

1067-E1-2161 **Kevin Hartshorn*** (hartshorn@math.moravian.edu), Department of Mathematics & Computer Science, 1200 Main St., Bethlehem, PA 18018. *Lines and circles: A range of viewpoints*. Preliminary report.

To help develop geometric thinking and strong problem-solving skills, teachers need to have an active understanding of alternative approaches to geometric problems. I will discuss methods used in my college geometry course, as well as in teacher workshops, to take some fundamental geometry problems and study them from several viewpoints. I will show how just a few basic problems from high school geometry can be explored through the use of manipulatives, cooperative work, technology tools, and non-euclidean geometries. (Received September 22, 2010)