Michigan Math Club

Thursday at 4pm in the Nesbitt Room
Free Pizza and Pop

A Simplest High-order Numerical Method

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Abstract for 25 January 2018

A central task of numerical analysis is to develop efficient numerical methods for scientific and engineering problems. In Calculus class, we learned about the trapezoidal rule for numerical integrations, which is only 2nd-order accurate. In this talk, we will show that the trapezoidal rule is, in fact, an "infinite-order" method when applied to a certain class of integrands.