

# Mark Scheme SL Math Functions All Non Calculator 66 pages

30 marks  
30 minutes

**Question 1** (10 marks)

Integrate by partial decomposition:

$$\frac{1}{x^2(x^2+1)} = \frac{A}{x} + \frac{B}{x^2} + \frac{Cx+D}{x^2+1}$$

Find values of  $A, B, C$  and  $D$ .

**Question 2** (10 marks)

Integrate by partial decomposition:

$$\frac{1}{x^2(x^2+1)} = \frac{A}{x} + \frac{B}{x^2} + \frac{Cx+D}{x^2+1}$$

Find values of  $A, B, C$  and  $D$ .

**Question 3** (10 marks)

Integrate by partial decomposition and find:

$$\int \frac{1}{x^2(x^2+1)} dx$$

Give your answer in the form  $\frac{a}{x} + \frac{b}{x^2} + \frac{c}{x^2+1} + d \ln|x^2+1| + e$ .

**Question 4** (10 marks)

Integrate by partial decomposition:

$$\frac{1}{x^2(x^2+1)} = \frac{A}{x} + \frac{B}{x^2} + \frac{Cx+D}{x^2+1}$$

Find values of  $A, B, C$  and  $D$ .

**Question 5** (10 marks)

Integrate by partial decomposition and find:

$$\int \frac{1}{x^2(x^2+1)} dx$$

Give your answer in the form  $\frac{a}{x} + \frac{b}{x^2} + \frac{c}{x^2+1} + d \ln|x^2+1| + e$ .

# 2013 Mathematics SI Mark Scheme

**Didier Musso**



### **2013 Mathematics SI Mark Scheme:**

*Macdonald Theory and Beyond* Daniel Orr, Joshua Jeishing Wen, 2025-03-27 This volume contains the proceedings of the AMS Special Session on Macdonald Theory and Beyond Combinatorics Geometry and Integrable Systems held virtually on March 19 20 2022 The articles in this volume represent a number of recent developments in the theory of Macdonald polynomials while highlighting some of its many connections to other areas of mathematics An important common thread throughout the volume is the role of combinatorial formulas for Macdonald polynomials themselves as well as operations on them arising from rich additional structures The articles of Haglund Mandelshtam and Romero concern the type A Macdonald polynomials which remain a major focus of the subject due to the depth of their combinatorial theory and the power of their specific applications For arbitrary type Macdonald polynomials a new combinatorial formula with pseudo crystal structure is presented in the article of Lenart Naito Nomoto and Sagaki Finally the articles of Saied and Wen take up two important new directions in the subject the SSV polynomials arising from the study of special functions on metaplectic groups and the wreath Macdonald polynomials associated with certain symplectic resolutions

**Computational Sciences - Modelling, Computing and Soft Computing** Ashish Awasthi, Sunil Jacob John, Satyananda Panda, 2021-07-27 This book constitutes revised and selected papers of the First International Conference on Computational Sciences Modelling

Computing and Soft Computing held in Kozhikode Kerala India in September 2020 The 15 full papers and 6 short papers presented were thoroughly reviewed and selected from the 150 submissions They are organized in the topical sections on computing soft computing general computing modelling

*A Time Series Approach to Option Pricing* Christophe Chorro, Dominique Guégan, Florian Ielpo, 2014-12-04 The current world financial scene indicates at an intertwined and interdependent relationship between financial market activity and economic health This book explains how the economic messages delivered by the dynamic evolution of financial asset returns are strongly related to option prices The Black Scholes framework is introduced and by underlining its shortcomings an alternative approach is presented that has emerged over the past ten years of academic research an approach that is much more grounded on a realistic statistical analysis of data rather than on ad hoc tractable continuous time option pricing models The reader then learns what it takes to understand and implement these option pricing models based on time series analysis in a self contained way The discussion covers modeling choices available to the quantitative analyst as well as the tools to decide upon a particular model based on the historical datasets of financial returns The reader is then guided into numerical deduction of option prices from these models and illustrations with real examples are used to reflect the accuracy of the approach using datasets of options on equity indices

