

# NCERT/CBSE CHEMISTRY CLASS 12 textbook

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Solutions/Answers to NCERT/CBSE CHEMISTRY Class 12 (Class XII) textbook

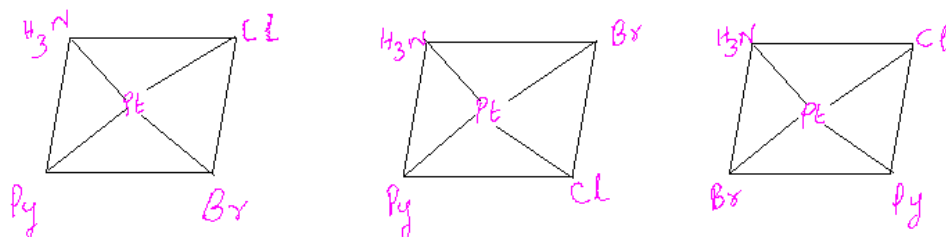
## CHAPTER NINE

### Coordination Compounds

9.12

Write all the geometrical isomers of  $[\text{Pt}(\text{NH}_3)(\text{Br})(\text{Cl})(\text{py})]$  and how many of these will exhibit optical isomers?

The geometrical isomers of  $[\text{Pt}(\text{NH}_3)(\text{Br})(\text{Cl})(\text{py})]$  are as shown below.



$[\text{Pt}(\text{NH}_3)(\text{Br})(\text{Cl})(\text{py})]$  does not show optical isomerism as the complex is square planar. Square planar complexes generally do not show optical isomerism.

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