1. Give the name for each of the following coordination compounds.
   a. \([\text{Pt(NH}_3)_4\text{Br}_2]\)(\text{NO}_3)_2\)
   b. \(\text{K[CoBr}_2\text{Cl}_2(\text{en})]\)
   c. \([\text{FeOH(H}_2\text{O})_5]\)I
   d. \(\text{Na[Mn(en)_2(CN)(NO}_2]\)}\)
   e. \([\text{Cu(NH}_3)_4(\text{H}_2\text{O})_2][\text{PtI}_6]\)

2. Write the formula for the following.
   a. diamminedichloro(ethylendiamine)chromium(III) sulfate
   b. potassium hexacyanoferrate(II)
   c. bis(ethylenediamine)oxalatomanganese(IV) sulfate

3. Draw two coordination isomers with the formula \(\text{Co(NH}_3)_5\text{ClBr}\)
4. Which of the following is NOT involved in linkage isomerism?

A. NO₂⁻
B. NO₃⁻
C. SCN⁻
D. CO
E. all are involved in linkage isomerism

5. Draw two geometric isomers with the formula \([\text{Cu(en)}_2\text{Cl}_2]\)

6. How many geometric isomers does the following compound have? \([\text{PtBr}_2\text{Cl}_2(\text{H}_2\text{O})_2]\)