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Senior Secondary Mathematics

Module 2: Algebra and Calculus

Authors: Chan Mung Hung
Leung Shui Wah
Mui Wai Kwong
Kwok Pui Man

Consultant: Allan H. K. Yuen

$$\sin(A+B) = \frac{1}{2}(\sin(A+B) + \sin(A-B))$$

$$\lim_{x \rightarrow 0} \frac{x^2 - 1}{x} = 1$$

$$\frac{d}{dx}(x^n) = nx^{n-1}$$

$$\frac{d}{dx}(f(x) \pm g(x)) = f'(x) \pm g'(x)$$

$$\frac{d}{dx} \left(\frac{f(x)}{g(x)} \right) = \frac{f'(x)g(x) - f(x)g'(x)}{(g(x))^2}$$

$$\frac{1 + \tan^2 \theta}{1 + \cot^2 \theta} = \sec^2 \theta$$

$$\sum_{k=1}^n k = 1 + 2 + 3 + \dots + n$$

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New Trends in Geometric Analysis Antonio Alarcón, Vicente Palmer, César Rosales, 2023-10-18 The aim of this book is to provide an overview of some of the progress made by the Spanish Network of Geometric Analysis REAG by its Spanish acronym since its born in 2007 REAG was created with the objective of enabling the interchange of ideas and the knowledge transfer between several Spanish groups having Geometric Analysis as a common research line This includes nine groups at Universidad Aut noma de Barcelona Universidad Aut noma de Madrid Universidad de Granada Universidad Jaume I de Castell n Universidad de Murcia Universidad de Santiago de Compostela and Universidad de Valencia The success of REAG has been substantiated with regular meetings and the publication of research papers obtained in collaboration between the members of different nodes On the occasion of the 15th anniversary of REAG this book aims to collect some old and new contributions of this network to Geometric Analysis The book consists of thirteen independent chapters all of them authored by current members of REAG The topics under study cover geometric flows constant mean curvature surfaces in Riemannian and sub Riemannian spaces integral geometry potential theory and Riemannian geometry among others Some of these chapters have been written in collaboration between members of different nodes of the network and show the fruitfulness of the common research atmosphere provided by REAG The rest of the chapters survey a research line or present recent progresses within a group of those forming REAG Surveying several research lines and offering new directions in the field the volume is addressed to researchers including postdocs and PhD students in Geometric Analysis in the large

New Trends in Analysis and Interdisciplinary Applications Pei Dang, Min Ku, Tao Qian, Luigi G. Rodino, 2017-04-18 This book presents a collection of papers from the 10th ISAAC Congress 2015 held in Macau China The papers prepared by respected international experts address recent results in Mathematics with a special focus on Analysis By structuring the content according to the various mathematical topics the volume offers specialists and non specialists alike an excellent source of information on the state of the art in Mathematical Analysis and its

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Dutta, Ljubiša D. R. Kočinac, Hari M. Srivastava, 2019-08-23 This book explores several important aspects of recent developments in the interdisciplinary applications of mathematical analysis MA and highlights how MA is now being employed in many areas of scientific research Each of the 23 carefully reviewed chapters was written by experienced experts in respective field and will enrich readers understanding of the respective research problems providing them with sufficient background to understand the theories methods and applications discussed The book's main goal is to highlight the latest trends and advances equipping interested readers to pursue further research of their own Given its scope the book will especially benefit graduate and PhD students researchers in the applied sciences educators and engineers with an interest in recent developments in the interdisciplinary applications of mathematical analysis *New Trends in the History and Philosophy of Mathematics* Tinne Hoff Kjeldsen, Stig Andur Pedersen, Lise Mariane Sonne-Hansen, 2004 This book is a collection of papers presented at the conference New Trends in the History and Philosophy of Mathematics held at the University of Roskilde Denmark 6-8 August 1998 The purpose of the meeting was to present some of the new ideas on the study of mathematics its character and the nature of its development During the last decades work in history and philosophy of mathematics has led to several new original views on mathematics Both new methods and angles of study have been introduced and old views of say the nature of mathematical theories and proofs have been challenged For instance disciplines as ethnohistorical studies of mathematics and the sociology of mathematics have resulted in several new insights and classical historians of mathematics are also experimenting with new perspectives In a similar way philosophy of mathematics has witnessed rather deep changes Classical foundational studies have been challenged by new broader perspectives The aim was to provide a forum within which historians of mathematics philosophers and mathematicians could exchange ideas and discuss different new approaches in the history and philosophy of mathematics The book includes papers by Joan Richards Henk J M Bos Donald MacKenzie Arthur Jaffe Jody Azzouni and Paulus Gerdes It also includes an extended introduction

New Trends In Mathematical Physics: In Honour Of The Salvatore Rionero 70th Birthday - Proceedings Of The International Meeting Paolo Fergola, Florinda Capone, Maurizio Gentile, Gabriele Guerriero, 2005-01-04 This proceedings volume widely surveys new problems methods and techniques in mathematical physics The 22 original papers featured are of great interest to various areas of applied mathematics They are presented in honour of Professor Salvatore Rionero 70th

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