

Math 55a Honors Advanced Calculus And Linear Algebra

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[Contraction mapping theorem; cf. the last problem of the Topology IV set.] A function f from a metric space X to itself is said to be a contraction if there exists a constant $c < 1$ such that $d(f(x); f(y)) < cd(x; y)$ for all $x; y \in X$ [i.e., f shrinks all distances by a factor of at least $1 : c$].

Math 55a: Honors Advanced Calculus and Linear Algebra

Math 55a: Honors Advanced Calculus and Linear Algebra Neighborhoods (a.k.a. open balls) and open sets.

Math 55a: Honors Advanced Calculus and Linear Algebra Metric topology II: open and closed sets, etc.

Neighborhoods (a.k.a. open balls) and open sets. To further study and make use of metric spaces we need several important classes of subsets of such spaces.

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Math 55a: Honors Advanced Calculus and Linear Algebra Metric topology III: Introduction to functions and continuity NB we diverge here from the order of presentation in Rudin, where continuity is post-poned until Chapter 4. Continuity of functions between metric spaces. In a typical mathematical the-

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Math 55a: Honors Advanced Calculus and Linear Algebra

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.

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The two-semester-long-course-which is made up of "Honors Abstract Algebra" (Math 55a), in the fall, and "Honors Real and Complex Analysis" (Math 55b), in the spring-is far tougher than its unimposing name might have you believe. But, by all accounts, it's totally worth going through the ordeal.

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