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Algebra Qualifying Exams

To introduce First Year Mathematics students to abstract Algebra, covering Group Theory and Ring Theory. Objectives: By the end of the module students should be able to understand: the abstract definition of a group, and be familiar with the basic types of examples, including numbers, symmetry groups and groups of permutations and matrices.

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ABSTRACT ALGEBRA 2 SOLUTIONS TO THE PRACTICE EXAM AND HOMEWORK 1. Practice exam problems Problem A. Find $32C$ such that $Q(i; p 2) = Q()$. Solution to A. Either one can use the proof of the primitive element theorem, or, or one can just do this by hand. A little experimenting leads to the guess $= i3 p 2$. This clearly lies in the eld $Q(i;3 p 2)$.

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ABSTRACT ALGEBRA 2 SOLUTIONS TO THE PRACTICE EXAM AND HOMEWORK

Solution. The assertion is obvious if $n = 0$ so we will assume that $(ab)^n = a^n b^n$ for some $n \geq 0$, and demonstrate the veracity of the statement $(ab)^{n+1} = a^{n+1} b^{n+1}$. Now $(ab)^{n+1} = (ab)^n (ab) = a^n b^n a b$ by the induction hypothesis, and because G is Abelian, $a^n b^n a b = a^n a b^n b = a^{n+1} b^{n+1}$. Thus by induction, $(ab)^n = a^n b^n$ for all $n \geq 0$, $a, b \in G$, G an Abelian group.

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with $G \cong \text{Sym}(4)$. Show that there exists a subgroup H of G with $H \cong \text{Sym}(3)$. (Hint: Use Example 1.9.15 and the Third Isomorphism Theorem) By Example 1.9.15, $\text{Sym}(4)$ has a normal subgroup E with $\text{Sym}(4)/E \cong \text{Sym}(3)$. Since $G \cong \text{Sym}(4)$, also G has a normal subgroup F with $G/F \cong \text{Sym}(3)$.

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Problems on Abstract Algebra (Group theory, Rings, Fields ...

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Linear Algebra Exam Problems | Problems in Mathematics

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MA136 Introduction to Abstract Algebra

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Abstract Algebra

Worked solutions to Examination Questions: Worked Solutions to MA3411/MA3412 Annual Examination 2010; Course Material from Previous Years. Prior to 2009, Galois Theory was included in Course 311 (Abstract Algebra)

Module MA3411 - Abstract Algebra

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EXERCISES AND SOLUTIONS IN GROUPS RINGS AND FIELDS

MT310.01FinalExam Page4 Answers that $\phi(ab) = 6$. Let $c = ab$, and we know that G is a cyclic group generated by c , so $G = \{e, c, c^2, c^3, c^4, c^5\}$. Now the function $\phi: G \rightarrow \mathbb{Z}/6\mathbb{Z}$ given by $\phi(c^n) = [n]_6$ is an isomorphism. 10. (10 points) Suppose that G is a nonabelian group with 6 elements. Show that G is isomorphic to S_3 . Answer: By Cauchy's Theorem, G contains an element with order 2 and an element of order 3.

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Math 4107, Abstract Algebra I, Spring 2016

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MT310.01: Introduction to Abstract Algebra

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