Understanding Pure Maths

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this text is clearly set out with an excellent combination of clear examples and explanations and plenty of practice material ideal for supporting students who are working alone each chapter concludes with a selection of exam style questions giving students lots of practice for the real thing

a classic single volume textbook popular for its direct and straightforward approach understanding pure mathematics starts by filling the gap between gcse and a level and builds on this base for candidates taking either single subject of double subject a level

pure mathematics for advanced level second edition is written to meet the needs of the student studying for the general certificate of education at advanced level the text is organized into 22 chapters chapters 1 5 cover topics in algebra such as operations with real numbers the binomial theorem and the quadratic function and the quadratic equation the principles methods and techniques in calculus trigonometry and co ordinate geometry are provided as well two new chapters have been added numerical methods and vectors mathematics students will find this book extremely useful

further pure maths 1 was written to provide thorough preparation for the revised 2004 specification based on the first editions this series help you to prepare for the new exams

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a concise introduction to pure mathematics second edition provides a robust bridge between high school and university mathematics expanding upon basic topics in ways that will interest first year students in mathematics and related fields and stimulate further study divided into 22 short chapters this textbook offers a selection of exercises ranging from routine calculations to quite challenging problems the author discusses real and complex numbers and explains how these concepts are applied in solving natural problems he introduces topics in analysis geometry number theory and combinatorics what s new in the second edition contains extra material concerning prime numbers forming the basis for data encryption explores secret codes one of today s most spectacular applications of pure mathematics discusses permutations and their importance in many topics in discrete mathematics the textbook allows for the design of courses with various points of emphasis because it can be divided into four fairly independent sections related to an introduction to number systems and analysis theory of the integers an introduction to discrete mathematics and functions relations and countability

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