Real Analysis

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Introduction

Analysis

Real Analysis: The analysis of real numbers and real-valued functions. Complex Analysis: Concerns the analysis of complex numbers complex functions. Harmonic Analysis: Concerns the analysis of Harmonics (Waves) sine waves and how they synthesize other functions by Fourier Transform. Functional Analysis: Focuses much more heavily on functions (on how they form things like vector spaces)

Real Analysis is the theoretical foundation underlines calculus, which is the collection of computational algorithms which one uses to manipulate functions.