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HW 8.1 # 6, 9, 10

6. Polyhedron	2-fold	3-fold	4-fold	5-fold
Tetrahedron	3	4	0	0
Cube	6	4	3	0
Octahedron	6	4	3	0
Dodecahedron	15	10	0	6
Icosahedron	15	10	0	6

9. Polyhedron	Mirror Planes
Tetrahedron	6
Cube	9
Octahedron	9
Dodecahedron	15
Icosahedron	15

10. The cube and octahedron have the same number of axes of rotation for 2-fold, 3-fold and 4-fold and they also have the same number of mirrors. The dodecahedron and the icosahedron, also have the same number of axes of rotation for 2-fold, 3-fold and 4-fold as well as the same number of planes. The reason the cube and the octahedron have the same number is because they are duals of each other as well as the same number of edges to work with. The same goes for the dodecahedron and the icosahedron, they are duals of each other and have the same number of edges to work with.