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Quick Info: I am an Assistant Teaching Professor of Mathematics at Northeastern University. My office is 571 Lake Hall, (617)-373-2710. In Fall 2020, I am teaching two sections of Math 2321 (Calculus 3 for Science and Engineering) and the graduate algebra course Math 5111 (Algebra 1).; In Spring 2021, I am teaching two sections of Math 2321 (Calculus 3 for Science and Engineering) and Math ...

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The course will follow the presentation in Dummit and Foote's "Abstract Algebra" (3th edition), and you are highly encouraged to purchase this book since it is an excellent general reference for algebra. Here are approximate correspondences between the notes and textbook: Notes ch1: Dummit/Foote 0.1-0.3 + 9.1-9.5 + 7.1-7.3

[Math 6441: Algebra I - Homepage - Northeastern University](#)

Abstract Algebra (3rd edition), by David S. Dummit and Richard M. Foote is the book of reference

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Illini Hall 7, TR 9:30-10:50am. Instructor: Rebecca Tramel. Office Hours: Illini Hall 241 Tuesdays 11-12, Wednesday 3-4, or by appointment. Text: Abstract Algebra (3rd Edition) by Dummit and Foote.

[Math 418: Abstract Algebra II - University of Illinois at](#)

Abstract Algebra (Math 500 Spring 2020 Homework 1 Solutions As always, we will only be collecting the problems in Section 2. If you get stuck on these problems, work on ... (Dummit & Foote 1.1.23). Suppose that $x^2Gand \text{ } x^j = n < 1$. If $n = stfor \text{ } s,t \in Z^+$, show that $\text{ } x^s = t$. Solution.

[Abstract Algebra | Math 500 Spring 2020 Homework 1](#)

Solutions to Abstract Algebra (Dummit and Foote 3e) Chapter 1 : Group Theory Jason Rosendale jason.rosendale@gmail.com February 11, 2012 This work was done as an undergraduate student: if you really dont understand something in one of these proofs, it is very possible that it doesnt make sense because its wrong.

This text for a second course in linear algebra, aimed at math majors and graduates, adopts a novel approach by banishing determinants to the end of the book and focusing on understanding the structure of linear operators on vector spaces. The author has taken unusual care to motivate concepts and to simplify proofs. For example, the book presents - without having defined determinants - a clean proof that every linear operator on a finite-dimensional complex vector space has an eigenvalue. The book starts by discussing vector spaces, linear independence, span, basics, and dimension. Students are introduced to inner-product spaces in the first half of the book and shortly thereafter to the finite- dimensional spectral theorem. A variety of interesting exercises in each chapter helps students understand and manipulate the objects of linear algebra. This second edition features new chapters on diagonal matrices, on linear functionals and adjoints, and on the spectral theorem; some sections, such as those on self-adjoint and normal operators, have been entirely rewritten; and hundreds of minor improvements have been made throughout the text.

· Group Theory · Ring Theory · Modules and Vector Spaces · Field Theory and Galois Theory · An Introduction to Commutative Rings, Algebraic Geometry, and Homological Algebra · Introduction to the Representation Theory of Finite Groups

Accessible but rigorous, this outstanding text encompasses all of the topics covered by a typical course in elementary abstract algebra. Its easy-to-read treatment offers an intuitive approach, featuring informal discussions followed by thematically arranged exercises. This second edition features additional exercises to improve student familiarity with applications. 1990 edition.

Considered a classic by many, A First Course in Abstract Algebra is an in-depth introduction to abstract algebra. Focused on groups, rings and fields, this text gives students a firm foundation for more specialized work by emphasizing an understanding of the nature of algebraic structures.

This elementary presentation exposes readers to both the process of rigor and the rewards inherent in taking an axiomatic approach to the study of functions of a real variable. The aim is to challenge and improve mathematical intuition rather than to verify it. The philosophy of this book is to focus attention on questions which give analysis its inherent fascination. Each chapter begins with the discussion of some motivating examples and concludes with a series of questions.

This open access textbook welcomes students into the fundamental theory of measure, integration, and real analysis. Focusing on an accessible approach, Axler lays the foundations for further study by promoting a deep understanding of key results. Content is carefully curated to suit a single course, or two-semester sequence of courses, creating a versatile entry point for graduate studies in all areas of pure and applied mathematics. Motivated by a brief review of Riemann integration and its deficiencies, the text begins by immersing students in the concepts of measure and integration. Lebesgue measure and abstract measures are developed together, with each providing key insight into the main ideas of the other approach. Lebesgue integration links into results such as the Lebesgue Differentiation Theorem. The development of products of abstract measures leads to Lebesgue measure on \mathbb{R}^n . Chapters on Banach spaces, L_p spaces, and Hilbert spaces showcase major results such as the Hahn–Banach Theorem, Hölder 's Inequality, and the Riesz Representation Theorem. An in-depth study of linear maps on Hilbert spaces culminates in the Spectral Theorem and Singular Value Decomposition for compact operators, with an optional interlude in real and complex measures. Building on the Hilbert space material, a chapter on Fourier analysis provides an invaluable introduction to Fourier series and the Fourier transform. The final chapter offers a taste of probability. Extensively class tested at multiple universities and written by an award-winning mathematical expositor, Measure, Integration & Real Analysis is an ideal resource for students at the start of their journey into graduate mathematics. A prerequisite of elementary undergraduate real analysis is assumed; students and instructors looking to reinforce these ideas will appreciate the electronic Supplement for Measure, Integration & Real Analysis that is freely available online.

This is the most current textbook in teaching the basic concepts of abstract algebra. The author finds that there are many students who just memorise a theorem without having the ability to apply it to a given problem. Therefore, this is a hands-on manual, where many typical algebraic problems are provided for students to be able to apply the theorems and to actually practice the methods they have learned. Each chapter begins with a statement of a major result in Group and Ring Theory, followed by problems and solutions. Contents: Tools and Major Results of Groups; Problems in Group Theory; Tools and Major Results of Ring Theory; Problems in Ring Theory; Index.

This is a gentle introduction to the vocabulary and many of the highlights of elementary group theory. Written in an informal style, the material is divided into short sections, each of which deals with an important result or a new idea. Includes more than 300 exercises and approximately 60 illustrations.

Abstract Algebra: Theory and Applications is an open-source textbook that is designed to teach the principles and theory of abstract algebra to college juniors and seniors in a rigorous manner. Its strengths include a wide range of exercises, both computational and theoretical, plus many non-trivial applications. The first half of the book presents group theory, through the Sylow theorems, with enough material for a semester-long course. The second half is suitable for a second semester and presents rings, integral domains, Boolean algebras, vector spaces, and fields, concluding with Galois Theory.

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