

Name:

Math Olympiad Construction! – Problem Due: – April 29, 2004

# Polyhedra

Here are skeletons of the five regular polyhedra that we talked about in class:

With the help of these pictures or with the help of the models you made in class, count the number of vertices, edges, and faces for each polyhedron. Then calculate what happens when you add vertices minus edges plus faces:

Polyhedron	Number of Vertices (V)	Number of Edges (E)	Number of Faces (F)	V-E+F
Tetrahedron				
Cube				
Octahedron				
Icosahedron				
Dodecahedron				

Do you see any interesting patterns in the table?