

Name _____

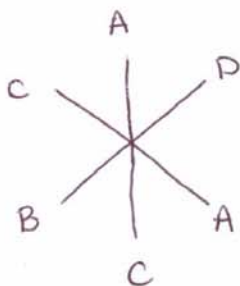
PID _____

Enrolled Section Time _____

Quiz 3

Instructions: A non-graphing scientific calculator may be used along with 3 3x5 note cards. Turn off all cell phones. Show ALL work for full credit.

1. Is the following complex chiral?



Double rotation
Superimposable mirror image
Achiral

2. Name the following compounds:

a) $[\text{Fe}(\text{CN})_6]^{4-}$ hexacyanoferrate (II) ion

b) $[\text{Co}(\text{CN})_5(\text{H}_2\text{O})]^{2-}$ aquapentacyanocobaltate (III) ion

c) $[\text{Co}(\text{NH}_3)_6]^{3+}$ hexamminecobalt (III) ion

3. Determine the coordination number of the following complexes:

a) $[\text{PtCl}_2(\text{NH}_3)_2]$ 4

b) $[\text{Rh}(\text{en})_3]^{3+}$ 6

c) $[\text{Cr}(\text{edta})]^-$ 6