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MATH 251:

ABSTRACT ALGEBRA

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SOLUTIONS

Problem 1. For

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(a), we have
simply 151. For

(b), the
elements of
order 7 are

$(x^{105}=7)^k=$

x^k with $k=$

$1;:::;6$, so

$x^{15};x^{30};:::;x^{90}$.

For (c), no they
are not

isomorphic:

$(Z=16Z)$ has at

least 3 elements

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Abstract

of order 2,
namely, the
classes of 1; 7,
and $Z=8Z$ as a
cyclic group has
only one, the
class of 4.

**MATH 251:
ABSTRACT ALGEBRA
I FINAL EXAM
SOLUTIONS
ABSTRACT ALGEBRA
2 SOLUTIONS TO**

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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

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Abstract

just do this by hand. A little experimenting leads to the guess $= i^3 p^2$. This clearly lies in the field $\mathbb{Q}(i; \sqrt[3]{p^2})$.

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THE PRACTICE
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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

$(ab)^{n+1} = (ab)^n (ab) =$

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anbnab by the
induction
hypothesis, and
because G is
Abelian, $anbnab$
 $= anabnb =$
 $a^{n+1}b^{n+1}$. Thus by
induction, $(ab)^n$
 $= a^n b^n$ for all n
 ≥ 0 , $a, b \in G$, G
an Abelian
group.

Abstract Algebra

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MTH 411-1

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Abstract Algebra
II S17 Review
for the Final
Exam/Solutions

1. Let G be a group and N a normal subgroup of G with $G/N \cong \text{Sym}(4)$. Show that there exists $H < G$ with $G/H \cong \text{Sym}(3)$.

(Hint: Use Example 1.9.15)

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Abstract

Algebra Exam

Isomorphism

Theorem) By

Example 1.9.15,

$\text{Sym}(4)$ has normal

subgroup E with

$\text{Sym}(4)/E \cong \text{Sym}(3)$.

Since

$G/N \cong \text{Sym}(4)$, also

G/N has normal

subgroup F with

$G/N / F \cong \text{Sym}(3)$.

MTH 411-1

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Abstract

**Abstract Algebra
II S17 Review
for the Final**

...

Solution a) As a set $S_3 = \{1; (12); (23); (13); (123); (132)\}$; by the Lagrange theorem the subgroups of S_3 should have orders of 1; 2; 3; 6: But the order of any

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Abstract

cycle is equal
with its
length (for
example, the
order of (12) is
2). The only
subgroup of S_3
with order 1 is
 $\{1\}$; the
subgroups of S_3 .

**Problems on
Abstract Algebra
(Group theory,**

Page 27/71

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Abstract

Rings, Fields

Solutions

Algebra Quals

Solutions Yizhou

Chen September

8, 2019 Fall

2016: Solution

1. That's just
free product of

two copies of

$Z=2$ Solution 2.

I will just

calculate the

normalizers by

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brute force. So

let f_1, xg be a

basis of K over

Q . We have a

relation $x^2 +$

$ax + b = 0; a, b \in Q$.

Let M be an

element of the

normalizer.

Suppose $M: 1 \neq u$

$1 + u^2 x^2 \neq u^3$

$+ u^4 x^2$

Algebra

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Intro. to Modern
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MATH 512 Fall

2013 - Chris

Pinner - 12562.

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25 in class) and

covers Chapters

1-8. ... Exam 2

Solutions Exam 3

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Fall 2005 Exams.

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Linear Algebra
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of an exam
(midterm, final,
qualifying,
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problem given at
various
universities.
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of the
universities
where I borrowed
problems and
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To introduce
First Year
Mathematics
students to
abstract
Algebra,
covering Group
Theory and Ring
Theory.

Objectives: By

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At 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

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permutations and
matrices.

MA136

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have computed
letter grades by
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"composite

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grade" for each student after the final exam papers have been graded. The composite grade will attempt to reflect the following weights:
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midterm exams 15% each, final exam 35%.

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Worked solutions

to Examination

Questions:

Worked Solutions

to MA3411/MA3412

Annual

Examination

2010; Course

Material from

Previous Years.

Prior to 2009,

Galois Theory

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was included in
Course 311
(Abstract
Algebra)

**Module MA3411 -
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MATH 251:

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SOLUTIONS Thus

$$\begin{aligned} & \cdot 2(a+ b + c 2+ d \\ & 3) = a+ b(1 2 \\ & 3) + c 3+ d 2. = \end{aligned}$$

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Abstract

(a 3b) b + (d b)
2+ (c b) : It
follows that we
can take a= b= 0
and c= d. In
other words $\cdot 2($
 $2+ 3) = 2+ 3$. so
that $Q($
 $)fId; \cdot 2g= Q(2+$
 $3)$. To be clear,
a solution to
the problem is
given by taking
 $2= + 3. 2.$

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This is a
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I, Spring 2016.

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get them familiar with some solutions. Some of the solutions here are very short and in the form of a hint. I would like to thank Bulent Buyukozkan for his help during the preparation of

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these Algebra Exam

Solutions

**EXERCISES AND
SOLUTIONS IN
GROUPS RINGS AND
FIELDS**

MT310.01FinalExam
Page4 Answers

that $o(ab) =$

6. Let $c = ab$, and
we know that G is

a cyclic group
generated by c ,

so $G = \{e, c, c^2, c$

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Abstract

$\{c_3, c_4, c_5\}$. Now the function $\varphi: G \rightarrow \mathbb{Z}/6\mathbb{Z}$ given by $\varphi(c_n) = [n]_6$ 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

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 $ho(a) = 2$
andanelementb

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