

$$4(+1) + x + 5(-1) + 0 = 0$$

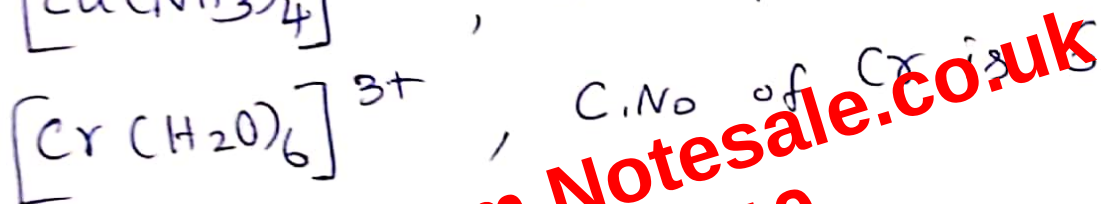
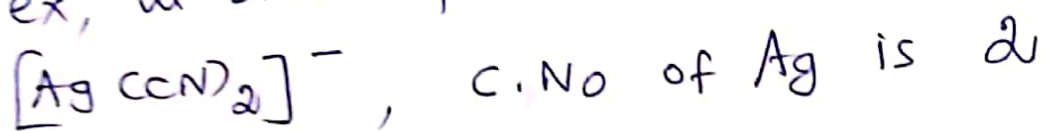
$$x = +1$$



5. Coordination number:

It is the number of coordinate bonds formed by the ligands with the central metal atom/ion.

For ex, in the complex ions,

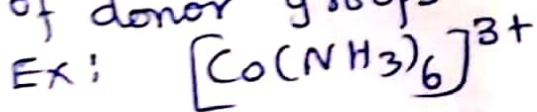


6. Coordination Polyhedron

The spatial arrangement of the ligand atoms which are directly attached to the central atom/ion defines a coordination Polyhedron about the central atom. Common Polyhedra observed in coordination compounds are octahedral, Square planar, tetrahedral.

7. Homoleptic and Heteroleptic complexes:

Complexes in which a metal is bound to only one kind of donor groups are known as homoleptic.



Complexes in which a metal is bound to more than one kind of donor groups are known as heteroleptic.

