# Polyhedral Curvature

## Math 282 Computational Geometry
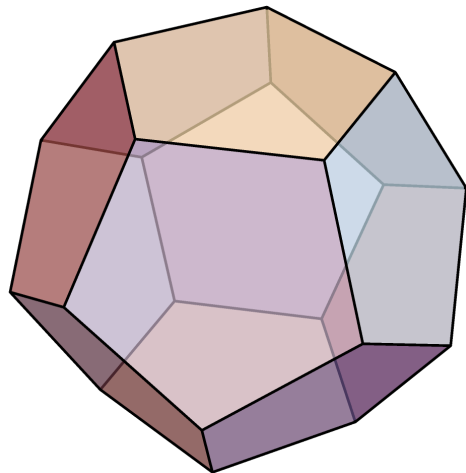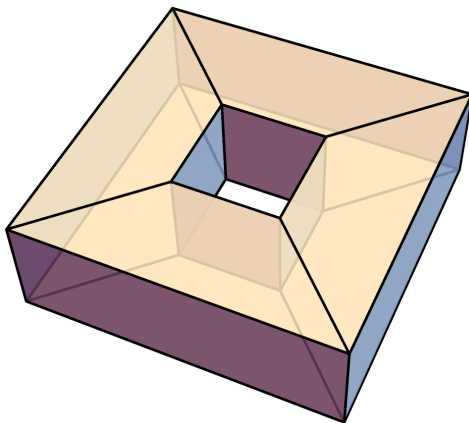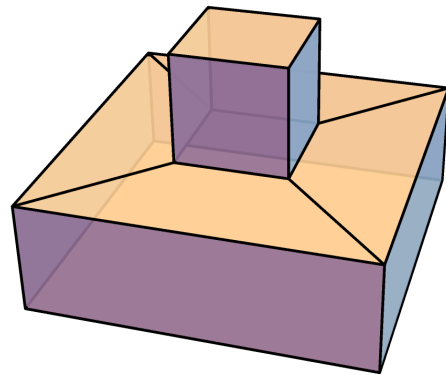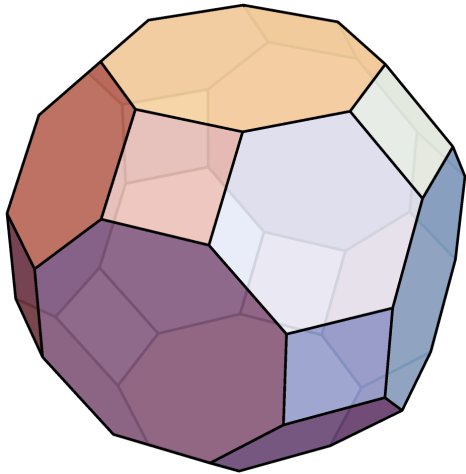
Compute the Gaussian curvature at each vertex of the polyhedron. Then add up the Gaussian curvature over all vertices of the polyhedron.
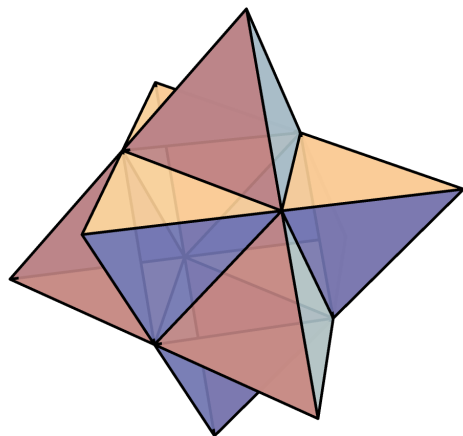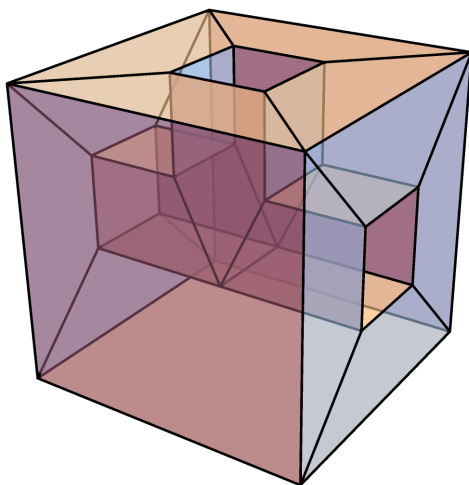
For each of the following polyhedra, let $R$ be the region above the curve indicated by arrows. Verify the formula:

$$\sum_{v \in R \backslash \partial R} K(v) + \sum_{v \in \partial R} K(v) = 2\pi \chi(R).$$