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Chapter 1 The group of

complex p -power roots

of unity is a proper

quotient of itself Draw

subgroup lattice of a

quotient of quasi-

dihedral group of order

16

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3 Lebesgue integral: definition via simple functions	5 4
Lebesgue integral: general	7 5
Lebesgue integral: “equipartitions”	17 6
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Series of non-negative functions	31

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A modern Analysis book with lots of solved problems is the two volume book. Principles of Real Analysis and Problems in Real Analysis from Aliprantis and Burkinshaw. They present more than \$600\$ problems in their Principles and they provide complete solutions to these problems in their Problems book which was sometimes very helpful for me.

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whether the following

sets are open, closed,

neither, or both: 1.

$f(x;y) : 1 < x < 1; y =$

$0g$ Neither

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FINAL EXAMINATION

SOLUTIONS, MAS311

REAL ANALYSIS I

QUESTION 1. (a) Show
that $\sqrt{3}$ is irrational.

(10 marks) Proof.

Suppose that $\sqrt{3}$ is
rational and $\sqrt{3} = p/q$
with integers p and q
not both divisible by 3.

We get the relation p^2
 $= 3q^2$ from which we
infer that p^2 is divisible
by 3. Hence p itself is

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skills for the readers to
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Wed, Jan 18 --

arithmetic operations
with real numbers,
examples of
computations of sup
and inf, construction of
the square root of 2,
introduction to limits

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Section 2.3, and these
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Problems 1 and 2 from
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-- definition of the limit
of a sequence

**MAT337H1, Winter
2017 - University of
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2 CONTENTS Notations:

† $B(X;Y)$: the space of
all bounded

(continuous) linear

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operators from X to Y . \dagger
 $\text{Image}(T) = \text{Ran}(T)$: the
image of a mapping T :
 $X \rightarrow Y$. $\dagger x_n \rightarrow x$: x_n
converges weakly to x .
 $\dagger X'$: the space of all
bounded (continuous)
linear functionals on X .
 $\dagger F$ or K : the scalar
field, which is \mathbb{R} or \mathbb{C} . \dagger
 Re ; Im : the real and
imaginary parts of a
complex number.

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develop a connection
between analysis and
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disciplines, such as ...

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