

COMMUTATIVE ALGEBRA EXERCISES SOLUTIONS

COMMUTATIVE ALGEBRA EXERCISES SOLUTIONS COMMUTATIVE ALGEBRA EXERCISES SOLUTIONS This document provides solutions to a selection of exercises in commutative algebra. The exercises are chosen to cover a wide range of topics from basic definitions to more advanced concepts. The solutions are detailed and aim to provide a thorough understanding of the underlying concepts. This document is organized into sections, each focusing on a specific topic in commutative algebra. Each section contains a brief overview of the topic followed by a selection of solved exercises.

Sections

- 1 Rings and Ideals** Overview: This section introduces the basic definitions of rings and ideals along with fundamental properties. Exercises: Prove that the set of even integers forms an ideal in the ring of integers. Determine whether the ideal generated by $x^2 + 1$ is a prime ideal in the polynomial ring $\mathbb{Z}[x]$. Show that the intersection of two ideals is an ideal. Find all the ideals of the ring $\mathbb{Z}/6\mathbb{Z}$.
- 2 Modules and Homomorphisms** Overview: This section introduces the concept of modules, a generalization of vector spaces over fields. Homomorphisms between modules are also discussed. Exercises: Determine whether the set of all polynomials with even coefficients forms a submodule of the module of all polynomials over the ring of integers. Show that the set of all matrices of the form $\begin{pmatrix} a & b \\ 0 & c \end{pmatrix}$ where a, b, c are real numbers forms a module over the ring of real numbers. Prove that the homomorphism theorem holds for modules. Determine the kernel and image of the homomorphism $\phi: \mathbb{Z}^2 \rightarrow \mathbb{Z}$ defined by $\phi(a, b) = 2a + 3b$.
- 3 Localization and Quotient Rings** Overview: This section explores the concepts of localization and quotient rings, which provide tools for constructing new rings from existing ones. Exercises: Find the localization of the ring of integers at the prime ideal (2) . Show that the quotient ring $\mathbb{Z}[x]/(x^2 + 1)$ is isomorphic to $\mathbb{Z}[\sqrt{-1}]$. Prove that the localization of a ring at a prime ideal is a local ring. Determine the units in the localization of the ring of integers at the prime ideal (5) .
- 4 Noetherian Rings and Modules** Overview: This section introduces the concept of Noetherian rings and modules, which are crucial for studying ideals and submodules. Exercises: Show that the ring of integers is a Noetherian ring. Prove that any finitely generated module over a Noetherian ring is Noetherian. Demonstrate that the Hilbert Basis Theorem holds for polynomial rings over Noetherian rings. Find a ring that is not Noetherian.
- 5 Integral Domains and Field Extensions** Overview: This section delves into integral domains and field extensions, which are central to algebraic number theory and algebraic geometry. Exercises: Show that the ring of Gaussian integers is an integral domain. Determine the degree of the field extension $\mathbb{Q}(\sqrt{-2})/\mathbb{Q}$. Prove that any finite integral domain is a field. Find the minimal polynomial of $\sqrt{3}/2$ over the field of rational numbers.
- 6 Dimension Theory** Overview: This section introduces the notion of dimension for rings and modules, which measures their complexity in terms of chains of ideals or submodules. Exercises: Calculate the Krull dimension of the ring of integers. Determine the dimension of the polynomial ring $\mathbb{C}[x, y]$. Prove that the dimension of a Noetherian ring is finite. Show that the dimension of a module is less than or equal to the dimension of the ring over which it is defined.
- 7**

