



Pure Mathematics 521 Complex Analysis

A rigorous study of functions of a single complex variable. Consequences of differentiability. Proof of the Cauchy integral theorem, applications.

Course Hours: H(3-0)

Prerequisite(s): Pure Mathematics 435 or 455 or consent of the Division.

Suggested Text: "Complex Analysis", by Serge Lang, 3rd edition.

Syllabus

Table with 2 columns: Topics and Number of Hours. Topics include Complex numbers, Complex functions, Analytic functions as mappings, Complex integration, Series and product development, Riemann mapping theorem, Harmonic functions, and Analytic continuation. Total hours sum to 36.

2002:07:01 Effective Fall 2002
Prerequisite change 2009:07:01
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