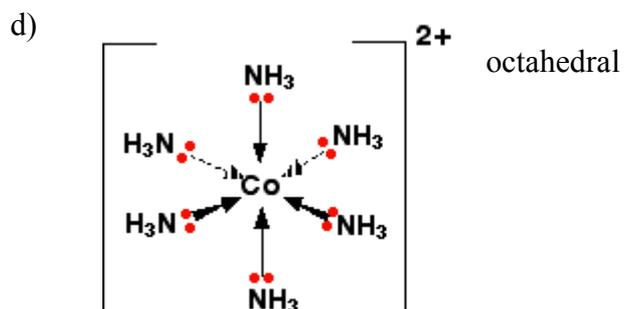
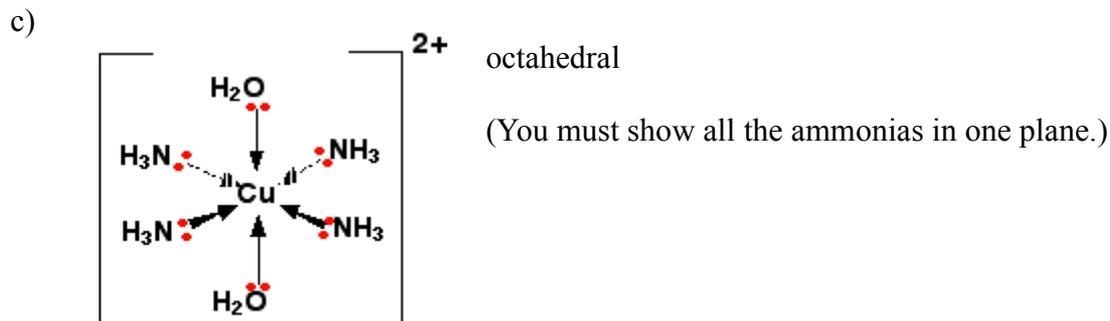
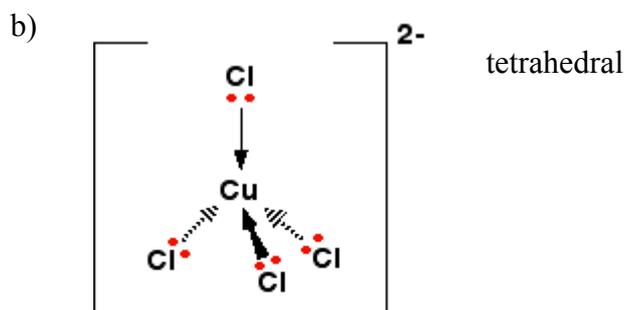
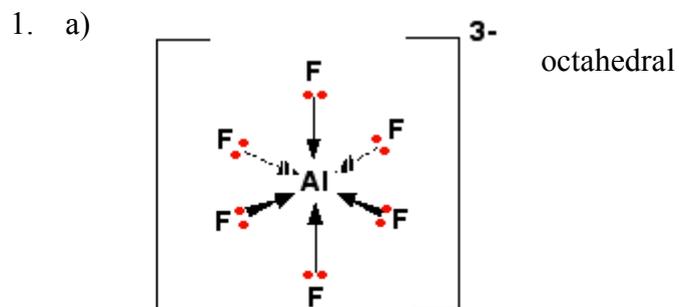


Chemguide – answers

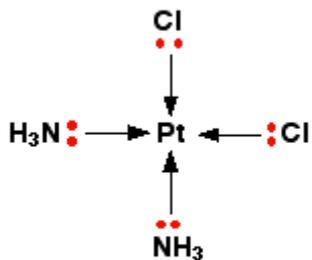
COMPLEX IONS - SHAPES



You must show all the bonds between the ligands and the metal as being coordinate covalent, and make a reasonable attempt to show the 3D structure.

Chemguide – answers

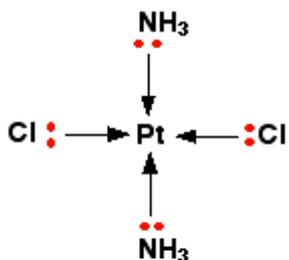
2. a)



square planar

(The two ammonias and the two chlorines must be at right angles to each other.)

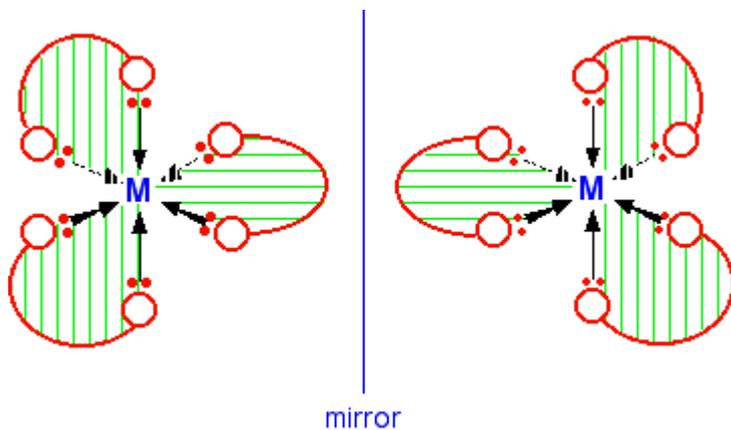
b)



square planar

(The two ammonias must be opposite each other.)

3. a)



b) They have no plane of symmetry.