PRIMARY DECOMPOSITION AND ASSOCIATED PRIMES OVERVIEW This section explores primary decomposition a powerful tool for understanding ideals in commutative rings and the concept of associated primes Exercises Find a primary decomposition of the ideal $x^2 xy$ in the polynomial ring $\mathbb{C}[x, y]$ Determine the associated primes of the ideal $x^2 xy$ in $\mathbb{C}[x, y]$ Prove that the radical of a primary ideal is a prime ideal Show that any ideal in a Noetherian ring has a primary decomposition 8 UNIQUE FACTORIZATION DOMAINS AND DEDEKIND DOMAINS OVERVIEW This section discusses the concept of unique factorization domains (UFDs) which generalize the familiar factorization of integers into primes and Dedekind domains a class of rings with important properties in algebraic number theory Exercises Prove that the polynomial ring $\mathbb{C}[x]$ is a UFD Show that the ring of integers of a quadratic field is a Dedekind domain Find the prime factorization of the ideal 2 in the ring of integers of the quadratic field $\mathbb{Q}(\sqrt{5})$ Determine whether the ring $\mathbb{Z}[\sqrt{3}]$ is a UFD 9 MODULES OVER PRINCIPAL IDEAL DOMAINS OVERVIEW This section focuses on modules over principal ideal domains (PIDs) which have a rich structure and play a significant role in linear algebra Exercises Classify all finitely generated modules over the ring of integers Prove that any finitely generated module over a PID is a direct sum of cyclic modules Determine the invariant factors of the module $\mathbb{Z}^6 \oplus \mathbb{Z}^{12}$ Find the Smith normal form of the matrix $\begin{pmatrix} 2 & 4 & 6 & 8 \end{pmatrix}$ over the ring of integers 10 APPLICATIONS OF COMMUTATIVE ALGEBRA OVERVIEW This section explores various applications of commutative algebra in other areas of mathematics including algebraic geometry number theory and coding theory 4 Exercises Use Hilbert's Nullstellensatz to show that the ideal $x^2y^2 + 1$ in $\mathbb{C}[x, y]$ defines the unit circle in the complex plane Apply the Chinese Remainder Theorem to solve the system of congruences $x \equiv 1 \pmod{2}$, $x \equiv 2 \pmod{3}$, $x \equiv 3 \pmod{5}$ Use the theory of Gröbner bases to find the solution to the system of equations $x^2 + y^2 = 1$, $x + y = 1$ Note The selection of exercises and their level of difficulty will vary depending on the target audience and the scope of the course This document provides a general framework for structuring a collection of commutative algebra exercise solutions

MATRIX ALGEBRA: EXERCISES AND SOLUTIONS BASIC ABSTRACT ALGEBRA: EXERCISES AND SOLUTIONS EXERCISES IN ALGEBRA ALGEBRAICAL EXERCISES AND PROBLEMS: WITH ELLIPTICAL SOLUTIONS ALGEBRAICAL EXERCISES AND PROBLEMS: WITH ELLIPTICAL SOLUTIONS: ALSO AN APPENDIX ON FACTORS CHALLENGING PROBLEMS IN ALGEBRA GEOMETRIC EXERCISES FOR ALGEBRAIC SOLUTIONS ALGEBRA FOR THE USE OF SCHOOLS AND COLLEGES. [WITH] ANSWERS TO THE EXERCISES THE AMERICAN MATHEMATICAL MONTHLY McGRAW-HILL'S CONQUERING THE NEW GRE MATH ALGEBRA A CLASSIFIED CATALOGUE OF EDUCATIONAL WORKS IN USE IN THE UNITED KINGDOM AND ITS DEPENDENCIES IN 1887 ... A COMPLETE ALGEBRA TO ACCOMPANY RAY'S SERIES OF MATHEMATICS SPECIAL LISTS. MATHEMATICS A CLASSIFIED CATALOGUE OF ... EDUCATION WORKS IN USE IN THE UNITED KINGDOM AND ITS DEPENDENCIES INTERMEDIATE ALGEBRA WITH EARLY FUNCTIONS AND GRAPHING THE CIRCLE OF THE SCIENCES WORKS RELATING TO MATHEMATICS THE PUBLIC SCHOOLS YEAR BOOK SOLUTIONS MANUAL FOR LANG'S LINEAR ALGEBRA DAVID A. HARVILLE MOHAMMED HICHAM MORTAD GEORGE EDWARD ATWOOD HUGH MCCOLL HUGH M'COLL (B.A.) ALFRED S. POSAMENTIER GEORGE WILLIAM MYERS WILLIAM THOMSON (M.A., B.Sc.) ROBERT E. MOYER GEORGE CHRYSTAL GEORGE W. SMITH CORNELL UNIVERSITY LIBR UNITED KINGDOM MARGARET L. LIAL ENCYCLOPAEDIAS CORNELL UNIVERSITY LIBRARY RAMI SHAKARCHI MATRIX ALGEBRA: EXERCISES AND SOLUTIONS BASIC ABSTRACT ALGEBRA: EXERCISES AND SOLUTIONS EXERCISES IN ALGEBRA ALGEBRAICAL EXERCISES AND PROBLEMS: WITH ELLIPTICAL SOLUTIONS ALGEBRAICAL EXERCISES AND PROBLEMS: WITH ELLIPTICAL SOLUTIONS: ALSO AN APPENDIX ON FACTORS CHALLENGING

