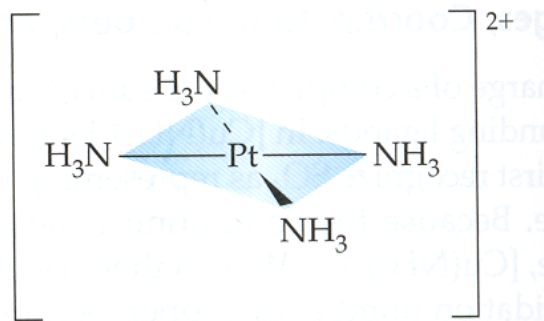
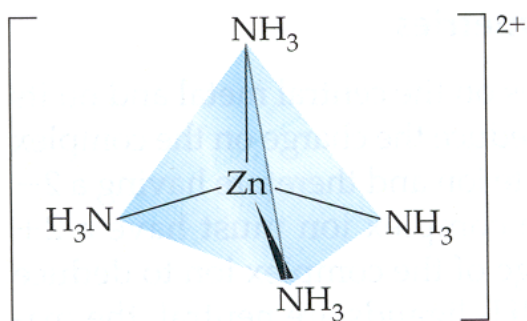


Metals and their Compounds

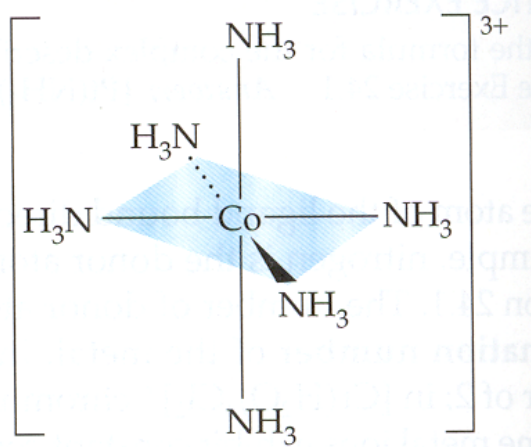
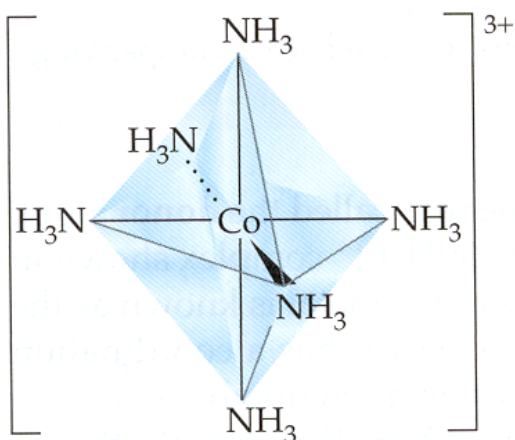
Lecture 7.3

Coordination compounds

Metal coordination complexes have *shapes* which are specific, e.g. for complexes with *four* ligand atoms attached (*4-coordinate ions*), the complexes can be *tetrahedral* or *square-planar*



For complexes with *six* ligand atoms attached (*6-coordinate ions*) the complexes are *octahedral*



The fact that complexes have specific shapes leads to the occurrence of *isomers* - these have same *formula* but are *different* compounds.