

Meeting: 1003, Atlanta, Georgia, MAA CP F1, MAA Session on Mathlets for Teaching and Learning Mathematics

1003-F1-875 **Dennis M. Kern*** (dennis.kern@tamut.edu), Arts & Science, P. O. Box 5518, Texarkana, TX 75505-5518. *A Geometric Proof of the Means Inequality.*

The author has developed an interactive geometric proof of the means inequality. This is a visual proof that the harmonic mean never exceeds the geometric mean which never exceeds the arithmetic mean and that equality of the three means occurs only when $x=y$. The applet will be available on the author's webpage after the meeting. (Received September 30, 2004)