MATH 113 LECTURE NOTES

Ahmed Shakil

These notes were compiled while I took Math 113, Abstract Algebra, under Professor Danilenko in the spring of 2023. The textbook that the class followed was the third edition of *Abstract Algebra* by Dummit and Foote. As a warning this document is a extremely scattered composition.

Contents

I	Vector spaces	3
1	Groups 06/02/2024	4
3	3.1 Test	5 7 7
II	Vector	9
2	Rings. 2.1 Test <	10 10 10
No	tes on Fields. 2.2 Test 2.2.1 Test 1	12 12 12
3	new test 3.1 try this out	15
ho	ow about now	16

Part I:

VECTOR SPACES

This is a test epigraph

06/02/2024 —		
	Lecture 1	
	Groups.	

Lecture 3

test this out

how about this

3.1 Test

Indent test

lets see now

Example 3.1.1: Examples

Theorem 3.1.2: Theorems

try this out

3.1.1 Test 1

Indent test

lets see now

Example 3.1.3: Examples

Theorem 3.1.4: Theorems

try this out

PART II:

VECTOR

This is a test epigraph

Lecture 2

Rings.

2.1 Test

Indent test

lets see now

Example 2.1.1: Examples

Theorem 2.1.2: Theorems

try this out Lecture

2.1.1 Test 1

Indent test

lets see now dawd

Example 2.1.3: Examples

Theorem 2.1.4: Theorems

Rings. Math 113

try this out

Notes on Fields.

2.2 Test

Lecture

Notes on Fields. tast Indent test lets see now dwa

Example 2.2.1: Examples

Theorem 2.2.2: Theorems

try this out

2.2.1 Test 1

Indent test

Notes on Fields. Math 113

lets see now dwa

Example 2.2.3: Examples

Theorem 2.2.4: Theorems

try this out

Notes on Fields. Math 113

dwadwa

Lecture 3 new test

3.1 try this out

how about now

this work?