3 Determinants

3.1 SOLUTIONS

Notes: Some exercises in this section provide practice in computing determinants, while others allow the student to discover the properties of determinants which will be studied in the next section. Determinants are developed through the cofactor expansion, which is given in Theorem 1. Exercises 33–36 in this section provide the first step in the inductive proof of Theorem 3 in the next section.

1. Expanding along the first row:

$$\begin{vmatrix} 3 & 0 & 4 \\ 2 & 3 & 2 \\ 0 & 5 & -1 \end{vmatrix} = 3\begin{vmatrix} 3 & 2 \\ 5 & -1 \end{vmatrix} - 0\begin{vmatrix} 2 & 2 \\ 0 & -1 \end{vmatrix} + 4\begin{vmatrix} 2 & 3 \\ 0 & 5 \end{vmatrix} = 3(-13) + 4(10) = 1$$

Expanding along the second column:

$$\begin{vmatrix} 3 & 0 & 4 \\ 2 & 3 & 2 \\ 0 & 5 & -1 \end{vmatrix} = (-1)^{1+2} \cdot 0 \begin{vmatrix} 2 & 2 \\ 0 & -1 \end{vmatrix} + (-1)^{2+2} \cdot 3 \begin{vmatrix} 3 & 4 \\ 0 & -1 \end{vmatrix} + (-1)^{3+2} \cdot 5 \begin{vmatrix} 3 & 4 \\ 2 & 2 \end{vmatrix} = 3(-3) - 5(-2) = 1$$

2. Expanding along the first row:

$$\begin{vmatrix} 0 & 5 & 1 \\ 4 & -3 & 0 \\ 2 & 4 & 1 \end{vmatrix} = 0\begin{vmatrix} -3 & 0 \\ 4 & 1 \end{vmatrix} - 5\begin{vmatrix} 4 & 0 \\ 2 & 1 \end{vmatrix} + 1\begin{vmatrix} 4 & -3 \\ 2 & 4 \end{vmatrix} = -5(4) + 1(22) = 2$$

Expanding along the second column:

$$\begin{vmatrix} 0 & 5 & 1 \\ 4 & -3 & 0 \\ 2 & 4 & 1 \end{vmatrix} = (-1)^{1+2} \cdot 5 \begin{vmatrix} 4 & 0 \\ 2 & 1 \end{vmatrix} + (-1)^{2+2} \cdot (-3) \begin{vmatrix} 0 & 1 \\ 2 & 1 \end{vmatrix} + (-1)^{3+2} \cdot 4 \begin{vmatrix} 0 & 1 \\ 4 & 0 \end{vmatrix} = -5(4) - 3(-2) - 4(-4) = 2$$

3. Expanding along the first row:

$$\begin{vmatrix} 2 & -4 & 3 \\ 3 & 1 & 2 \\ 1 & 4 & -1 \end{vmatrix} = 2\begin{vmatrix} 1 & 2 \\ 4 & -1 \end{vmatrix} - (-4)\begin{vmatrix} 3 & 2 \\ 1 & -1 \end{vmatrix} + 3\begin{vmatrix} 3 & 1 \\ 1 & 4 \end{vmatrix} = 2(-9) + 4(-5) + (3)(11) = -5$$

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Elementary Linear Algebra, Students Solutions Manual Stephen Andrilli,David Hecker,2010-03-13 Elementary Linear Algebra Students Solutions Manual   *Elementary Linear Algebra, Students Solutions Manual (e-only)* Stephen Andrilli,David Hecker,2010-04-24   Combinatorial Convexity and Algebraic Geometry Günter Ewald,2012-12-06 The aim of this book is to provide an introduction for students and nonspecialists to a fascinating relation between combinatorial geometry and algebraic geometry as it has developed during the last two decades This relation is known as the theory of toric varieties or sometimes as torus embeddings Chapters I IV provide a self contained introduction to the theory of convex poly topes and polyhedral sets and can be used independently of any applications to algebraic geometry Chapter V forms a link between the first and second part of the book Though its material belongs to combinatorial convexity its definitions and theorems are motivated by toric varieties Often they simply translate algebraic geometric facts into combinatorial language Chapters VI VIII introduce toric va rieties in an elementary way but one which may not for specialists be the most elegant In considering toric varieties many of the general notions of algebraic geometry occur and they can be dealt with in a concrete way Therefore Part 2 of the book may also serve as an introduction to algebraic geometry and preparation for farther reaching texts about this field The prerequisites for both parts of the book are standard facts in linear algebra including some facts on rings and fields and calculus Assuming those all proofs in Chapters I VII are complete with one exception IV Theorem 5 1 In Chapter VIII we use a few additional prerequisites with references from appropriate texts   **A Course in Arithmetic** J-P. Serre,2012-12-06 This book is divided into two parts The first one is purely algebraic Its objective is the classification of quadratic forms over the field of rational numbers Hasse Minkowski theorem It is achieved in Chapter IV The first three chapters contain some preliminaries quadratic reciprocity law p adic fields Hilbert symbols Chapter V applies the preceding results to integral quadratic forms of discriminant I These forms occur in various questions modular functions differential topology finite groups The second part Chapters VI and VII uses analytic methods holomor phic functions Chapter VI gives the proof of the theorem on arithmetic progressions due to Dirichlet this theorem is used at a critical point in the first part Chapter Ill no 2 2 Chapter VII deals with modular forms and in particular with theta functions Some of the quadratic forms of Chapter V reappear here The two parts correspond to lectures given in 1962 and 1964 to second year students atthe Ecole Normale Superieure A redaction of these lectures in the form of duplicated notes was made by J J Sansuc Chapters I IV and J P Ramis and G Ruget Chapters VI VII They were very useful to me I extend here my gratitude to their authors   *Theory of Complex Functions* Reinhold Remmert,2012-12-06 A lively and vivid look at the material from function theory including the residue calculus supported by examples and practice exercises throughout There is also ample discussion of the historical evolution of the theory biographical sketches of important contributors and citations in the original language with their English translation from their classical works Yet the book is far from being a mere history of

