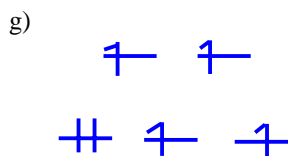
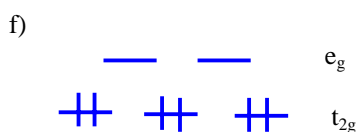
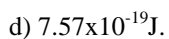
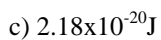
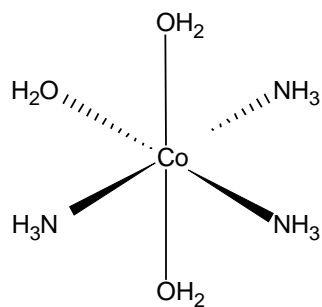
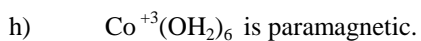


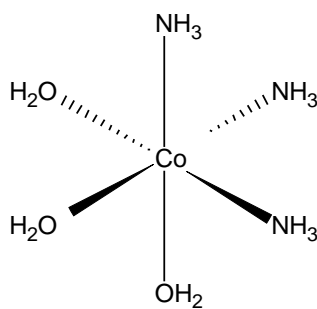
Solutions (short version) for Review Sheet for Final Exam



230 kJ/mol



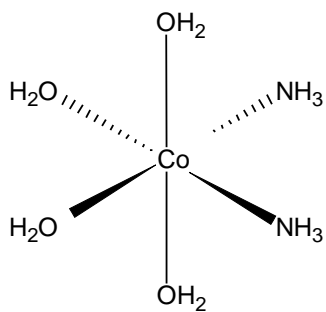
mer



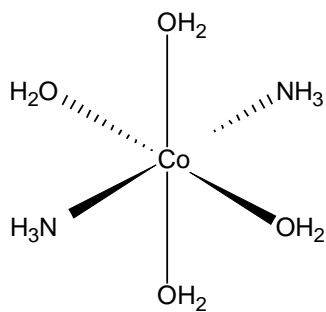
fac

i)

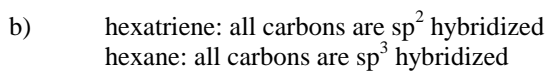
j)



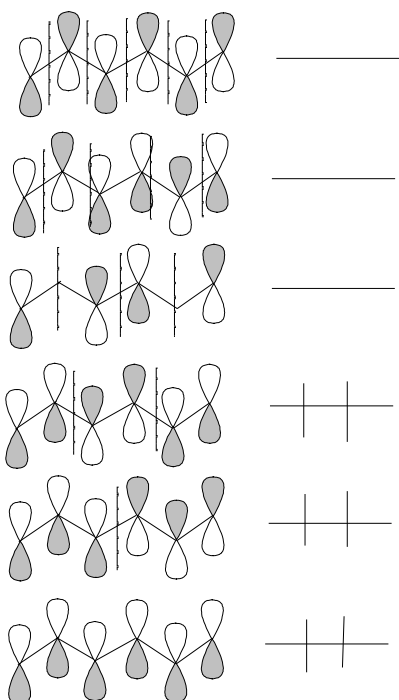
cis



trans




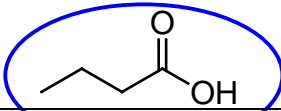
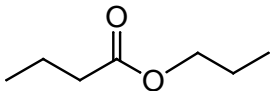
- c) Neither has a dipole moment.
 d) Na^+ will induce a larger dipole moment in hexatriene than in hexane.
 e) Dispersion will be larger for two hexatriene molecules.
 f) Both of the molecules are hydrophobic, but hexane is more hydrophobic than hexatriene.
 g) Ethyl ether is a good solvent for hexane.
 h) There are 6 pi molecular orbitals, and 3 are filled.
 i)



j) 342 kJ/mol

k) $4.70 \times 10^{-31} \text{kg}$

3) Circle the best answer to the following statements.

Lower Ionization Energy	K	Ca
Greater solubility in acetone, 		
Higher Electron Affinity	Br	Cl

Higher boiling point	CH_3NH_2	$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_2$
Smaller atomic radius	S	Te
Larger bond dipole	CO	NO
Oxidation state of Mn in MnO_2	+II	+IV
Hybridization of N in NH_3	sp^2	sp^3
Nonpolar molecule	