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Mathematical Plums

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conceptual support for the student studying for the qualifying exam in real variables Beginning with the foundations of the subject the text moves rapidly but thoroughly through basic topics like completeness convergence sequences series compactness topology and the like All the basic examples like the Cantor set the Weierstrass nowhere differentiable function the Weierstrass approximation theory the Baire category theorem and the Ascoli Arzela theorem are treated The book contains over 100 examples and most of the basic proofs It illustrates both the theory and the practice of this sophisticated subject Graduate students studying for the qualifying exams will find this book to be a concise focused and informative resource Professional mathematicians who need a quick review of the subject or need a place to look up a key fact will find this book to be a useful resource too

Scalar, Vector, and Matrix Mathematics Dennis S. Bernstein, 2018-02-27 The essential reference book on matrices now fully updated and expanded with new material on scalar and vector mathematics Since its initial publication this book has become the essential reference for users of matrices in all branches of engineering science and applied mathematics In this revised and expanded edition Dennis Bernstein combines extensive material on scalar and vector mathematics with the latest results in matrix theory to make this the most comprehensive current and easy to use book on the subject Each chapter describes relevant theoretical background followed by specialized results Hundreds of identities inequalities and facts are stated clearly and rigorously with cross references citations to the literature and helpful comments Beginning with preliminaries on sets logic relations and functions this unique compendium covers all the major topics in matrix theory such as transformations and decompositions polynomial matrices generalized inverses and norms Additional topics include graphs groups convex functions polynomials and linear systems The book also features a wealth of new material on scalar inequalities geometry combinatorics series integrals and more Now more comprehensive than ever **Scalar Vector and Matrix Mathematics** includes a detailed list of symbols a summary of notation and conventions an extensive bibliography and author index with page references and an exhaustive subject index Fully updated and expanded with new material on scalar and vector mathematics Covers the latest results in matrix theory Provides a list of symbols and a summary of conventions for easy and precise use Includes an extensive bibliography with back referencing plus an author index

A Guide to Topology Steven G. Krantz, 2009-09-24 A concise introduction to topology to ground students in the basic ideas and techniques of the subject Linear Algebra Problem Book Paul R. Halmos, 1995 Takes the student step by step from basic axioms to advanced concepts 164 problems each with hints and full solutions **Charming Proofs** Claudi Alsina, Roger B. Nelsen, 2010 A collection of remarkable proofs that are exceptionally elegant and thus invite the reader to enjoy the beauty of mathematics **Mathematics and the Aesthetic** Nathalie Sinclair, William Higginson, 2007-12-28 A majority of the chapters in this book first saw the light of day as talks at a conference organised and held at Queen's University in Kingston Ontario Canada in April 2001 This small invitational meeting tellingly entitled *Beauty and the Mathematical Beast* brought together a range of academics interested in and committed to exploring connections

between mathematics and aesthetics The enthusiastic response of participants at this gathering encouraged the presenters to expand upon their initial contributions and persuaded the organisers to recruit further chapters in order to bring a greater balance to the whole The timing of this event was not arbitrary The preceding decade had seen a resurgence in serious writing dealing with deeper relations between mathematics and science and the beautiful In many ways we the editors of this volume found these contributions to the literature were revisiting and drawing on themes that had been prominent over two thousand five hundred years ago in certain writings of the Pythagoreans While not intending to offer a historical reappraisal of these ancient thinkers here we have none the less chosen to invoke this profound interweaving of the mathematical and the aesthetic to which this reputedly secretive philosophical sect was extremely attuned This book is divided into three sections comprising three chapters each each with its own short introduction discussing the particular chapters within

The Last Recreations Martin Gardner, 2020-10-06 Martin Gardner's Mathematical Games columns in Scientific American inspired and entertained several generations of mathematicians and scientists Gardner in his crystal clear prose illuminated corners of mathematics especially recreational mathematics that most people had no idea existed His playful spirit and inquisitive nature invite the reader into an exploration of beautiful mathematical ideas along with him These columns were both a revelation and a gift when he wrote them no one before Gardner had written about mathematics like this They continue to be a marvel This is the original 1997 edition and contains columns published from 1980-1986

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