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integral points on varieties points in orbits torsion points on periodic and preperiodic abelian varieties points ofrational maps There are a variety of topics covered in this volume but inevitably the choice reflects the author s tastes and interests Many related areas that also fall under the heading ofarithmetic or algebraic dynamics have been omitted in order to keep the book to a manageable length A brief list of some of these omitted topics may be found in the introduction Online Resources The reader will find additonal material references and errata at http www math brown ectu jhs ADSHome html Acknowledgments The author has consulted a great many sources in writing this book Every attempt has been made to give proper attribution for all but the most standard results   <u>Iteration of Rational Functions</u> Alan F. Beardon,2000-09-27 This book focuses on complex analytic dynamics which dates from 1916 and is currently attracting considerable interest The text provides a comprehensive well organized treatment of the foundations of the theory of iteration of rational functions of a complex variable The coverage extends from early memoirs of Fatou and Julia to important recent results and methods of Sullivan and Shishikura Many details of the proofs have not appeared in print before   **Introduction to Elliptic Curves and Modular Forms** Neal I. Koblitz,2012-12-06 This textbook covers the basic properties of elliptic curves and modular forms with emphasis on certain connections with number theory The ancient congruent number problem is the central motivating example for most of the book My purpose is to make the subject accessible to those who find it hard to read more advanced or more algebraically oriented treatments At the same time I want to introduce topics which are at the forefront of current research Down to earth examples are given in the text and exercises with the aim of making the material readable and interesting to mathematicians in fields far removed from the subject of the book With numerous exercises and answers included the textbook is also intended for graduate students who have completed the standard first year courses in real and complex analysis and algebra Such students would learn applications of techniques from those courses thereby solidifying their under standing of some basic tools used throughout mathematics Graduate stu dents wanting to work in number theory or algebraic geometry would get a motivational example oriented introduction In addition advanced under graduates could use the book for independent study projects senior theses and seminar work   **Modular Functions and Dirichlet Series in Number Theory** Tom M. Apostol,2012-12-06 This is the second volume of a 2 volume textbook which evolved from a course Mathematics 160 offered at the California Institute of Technology during the last 25 years The second volume presupposes a background in number theory com parable to that provided in the first volume together with a knowledge of the basic concepts of complex analysis Most of the present volume is devoted to elliptic functions and modular functions with some of their number theoretic applications Among the major topics treated are Rademacher s convergent series for the partition function Lehner s congruences for the Fourier coefficients of the modular functionj r and Hecke s theory of entire forms with multiplicative Fourier coefficients The last chapter gives an account of Bohr s theory of equivalence of general Dirichlet series Both volumes of this work emphasize classical aspects of a subject which in recent years has undergone a

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in the way oftechnical background Most of this material is classical in the sense that is was dis covered during the nineteenth century and earlier but it is also modern because it is intimately related to important research going on at the present time

Number Theory Henri Cohen,2008-12-17 This book deals with several aspects of what is now called explicit number theory The central theme is the solution of Diophantine equations i e equations or systems of polynomial equations which must be solved in integers rational numbers or more generally in algebraic numbers This theme in particular is the central motivation for the modern theory of arithmetic algebraic geometry In this text this is considered through three of its most basic aspects The local aspect global aspect and the third aspect is the theory of zeta and L functions This last aspect can be considered as a unifying theme for the whole subject

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