



Polyhedra: Regular Polytopes

source: O'Rourke, *Computational Geometry in C*

- Convex polyhedra are *polytopes*
- *Regular polyhedra* are polytopes that have:
 - *regular* faces, = faces, = solid (dihedral) angles
- There are *exactly* 5 regular polytopes

p	v	$(p-2)(v-2)$	Name	Description
3	3	1	Tetrahedron	3 triangles at each vertex
4	3	2	Cube	3 squares at each vertex
3	4	2	Octahedron	4 triangles at each vertex
5	3	3	Dodecahedron	3 pentagons at each vertex
3	5	3	Icosahedron	5 triangles at each vertex



Excellent math references by H.S.M. Coxeter:

- *Introduction to Geometry* (2nd edition), Wiley & Sons, 1969
- *Regular Polytopes*, Dover Publications, 1973

Regular Polytopes 2nd Edition

J Rink



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