PROBLEMS IN ALGEBRA GEOMETRIC EXERCISES FOR ALGEBRAIC SOLUTION ALGEBRA FOR THE USE OF SCHOOLS AND COLLEGES. [WITH] ANSWERS TO THE EXERCISES THE AMERICAN MATHEMATICAL MONTHLY McGRAW-HILL'S CONQUERING THE NEW GRE MATH ALGEBRA A CLASSIFIED CATALOGUE OF EDUCATIONAL WORKS IN USE IN THE UNITED KINGDOM AND ITS DEPENDENCIES IN 1887 ... A COMPLETE ALGEBRA TO ACCOMPANY RAY'S SERIES OF MATHEMATICS SPECIAL LISTS. MATHEMATICS A CLASSIFIED CATALOGUE OF ... EDUCATION WORKS IN USE IN THE UNITED KINGDOM AND ITS DEPENDENCIES INTERMEDIATE ALGEBRA WITH EARLY FUNCTIONS AND GRAPHING THE CIRCLE OF THE SCIENCES WORKS RELATING TO MATHEMATICS THE PUBLIC SCHOOLS YEAR BOOK SOLUTIONS MANUAL FOR LANG'S LINEAR ALGEBRA DAVID A. HARVILLE MOHAMMED HICHEM MORTAD GEORGE EDWARD ATWOOD HUGH MCCOLL HUGH M'COLL (B.A.) ALFRED S. POSAMENTIER GEORGE WILLIAM MYERS WILLIAM THOMSON (M.A., B.Sc.) ROBERT E. MOYER GEORGE CHRYSTAL GEORGE W. SMITH CORNELL UNIVERSITY LIBR UNITED KINGDOM MARGARET L. LIAL ENCYCLOPAEDIAS CORNELL UNIVERSITY. LIBRARY RAMI SHAKARCHI

THIS BOOK COMPRISES WELL OVER THREE HUNDRED EXERCISES IN MATRIX ALGEBRA AND THEIR SOLUTIONS THE EXERCISES ARE TAKEN FROM MY EARLIER BOOK MATRIX ALGEBRA FROM A STATISTICIAN'S PERSPECTIVE THEY HAVE BEEN RESTATED AS NECESSARY TO MAKE THEM COMPREHENSIBLE INDEPENDENTLY OF THEIR SOURCE TO FURTHER INSURE THAT THE RESTATED EXERCISES HAVE THIS STAND ALONE PROPERTY I HAVE INCLUDED IN THE FRONT MATTER A SECTION ON TERMINOLOGY AND ANOTHER ON NOTATION THESE SECTIONS PROVIDE DEFINITIONS DESCRIPTIONS COMMENTS OR EXPLANATORY MATERIAL PERTAINING TO CERTAIN TERMS AND NOTATIONAL SYMBOLS AND CONVENTIONS FROM MATRIX ALGEBRA FROM A STATISTICIAN'S PERSPECTIVE THAT MAY BE UNFAMILIAR TO A NONREADER OF THAT BOOK OR THAT MAY DIFFER IN GENERALITY OR OTHER RESPECTS FROM THOSE TO WHICH HE SHE IS ACCUSTOMED FOR EXAMPLE THE SECTION ON TERMINOLOGY INCLUDES AN ENTRY FOR SCALAR AND ONE FOR MATRIX THESE ARE STANDARD TERMS BUT THEIR USE HEREIN AND IN MATRIX ALGEBRA FROM A STATISTICIAN'S PERSPECTIVE IS RESTRICTED TO REAL NUMBERS AND TO RECTANGULAR ARRAYS OF REAL NUMBERS WHEREAS IN VARIOUS OTHER PRESENTATIONS A SCALAR MAY BE A COMPLEX NUMBER OR MORE GENERALLY A MEMBER OF A FIELD AND A MATRIX MAY BE A RECTANGULAR ARRAY OF SUCH ENTITIES

THIS BOOK IS MAINLY INTENDED FOR FIRST YEAR UNIVERSITY STUDENTS WHO UNDERTAKE A BASIC ABSTRACT ALGEBRA COURSE AS WELL AS INSTRUCTORS IT CONTAINS THE BASIC NOTIONS OF ABSTRACT ALGEBRA THROUGH SOLVED EXERCISES AS WELL AS A TRUE OR FALSE SECTION IN EACH CHAPTER EACH CHAPTER ALSO CONTAINS AN ESSENTIAL BACKGROUND SECTION WHICH MAKES THE BOOK EASIER TO USE

