

Full marks are not necessarily awarded for a correct answer with no working. Answers must be supported by working and/or explanations. In particular, solutions found from a graphic display calculator should be supported by suitable working, for example if graphs are used to find a solution, you should sketch these as part of your answer. Where an answer is incorrect, some marks may be given for a correct method, provided this is shown by written working. You are therefore advised to show all working.

Section A

Answer **all** questions in the boxes provided. Working may be continued below the lines, if necessary.

1. [Maximum mark: 6]

An amount of \$1000 is invested into a bank account at an interest rate of 1.5%, compounded annually.

- (a) Calculate the amount of money in the account after four years. [3]
- (b) Determine the number of years, n , after which the account first exceeds \$1300, where n is an integer. [3]

$$1000 \quad r = 0.015 \quad k = 1$$

$$a) \quad 1000 (1 + 0.015)^4 = 1061.36$$

$$b) \quad 1000 (1 + 0.015)^n = 1300$$

$$n = 17.621$$

$$n = 18$$

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M Planty



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IB World Schools Yearbook 2011 Wendy Bosberry-Scott, 2011 This yearbook is the official guide to schools offering the International Baccalaureate Diploma Middle Years and Primary Years programmes It tells you where the schools are and what they offer and provides up to date information about the IB programmes and the International Baccalaureate Organization

2010 Practice Examination for Use with the IB Diploma Programme, 2010 *Workbook - IB Diploma Math SL Part 2 with Answer Key* Eran Levin, 2014-09-01 This is a Student workbook for the IB Math SL IB Diploma part 2 with full answer key More info and free material can be found at <http://ibmathworkbooks.webnode.es> The index of the workbook is PART 1 CALCULUS 1 1 Rate of change 1 2 Definition of derivative 1 3 Graphing the derivative 1 4 Graphing the antiderivative 1 5 Tangents and normals to functions 1 6 Derivatives 1 7 Stationary points 1 8 Function analysis 1 9 Indefinite integration 1 10 Definite integration 1 11 Kinematics PART 2 VECTORS 2 1 Vectors 2 2 The dot product 2 3 Lines 2 4 Relative positions between lines PART 3 STATISTICS 3 1 Introduction to statistics 3 2 Frequency diagrams 3 3 Measures of dispersion 3 4 Correlation 3 5 Probability 3 6 Discrete random variables 3 7 Binomial distribution 3 8 Normal distribution

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Ib Mathematics SL in 80

Pages George Feretzakis,2018-02-14 This Revision Guide will be a valuable resource and reference for students assisting them to understand and learn the theory of IB mathematics Standard Level The Guide aims to help the IB student 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 math SL both comprehensible and easy to grasp

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just given the final results All these behaviours result in losing marks With these points in mind using proper and efficient methods and giving correct and complete responses to questions play a significant role in sitting for the test As a student it is very important to analyse what the examiners are testing you in their places For example a question worth four marks may be broken down as one mark for showing appropriate method or formula one mark for substituting the corresponding values into the formula one mark for working and one mark for finding correct value at the end In this case to obtain full marks at least four steps are necessary and one or two more steps are recommended to improve the chance of obtaining full marks In this book I summarise all the knowledge required for standard level mathematics for the IB diploma Some words are written in colour or bold to draw your attention where I think it is important or confusing Some pragmatic and efficient methods for tests are introduced by some examples where students often have trouble or make mistakes based on my teaching experience The questions from the papers in the last two years are taken as examples to show a detailed breakdown of marking including the reasons or explanations for each mark These real test questions may also help you to realise the importance of a section if you find more questions there In some examples a solution is given step by step for a non calculator question and a shortcut by a graphing calculator is also demonstrated since a similar question may appear on Paper 2 A textit graph calculator is used for demonstration because I think it is a little more complicated compared with the Casio calculators The relevant pre knowledge is also given in Chapter 1 as a brief revision All in all solving questions is just like giving your viewpoints by showing your reasons logically but in a mathematical way William Zhang PhD in Physics PhD in Electrical Engineering

Mathematics for the IB Diploma: Analysis and approaches SL Paul Fannon, Stephen Ward, Ben Woolley, Vesna Kadelburg, Huw Jones, 2019-09-30 Developed in cooperation with the International Baccalaureate Enable students to construct communicate and justify correct mathematical arguments with a range of activities and examples of maths in the real world Engage and excite students with examples and photos of maths in the real world plus inquisitive starter activities to encourage their problem solving skills Build mathematical thinking with our Toolkit and mathematical exploration chapter along with our new toolkit feature of questions investigations and activities Develop understanding with key concepts and applications integrated throughout along with TOK links for every topic Prepare your students for assessment with worked examples and extended essay support Check understanding with review exercise midway and at the end of the coursebook Follows the new 2019 IB Guide for Mathematics analysis and approaches Standard Level Available in the series Mathematics for the IB Diploma Analysis and approaches SL Student Book ISBN 9781510462359 Student Book Boost eBook ISBN 9781398334304 Exam Practice Workbook Mathematics for the IB Diploma Analysis and approaches SL 9781398321182 Exam Practice Workbook Mathematics for the IB Diploma Analysis and approaches SL Boost eBook 9781398342316 Mathematics for the IB Diploma Analysis and approaches HL Student Book ISBN 9781510462366 Student Book Boost eBook ISBN 9781398334311 Exam Practice Workbook Mathematics for the IB

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