

A look at the changes to analytic rigor in the 18th and 19th centuries.

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Abstract

In this talk we look at some of the 18th and 19th century mathematicians that helped to create the rigor that analysis showcases today. We will begin with a discussion of what rigor is and how it is integrated into a mathematicians life today before then visiting a few of the greatest minds analysis had to offer. In particular the talk will present translations of the original definitions men like Cauchy used in analysis as well as exhibit original (some correct, some incorrect) proofs of famous theorems like the Fundamental Theorem of Algebra that men like Euler and Gauss provided. We will culminate with the discussion of Weierstrass where we will see the beginnings of a more recognizable analysis we enjoy today.