Friday, September 24, 2010 from 4:00 to 5:00 p.m., PB 192

We will consider the capability and role of computer algebra systems (CAS) in constructing proofs — in particular in "proving" inequalities. Can you (your calculator or your computer) ever draw a graph and deduce from the drawn graph that you have a proof of an inequality? We will conclude that there is a role for CAS in analysis and, specifically, that there are various useful and practical strategies for rigorously establishing analytic inequalities.
Kent Pearce is a professor of mathematics at Texas Tech University. He received his Ph. D. from SUNY Albany in 1980 and is the author of over 30 refereed publications. His area of research is complex analysis.

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