

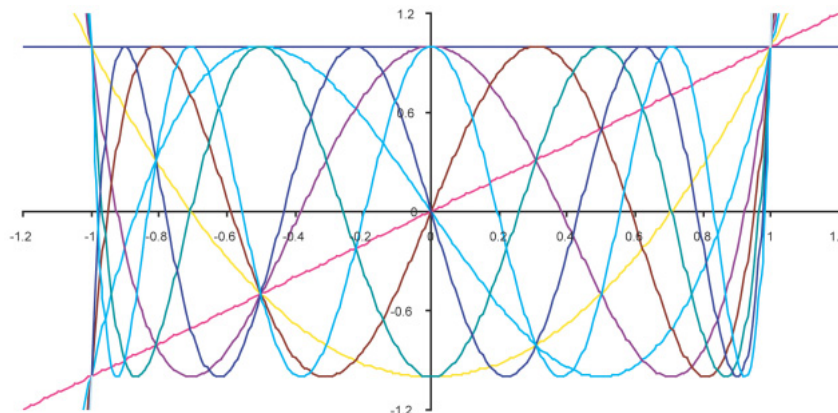
A FOCUS on MATHEMATICS COLLOQUIUM

"The Chebyshev Polynomials: Patterns and Derivation" Presented by BEN SINWELL (Chelsea High School)

Date:
June 10, 2004

Place:
Boston University
Department of Mathematics and Statistics
111 Cummington Street
Room 149

Time:
4:30 - 5:30 PM



Pafnuty Lvovich Chebyshev was a Russian mathematician who is famous for his work in the area of number theory and for his work on a sequence of polynomials that now bears his name. These Chebyshev polynomials have applications to the fields of polynomial approximation, numerical analysis, graph theory, Fourier series, and many others. They can be derived directly from the multiple angle formulas for sine and cosine. For this reason, the study of Chebyshev polynomials is relevant to the high school curriculum. The presentation will include a derivation of the Chebyshev polynomials and a mathematical exploration of the patterns they produce.

Teacher Registration & RSVP by June 4, 2004

Please Contact Ava Berinstein: ava@focusonmath.org

Reception to follow in Room 135 from 5:30 - 6:30



Focus on Mathematics is a unique partnership of mathematicians and educators from Boston University, Education Development Center, Inc., Worcester Polytechnic Institute, UMass Lowell, Lesley University, and five Greater Boston school districts: Arlington, Chelsea, Lawrence, Waltham, and Watertown.



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