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Abstract Algebra An Inquiry Based

Emphasizing active learning, Abstract Algebra: An Inquiry-Based Approach not only teaches abstract algebra but also provides a deeper understanding of what mathematics is, how it is done, and how mathematicians think. The book can be used in both rings-first and groups-first abstract algebra courses.

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I have many "abstract algebra" books but this is the best because of the Inquiry learning method upon which it is based which is very rewarding. The text is very well structured and the linking between the different topics is very well specified.

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Abstract Algebra: An Inquiry Based Approach - 1st Edition ...

1.1 What is Abstract Algebra? Abstract algebra is the subject area of mathematics that studies algebraic structures, such as groups, rings, fields, modules, vector spaces, and algebras. This course is an introduc-tion to abstract algebra. We will spend most of our time studying groups. Group theory

An Inquiry-Based Approach to Abstract Algebra

Exercises from An Inquiry Based Approach to Abstract Algebra Heather Moore June 15, 2020 1. Chapter 4: Subgroups and Isomorphisms Exercise 4.15 The following diagram shows Q_8 with the generators $i, j,$ and 1 . Figure 1: Q_8 By following the arrows around the diagram we can see that $i^2 = 1, i^3 =$

Exercises from An Inquiry Based Approach to Abstract Algebra

Author Hodge, Jonathan K., 1980- author. Title Abstract algebra : an inquiry-based approach / Jonathan K. Hodge, Steven Schlicker, Ted Sundstrom.

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Course Information Math 476: Abstract Algebra I – Section 01, Fall 2017 4 Credits: MWF 2:00 – 3:10p.m. Bridges Room 264 Textbook: Abstract Algebra: An Inquiry-Based Approach, by J. Hodge, S. Schlicker and T. Sundstrom [required] Office: MacLean 375M Office Phone: (218)477-4011 Office Hours: Email: jamesju@mnstate.edu MTWH 1:00pm – 1:50pm Webpage: web.mnstate.edu/jamesju

Abstract Algebra: An Inquiry-Based Approach, by J. Hodge ...

Abstract Algebra: An Inquiry Based Approach (Textbooks in Mathematics) By Jonathan K. Hodge, Steven Schlicker, Ted Sundstrom To learn and understand mathematics, students must engage in the process of doing mathematics. Emphasizing active learning, Abstract Algebra: An Inquiry-Based Approach not only teaches abstract algebra but also provides a

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The first notions of abstract algebra and the basics on factorization and finite group theory are presented in this book in an inquiry based approach. Moreover, some elegant applications on cryptography and NIM games are included. What makes this book different of many others is not the subject matter it covers but how this is done.

Review: Abstract Algebra. An Inquiry Based Approach | EMS

The second source is a free e-book called An inquiry-based approach to abstract algebra, by Dana Ernst. This follows the "Visual Group Theory" approach, but is more rigorous and proof-based. However, most of the proofs are not provided; you are supposed to fill them in. This is what the "inquiry-based" part means.

Math 4120 (Modern Algebra), Summer I 2019 (online)

Abstract Algebra: An Inquiry-Based Approach by Jonathan K. Hodge, Steven Schlicker, and Ted Sundstrom.

Ted Sundstrom

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