**Proceedings of Third International Conference on Advances in Computer Engineering and Communication Systems** A. Brahmananda Reddy, S. Nagini, Valentina E. Balas, K. Srujan Raju, 2023-03-17 This book includes original peer reviewed research articles from International Conference on Advances in Computer Engineering and

Communication Systems ICACECS 2022 held in VNR Vignana Jyothy Institute of Engineering and Technology VNR VJIEET Hyderabad Telangana India during August 11 12 2022 The book focuses on Smart Innovations in Mezzanine Technologies Data Analytics Networks and Communication Systems enlargements and reviews on the advanced topics in artificial intelligence machine learning data mining and big data computing knowledge engineering semantic Web cloud computing Internet of Things cybersecurity communication systems and distributed computing and smart systems     **Derivative-free DIRECT-type Global Optimization** Linas Stripinis, Remigijus Paulavičius, 2023-11-27 After providing an in depth introduction to derivative free global optimization with various constraints this book presents new original results from well known experts on the subject A primary focus of this book is the well known class of deterministic DIRECT Dividing RECTangle type algorithms This book describes a new set of algorithms derived from newly developed partitioning sampling and selection approaches in the box and generally constrained global optimization including extensions to multi objective optimization DIRECT type optimization algorithms are discussed in terms of fundamental principles potential and boundaries of their applicability The algorithms are analyzed from various perspectives to offer insight into their main features This explains how and why they are effective at solving optimization problems As part of this book the authors also present several techniques for accelerating the DIRECT type algorithms through parallelization and implementing efficient data structures by revealing the pros and cons of the design challenges involved A collection of DIRECT type algorithms described and analyzed in this book is available in DIRECTGO a MATLAB toolbox on GitHub Lastly the authors demonstrate the performance of the algorithms for solving a wide range of global optimization problems with various constraints ranging from a few to hundreds of variables Additionally well known practical problems from the literature are used to demonstrate the effectiveness of the developed algorithms It is evident from these numerical results that the newly developed approaches are capable of solving problems with a wide variety of structures and complexity levels Since implementations of the algorithms are publicly available this monograph is full of examples showing how to use them and how to choose the most efficient ones depending on the nature of the problem being solved Therefore many specialists students researchers engineers economists computer scientists operations researchers and others will find this book interesting and helpful     **Securing the Connected World** Sabu M Thampi, Tony Thomas, Preetam Mukherjee, 2025-04-12 Securing the Connected World Exploring Emerging Threats and Innovative Solutions offers a detailed examination of the growing challenges and cutting edge solutions in the realms of IoT Internet of Things and IoD Internet of Drones The book is structured to provide a balanced blend of foundational knowledge and advanced research insights making it an essential resource for researchers industry professionals and students Covering both established concepts and the latest advancements it addresses the pressing need for robust security frameworks in today's interconnected digital ecosystems The first section of the book lays a strong groundwork for understanding IoT security exploring areas such as attack modelling intrusion detection fraud prevention

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**Wearable Wireless Devices** Qammer H. Abbasi,Hadi Heidari,Akram Alomainy,2020-03-18 With the growing interest in the use of technology in daily life the potential for using wearable wireless devices across multiple segments e g healthcare sports child monitoring military emergency consumer electronics etc is rapidly increasing Multibillion wearable sensors are predicted to be in use by 2025 with over 30% of them being new types of sensors that are only beginning to emerge This book will focus on wireless wearable and implantable systems flexible textile based electronics bio electromagnetics antennas and propagation radio frequency RF circuits sensors security of wearables and implantable systems nano bio communication and electromagnetic sensing

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*Mathematical Studies SL Exam and Practice Guide* ,2013 *Mathematics* Michael Hease,Mark Humphries (matematik.),Christopher J. Sangwin,Ngoc Vo,2019

**Maths SL 5th Edition** Rory McAuliffe,2017-12 **Advanced Level Pure Mathematics, S.L. Green** Ka Hung Yeung,1983 **Mathematical Studies (SL)** Fabio Cirrito,2002 *MATHS APPLIED SL* McAuliffe,2018-01-02

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