that change For most children the first and most significant transition is from the family home to an institution of early care and education which includes preschool These transitions can also include children's passage from kindergarten to elementary school However the intensity of the child's reaction is related to the size of the change that is happening and also to who or what is involved in that change and the importance a child attributes to that someone or something Supporting Children's Well Being During Early Childhood Transition to School is an essential scholarly publication that examines evidence based practices and approaches that fully support a child's well being during transition periods in early childhood It serves as a resource to rethink contemporary transition theoretical models research studies and applied practices Featuring a wide range of topics such as emotional competency language learners and

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