

Subject - Math AA(Standard 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: 14]

Let $f(x) = mx^2 - 2mx$, where $x \in \mathbb{R}$ and $m \in \mathbb{R}$. The line $y = mx - 9$ meets the graph of f at exactly one point.

(a) Show that $m = 4$. [6]

The function f can be expressed in the form $f(x) = 4(x-p)(x-q)$, where $p, q \in \mathbb{R}$.

(b) Find the value of p and the value of q . [2]

The function f can also be expressed in the form $f(x) = 4(x-h)^2 + k$, where $h, k \in \mathbb{R}$.

(c) Find the value of h and the value of k . [3]

(d) Hence find the values of x where the graph of f is both negative and increasing. [3]

Math Ib Sl 2012 Paper Tz1

Allison Paige Bruner



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IB Math SL Stella Carey,2014-08-01 The International Baccalaureate IB was founded in Geneva Switzerland in 1968 as a non profit educational foundation that endeavored to develop inquiring knowledgeable and caring young people who would go on to create a better and more peaceful world through intercultural understanding and respect What began as a single program for internationally mobile students preparing for college has grown into a series of programs for students up to age 19 Barron s is pleased to offer a brand new course review and exam preparation guide for the IB Mathematics SL exam The content of the book is based on the subject guide published by the International Baccalaureate Organization It covers all topics required for exams beginning in 2014 and includes A full length diagnostic test with markscheme and fully explained answers Study tips and exam strategies Topic review and practice for each strand of the IB Math SL curriculum including explanations and examples as well as problem sets with fully explained solutions Two full length practice exams with markschemes and fully explained answers This all encompassing book can also serve as a supplement to classroom instruction throughout the two year IB Math SL course a resource for the Internal Assessment project and a review resource during first year college math courses IB Mathematics SL in 80 Pages George Feretzakis,2019-07-20 This updated revision guide will be a valuable resource and reference for students assisting them to understand and learn the theory of IB Mathematics SL The guide aims to help the IB student of standard level by both revising the theory and going through some well chosen examples of the IB mathematics SL curriculum By presenting the theory that every IB student should know before taking any quiz test or exam this Revision Guide is designed to make the topics of IB mathematics SL both comprehensible and easy to grasp *IB Mathematics: Applications and Interpretation SL in 70 Pages* George Feretzakis,2019-07-16 This revision guide will be a valuable resource and reference for students assisting them to understand and learn the theory of IB Mathematics Applications and Interpretation Standard Level The Guide aims to help the IB student by both revising the theory and going through some well chosen examples of the new IB Mathematics Applications and Interpretation SL curriculum By presenting the theory that every IB student should know before taking any quiz test or exam this revision guide is designed to make the topics of IB Math Applications and Interpretation SL both comprehensible and easy to grasp **IB Mathematics Analysis & Approaches Potential Papers Standard Level** Dilan Wimalasena,2020-12-05 This book contains 4 exam practice papers and it is aimed at 2021 IB Mathematics examination for Standard level Each section contains 2 exam papers labeled as paper 1 paper 2 similar to the actual exam IB Math Studies Allison Paige Bruner,2014-08-01 The International Baccalaureate IB was founded in Geneva Switzerland in 1968 as a non profit educational foundation that endeavored to develop inquiring knowledgeable and caring young people who would go on to create a better and more peaceful world through intercultural understanding and respect What began as a single program for internationally mobile students preparing for college has grown into a series of programs for students up to age

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Written by an expert author team consisting of former IB chief examiners, senior examiners and assistant examiners, experienced IB workshop leaders and teachers with more than 160 years of combined teaching experience. *Mathematics for the IB Diploma: Analysis and approaches HL* Paul Fannon, Vesna Kadelburg, Ben Woolley, Stephen Ward, Huw Jones, 2021-11-19

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Standard Level for the IB Diploma Coursebook Caroline Meyrick, Kwame Dwamena, 2013-05-30. This completely new title is written to specifically cover the new IB Diploma Mathematical Studies syllabus. The significance of mathematics for practical applications is a prominent theme throughout this coursebook, supported with Theory of Knowledge, internationalism and application links to encourage an appreciation of the broader contexts of mathematics. Mathematical modelling is also a key feature. GDC tips are integrated throughout with a dedicated GDC chapter for those needing more support. Exam hints and IB exam style questions are provided within each chapter. Sample exam papers online can be tackled in exam style conditions for further exam preparation. Guidance and support for the internal assessment is also available, providing advice on good practice when writing the project. [Workbook: IB Diploma Math SL Applications Grades 11 - 12](#) Eran Levin, 2019-08-20. This is a student workbook for students taking the IB Math SL Applications and Interpretation FIRST EXAMS 2021. The workbook covers all chapters for both years. More info and free material can be found at <http://ibmathworkbooks.weebnode.es>. **Standard Level Mathematics, for the IB Diploma (Etext Access Code) (Pearson**

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