



FIGURE 1. The five regular solids.

1. In 3-dimensions there are 5 regular (Platonic) solids. They are shown in Figure 1 and have the following number of vertices and edges:

	vertices	edges
tetrahedron	4	6
cube	8	12
octahedron	6	12
dodecahedron	20	30
icosahedron	12	30

If one were to construct pin-jointed wire-frame models of these solids, which ones would be stable?