

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 1 Tz1

Allison Paige Bruner



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compound interest1 9 Financial applications of sequences and series CHAPTER 2 STATISTICS2 1 Introduction to statistics2 2 Frequency diagrams measures of central tendency2 3 Measures of dispersionCHAPTER 3 LOGIC3 1 Set theory 3 2 Logic CHAPTER 4 PROBABILITY4 1 ProbabilityCHAPTER 5 MATHEMATICAL MODELS5 1 Introduction to functions 5 2 Linear functions 5 3 Quadratic functions 5 4 Exponential functionsCHAPTER 6 TRIGONOMETRY AND GEOMETRY6 1 Definition of the Trigonometric functions6 2 Sine and Cosine Rule6 3 Trigonometric Ratios6 4 3D GeometryCHAPTER 7 CALCULUS7 1 Rate of change7 2 Definition of derivative7 3 Tangents and normals to functions7 4 Stationary points and function analysis7 5 Optimization problemsCHAPTER 8 STATISTICS8 1 Correlation8 2 Chi Squared8 3 Normal distributionANSWER KEYCHAPTER 1 ALGEBRA1 1 Types of numbers1 2 Interval notation1 3 Significant figures1 4 Scientific notation1 5 Error analysis 1 6 International system of units1 7 Currency conversion1 8 Sequences and Series and compound interest1 9 Financial applications of sequences and series CHAPTER 2 STATISTICS2 1 Introduction to statistics2 2 Frequency diagrams measures of central tendency2 3 Measures of dispersionCHAPTER 3 LOGIC3 1 Set theory 3 2 Logic CHAPTER 4 PROBABILITY4 1 ProbabilityCHAPTER 5 MATHEMATICAL MODELS5 1 Introduction to functions 5 2 Linear functions 5 3 Quadratic functions 5 4 Exponential functionsCHAPTER 6 TRIGONOMETRY AND GEOMETRY6 1 Definition of the Trigonometric functions6 2 Sine and Cosine Rule6 3 Trigonometric Ratios6 4 3D GeometryCHAPTER 7 CALCULUS7 1 Rate of change7 2 Definition of derivative7 3 Tangents and normals to functions7 4 Stationary points and function analysis7 5 Optimization problemsCHAPTER 8 STATISTICS8 1 Correlation8 2 Chi Squared8 3 Normal distribution *Mathematics 2012* Ibrahim Wazir,Tim Garry,2012-03 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 Workbook - IB Diploma Math SL Part 1 with Answer Key Eran Levin,2013-12-09 This is a student workbook for students taking the IB Math SL The workbook covers the first 3 chapters The rest are included in part 2 More info and free material can be found at <http://ibmathworkbooks.com> The index of the workbook is as follows CHAPTER 1 ALGEBRA1 1 Types of numbers1 2 Interval notation1 3 Rationalization1 4 Exponents and Logarithms1 5 Equations1 6 Equations with absolute value1 7 Binomial Theorem1 8 Sequences and SeriesCHAPTER 2 FUNCTIONS2 1 Introduction to functions2 2 Linear functions2 3 Quadratic Functions2 4 Transformations2 5 Simple Rational functions 2 6 Exponential functions 2 7 Logarithmic functions 2 8 Radical functions 2 9 Piecewise functions2 10 Composite functions 2 11 Inverse functions CHAPTER 3 TRIGONOMETRY3 1 Degrees and Radians3 2 Definition of the Trigonometric functions3 3 Trigonometric functions3 4 Sine and Cosine Rule3 5 Trigonometric Ratios3 6 Inverse Trigonometric functions3 7 Trigonometric equations ANSWER KEYCHAPTER 1 ALGEBRA1 1 Types of numbers1 2 Interval notation1 3 Rationalization1 4 Exponents and Logarithms1 5 Equations1 6 Equations with absolute value1 7 Binomial Theorem1 8 Sequences and SeriesCHAPTER 2 FUNCTIONS2 1 Introduction to functions2 2 Linear functions2 3 Quadratic Functions2 4