OVER 300 UNUSUAL PROBLEMS RANGING FROM EASY TO DIFFICULT INVOLVING EQUATIONS AND INEQUALITIES DIOPHANTINE EQUATIONS NUMBER THEORY QUADRATIC EQUATIONS LOGARITHMS MORE DETAILED SOLUTIONS AS WELL AS BRIEF ANSWERS FOR ALL PROBLEMS ARE PROVIDED

BE READY FOR THE MATHEMATICS SECTIONS OF THE GRE GENERAL TEST SCHEDULED TO BE REVISED IN AUGUST 2011 McGRAW HILL'S CONQUERING THE NEW GRE MATH OFFERS YOU INTENSIVE REVIEW FOR EVERY KIND OF GRE MATH QUESTION WITHIN EACH TOPIC SOLVED PROBLEMS OF GRADUALLY INCREASING DIFFICULTY HELP YOU BUILD YOUR PROBLEM SOLVING SKILLS EXERCISES SHOW HOW EACH MATH CONCEPT IS TESTED ON THE GRE FULL LENGTH GRE MATH SECTIONS PROVIDE PRACTICE WITH QUESTIONS JUST LIKE THOSE ON THE REAL TEST FEATURES COMPLETE COVERAGE OF THE NEW MATH QUESTION TYPES SCHEDULED TO BE INTRODUCED IN AUGUST 2011 INTENSIVE DRILL AND PRACTICE TO IMPROVE YOUR MATH SKILLS TO GET INTO THE GRADUATE PROGRAM OF YOUR CHOICE SAMPLE

GRE MATH QUESTIONS BUILD YOUR TEST TAKING CONFIDENCE EXPERTISE FROM AN AUTHOR WHO SPECIALIZES IN PROVIDING INSTRUCTION TO STUDENTS WHOSE MATH SKILLS ARE WEAK OR RUSTY TOPICS INCLUDE THE GRE QUANTITATIVE REASONING SECTION THE MATH YOU NEED TO REVIEW HOW THE QUESTIONS ARE ASKED GRE QUANTITATIVE COMPARISON GRE PROBLEM SOLVING MULTIPLE CHOICE GRE DATA INTERPRETATION GRE NUMERIC ENTRY QUESTIONS GRE MATHEMATICS REVIEW NUMBER PROPERTIES ARITHMETIC COMPUTATION ALGEBRA GEOMETRY GRE MATH PRACTICE TESTS GRE MATH PRACTICE TEST 1 GRE MATH PRACTICE TEST 2 GRE MATH PRACTICE TEST 3

THIS SOLUTIONS MANUAL FOR LANG S UNDERGRADUATE ANALYSIS PROVIDES WORKED OUT SOLUTIONS FOR ALL PROBLEMS IN THE TEXT THEY INCLUDE ENOUGH DETAIL SO THAT A STUDENT CAN FILL IN THE INTERVENING DETAILS BETWEEN ANY PAIR OF STEPS

AS RECOGNIZED, ADVENTURE AS WITH EASE AS EXPERIENCE ROUGHLY LESSON, AMUSEMENT, AS CAPABLY AS PACT CAN BE GOTTEN BY JUST CHECKING OUT A EBOOK **COMMUTATIVE ALGEBRA EXERCISES SOLUTIONS** PLUS IT IS NOT DIRECTLY DONE, YOU COULD UNDERTAKE EVEN MORE AS REGARDS THIS LIFE, ON THE ORDER OF THE WORLD. WE OFFER YOU THIS PROPER AS CAPABLY AS EASY EXAGGERATION TO ACQUIRE THOSE ALL. WE GIVE COMMUTATIVE ALGEBRA EXERCISES SOLUTIONS AND NUMEROUS BOOK COLLECTIONS FROM FICTIONS TO SCIENTIFIC RESEARCH IN ANY WAY. IN THE MIDDLE OF THEM IS THIS COMMUTATIVE ALGEBRA EXERCISES SOLUTIONS THAT CAN BE YOUR PARTNER.

1. WHERE CAN I PURCHASE COMMUTATIVE ALGEBRA EXERCISES SOLUTIONS BOOKS? BOOKSTORES: PHYSICAL BOOKSTORES LIKE BARNES & NOBLE, WATERSTONES, AND INDEPENDENT LOCAL STORES. ONLINE RETAILERS: AMAZON, BOOK DEPOSITORY, AND VARIOUS ONLINE BOOKSTORES PROVIDE A WIDE

SELECTION OF BOOKS IN PRINTED AND DIGITAL FORMATS.

