
Complex Analysis

Math 214 Spring 2004
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Fowler 112 MWF 3:30pm - 4:25pm
<http://faculty.oxy.edu/ron/math/312/04/>

Class 18: Wednesday March 3

SUMMARY Review for Exam 1

CURRENT READING Saff & Snider, §1.1, §1.2, §1.3, §1.4 §1.5, §1.6, §2.1, §2.2, §2.3, §2.4, §2.5, §2.7, §3.2, §3.3, §3.4

Arithmetic Operations on Complex Numbers

Graphical Representation of Complex Numbers and Inequalities

Polar and Exponential Forms of Complex Numbers

Roots of a Complex Numbers

Points Sets in the Complex Plane

Complex Functions of a Complex Variable

Limits of Complex Functions and the Point at Infinity

Continuity, Differentiability, and Analyticity

The Cauchy-Riemann Equations

Harmonic Functions and Laplace's Equation

The Complex Exponential Function

The Complex Trigonometric and Hyperbolic Trigonometric Functions

The Complex Logarithm

Branch Cuts

Application of Complex Variables: Boundary Value Problems

Complex Exponents

(YOUR FAVORITE TOPIC:) _____