Transformations2 5 Simple Rational functions 2 6 Exponential functions 2 7 Logarithmic functions 2 8 Radical functions 2 9 Piecewise functions2 10 Composite functions 2 11 Inverse functions CHAPTER 3 TRIGONOMETRY3 1 Degrees and Radians3 2 Definition of the Trigonometric functions3 3 Trigonometric functions3 4 Sine and Cosine Rule3 5 Trigonometric Ratios3 6 Inverse Trigonometric functions3 7 Trigonometric equations3 8 3D Geometry [Workbook - IB Diploma Math SL Studies](#) Eran Levin,2013-04-15 This is a Student workbook for the IB Math SL STUDIES IB Diploma This workbook covers all the chapters and includes examples of all kinds More info and free material can be found at <http://ibmathworkbooks.weebnode.es> The index of the book is as follows CHAPTER 1 ALGEBRA1 1 Types of numbers1 2 Interval notation1 3 Significant figures1 4 Scientific notation1 5 Error analysis1 6 International system of units1 7 Currency conversion1 8 Sequences Series and compound interest1 9 Financial applications of sequences series CHAPTER 2 STATISTICS2 1 Introduction to statistics2 2 Frequency diagrams central tendency2 3 Measures of dispersionCHAPTER 3 LOGIC3 1 Set theory 3 2 Logic CHAPTER 4 PROBABILITY4 1 ProbabilityCHAPTER 5 MATHEMATICAL MODELS5 1 Introduction to functions 5 2 Linear functions 5 3 Quadratic functions 5 4 Exponential functionsCHAPTER 6 TRIGONOMETRY AND GEOMETRY6 1 Definition of the Trigonometric functions6 2 Sine and Cosine Rule6 3 Trigonometric Ratios6 4 3D GeometryCHAPTER 7 CALCULUS7 1 Rate of change7 2 Definition of derivative7 3 Tangents and normals to functions7 4 Stationary points and function analysis7 5 Optimization problemsCHAPTER 8 STATISTICS8 1 Correlation8 2 Chi Squared8 3 Normal distribution **Standard Level Mathematics, for the Ib Diploma (Etext Access Code) (Pearson Baccalaureate)** Ibrahim Wazir,T Carry,2018-02-04

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Table of Contents Math Ib Sl 2012 Paper 1 Tz1

1. Understanding the eBook Math Ib Sl 2012 Paper 1 Tz1
 - The Rise of Digital Reading Math Ib Sl 2012 Paper 1 Tz1
 - Advantages of eBooks Over Traditional Books
2. Identifying Math Ib Sl 2012 Paper 1 Tz1
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Math Ib Sl 2012 Paper 1 Tz1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Math Ib Sl 2012 Paper 1 Tz1
 - Personalized Recommendations
 - Math Ib Sl 2012 Paper 1 Tz1 User Reviews and Ratings
 - Math Ib Sl 2012 Paper 1 Tz1 and Bestseller Lists
5. Accessing Math Ib Sl 2012 Paper 1 Tz1 Free and Paid eBooks
 - Math Ib Sl 2012 Paper 1 Tz1 Public Domain eBooks
 - Math Ib Sl 2012 Paper 1 Tz1 eBook Subscription Services
 - Math Ib Sl 2012 Paper 1 Tz1 Budget-Friendly Options

6. Navigating Math Ib Sl 2012 Paper 1 Tz1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Math Ib Sl 2012 Paper 1 Tz1 Compatibility with Devices
 - Math Ib Sl 2012 Paper 1 Tz1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Math Ib Sl 2012 Paper 1 Tz1
 - Highlighting and Note-Taking Math Ib Sl 2012 Paper 1 Tz1
 - Interactive Elements Math Ib Sl 2012 Paper 1 Tz1
8. Staying Engaged with Math Ib Sl 2012 Paper 1 Tz1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Math Ib Sl 2012 Paper 1 Tz1
9. Balancing eBooks and Physical Books Math Ib Sl 2012 Paper 1 Tz1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Math Ib Sl 2012 Paper 1 Tz1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Math Ib Sl 2012 Paper 1 Tz1
 - Setting Reading Goals Math Ib Sl 2012 Paper 1 Tz1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Math Ib Sl 2012 Paper 1 Tz1
 - Fact-Checking eBook Content of Math Ib Sl 2012 Paper 1 Tz1
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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