2. WHAT ARE THE DIVERSE BOOK FORMATS AVAILABLE? WHICH KINDS OF BOOK FORMATS ARE CURRENTLY AVAILABLE? ARE THERE MULTIPLE BOOK FORMATS TO CHOOSE FROM? HARDCOVER: ROBUST AND LONG-LASTING, USUALLY PRICIER. PAPERBACK: LESS COSTLY, LIGHTER, AND MORE PORTABLE THAN HARDCOVERS. E-BOOKS: DIGITAL BOOKS ACCESSIBLE FOR E-READERS LIKE KINDLE OR THROUGH PLATFORMS SUCH AS APPLE BOOKS, KINDLE, AND GOOGLE PLAY BOOKS.
3. WHAT'S THE BEST METHOD FOR CHOOSING A COMMUTATIVE ALGEBRA EXERCISES SOLUTIONS BOOK TO READ? GENRES: THINK ABOUT THE GENRE YOU PREFER (FICTION, NONFICTION, MYSTERY, SCI-FI, ETC.). RECOMMENDATIONS: ASK FOR ADVICE FROM FRIENDS, PARTICIPATE IN BOOK CLUBS, OR BROWSE THROUGH ONLINE REVIEWS AND SUGGESTIONS. AUTHOR: IF YOU LIKE A SPECIFIC AUTHOR, YOU MIGHT ENJOY MORE OF THEIR WORK.
4. TIPS FOR PRESERVING COMMUTATIVE ALGEBRA EXERCISES SOLUTIONS BOOKS: STORAGE: STORE THEM AWAY FROM DIRECT SUNLIGHT AND IN A DRY SETTING.
5. HANDLING: PREVENT FOLDING PAGES, UTILIZE BOOKMARKS, AND HANDLE THEM WITH CLEAN HANDS. CLEANING: OCCASIONALLY DUST THE COVERS AND PAGES GENTLY.
6. CAN I BORROW BOOKS WITHOUT BUYING THEM? LOCAL LIBRARIES: REGIONAL LIBRARIES OFFER A WIDE RANGE OF BOOKS FOR BORROWING. BOOK SWAPS: COMMUNITY BOOK EXCHANGES OR WEB PLATFORMS WHERE PEOPLE EXCHANGE BOOKS.
7. HOW CAN I TRACK MY READING PROGRESS OR MANAGE MY BOOK COLLECTION? BOOK TRACKING APPS: LIBRARYTHING ARE POPULAR APPS FOR TRACKING YOUR READING PROGRESS AND MANAGING BOOK COLLECTIONS. SPREADSHEETS: YOU CAN CREATE YOUR OWN SPREADSHEET TO TRACK BOOKS READ, RATINGS, AND OTHER DETAILS.
8. WHAT ARE COMMUTATIVE ALGEBRA EXERCISES SOLUTIONS AUDIOBOOKS, AND WHERE CAN I FIND THEM? AUDIOBOOKS: AUDIO RECORDINGS OF BOOKS, PERFECT FOR LISTENING WHILE COMMUTING OR MULTITASKING. PLATFORMS: GOOGLE PLAY BOOKS OFFER A WIDE SELECTION OF AUDIOBOOKS.
9. HOW DO I SUPPORT AUTHORS OR THE BOOK

INDUSTRY? BUY Books: PURCHASE BOOKS FROM AUTHORS OR INDEPENDENT BOOKSTORES. REVIEWS: LEAVE REVIEWS ON PLATFORMS LIKE GOODREADS. PROMOTION: SHARE YOUR FAVORITE BOOKS ON SOCIAL MEDIA OR RECOMMEND THEM TO FRIENDS.

9. ARE THERE BOOK CLUBS OR READING COMMUNITIES I CAN JOIN? LOCAL CLUBS: CHECK FOR LOCAL BOOK CLUBS IN LIBRARIES OR COMMUNITY CENTERS. ONLINE COMMUNITIES: PLATFORMS LIKE GOODREADS HAVE VIRTUAL BOOK CLUBS AND DISCUSSION GROUPS.
10. CAN I READ COMMUTATIVE ALGEBRA EXERCISES SOLUTIONS BOOKS FOR FREE? PUBLIC DOMAIN BOOKS: MANY CLASSIC BOOKS ARE AVAILABLE FOR FREE AS THEY'RE IN THE PUBLIC DOMAIN.

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