

Platonic Solids Worksheet

Worksheet 5

1. Fill in the following table. Refer to the graphs on page 46 of the text.

Solid	Faces (F)	Edges (E)	Vertices (V)	type of face	faces per vertex	V-E+F
tetrahedron						
cube						
octahedron						
dodecahedron						
icosahedron						

2. A snub cube is an Archimedean solid. It has 24 vertices, each which meets 1 square and 4 triangles. How many edges does it have? How many faces does it have?
3. A truncated icosidodecahedron is an Archimedean solid. It has 30 square faces, 20 hexagonal faces and 12 decagonal faces. How many edges does it have? How many vertices does it have?