962-L1-146   **David A Thomas*** (`dthomas@bsu.edu`), Department of Mathematical Sciences, Ball State University, Muncie, IN 47306. *Creating WWW-based demonstrations using the JavaSketchpad.*

The Geometers Sketchpad is a popular dynamic modeling environment used in both K-12 and higher education to create and investigate Euclidean objects and their relationships. Using JavaSketchpad, models created using The Geometer's Sketchpad may be published on the WWW, extending their availability to users without access to the desktop version of The Geometer's Sketchpad. This presentation will demonstrate use of the JavaSketchpad in the author's WWW-based distance education course "Geometry for Teachers." Two models, "Orthogonal Circles" and "The Cross Ratio", will be used to illustrate use of the JavaSketchpad in instruction. A third model, "Using Archimedes' Spiral to Square the Circle", will be used to illustrate student use of the JavaSketchpad in project work. All three models will be available on-line prior to, during, and after the conference so that interested persons may access them from any java-enabled WWW browser. Technical details on how to download, install, and use the JavaSketchpad will be provided in a handout. (Received August 09, 2000)