

1116-A1-2837 **Monika Keindl*** (monika.keindl@nau.edu). *Using SAGE to illustrate the proof of Euler's polyhedron formula.* Preliminary report.

We will use the computer algebra system SAGE to illustrate the inner workings of the proof of Euler's formula $v - e + f = 2$ and in the process learn many of the impressive features this software package offers. This approach is an appropriate middle ground between the mathematical rigor expected from mathematics majors and the programming skills computer science majors are familiar with. (Received September 22, 2015)