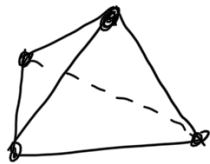


Platonic solids

Polyhedra for which all faces are congruent regular polygons, and the same # faces come together at each vertex.

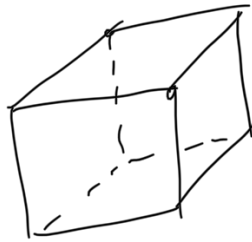
(1) Tetrahedron

triangles, 3 at each vertex



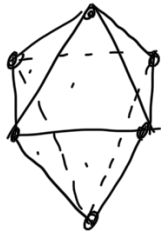
(2) Cube

squares, 3 at each vertex



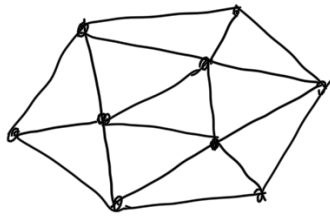
(3) Octahedron

triangles, 4 at each vertex



(4) Icosahedron

triangles, 5 at each vertex

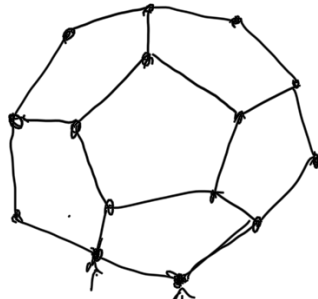


↑
looks identical on
other side

⑤

Dodecahedron

Pentagons, 3 at each vertex



↑
looks identical side, but
rotated

Examples of CW-complexes on surface