

## Advanced Complex Analysis Harvard Mathematics Department

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The complex numbers are formally defined as the set  $C = \{x+iy\}$ , where  $i^2 = -1$ . They are represented in the Euclidean plane by  $z = (x; y) = x+iy$ . There are two square-roots of  $-1$  in  $C$ ; the number  $i$  is the one with positive imaginary part. An important role is played by the Galois involution  $z \mapsto \bar{z}$ . We denote  $j^2 = N(z) = z\bar{z} = x^2 + y^2$ . (Compare the case of a real quadratic field,

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Advanced Complex Analysis. Math 213a / Tu Th 10-11:30 / Science Center 216. Harvard University - Fall 2017. Instructor: Curtis T McMullen (ctm@math.harvard.edu) Required Texts. Ahlfors, Complex Analysis. McGraw-Hill, 3rd Edition. Nehari, Conformal Mapping. Dover, 1975.

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Mathematics 213A Advanced Complex Analysis (110880) Yum-Tong Siu. 2020 Fall (4 Credits) Schedule: TR 03:00 PM - 04:15 PM Instructor Permissions: None Enrollment Cap: n/a Fundamentals of complex analysis, and further topics such as elliptic functions, canonical products, conformal mappings, the zeta function, and prime number theorem, and Nevanlinna theory.

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It lets a student sample the three major areas of mathematics: analysis, algebra, and topology/geometry; it introduces the notions of rigor and proof; and it lets the student have some fun doing mathematics.

Courses in Mathematics - Harvard Mathematics Department

Math 55 is a two-semester long first-year undergraduate mathematics course at Harvard University, founded by Lynn Loomis and Shlomo Sternberg. The official titles of the course are Honors Abstract Algebra (Math 55a) and Honors Real and Complex Analysis (Math 55b). Previously, the official title was Honors Advanced Calculus and Linear Algebra

Math 55 - Wikipedia

Math 112 and Math 121 are courses suitable for students from Math 21, and they provide an alternative entry-point for the department's more advanced courses in Analysis and Algebra respectively. They should not be normally taken by students who have been through Math 23 or 25.

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A rigorous introduction to real and complex analysis. This course covers the equivalent of Mathematics 25b and Mathematics 113, and prepares students for Mathematics 114 and other advanced courses in analysis. Course Notes: Mathematics 55b is an intensive course for students having significant experience with abstract mathematics.

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