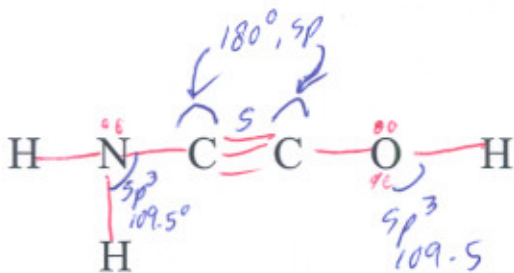


Chemistry 1501, Spring 2007, Exam #3 - Individual

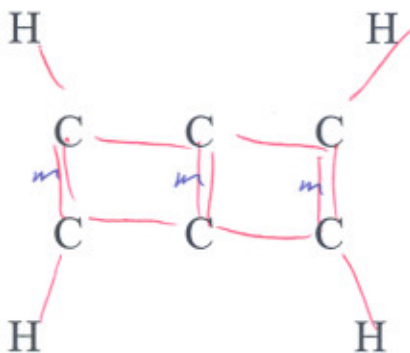
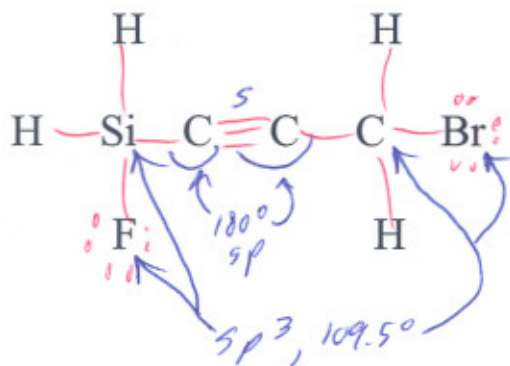
Your Initials = _____

1 (10 points total). Clearly describe what the Valence Shell Electron Pair Repulsion Theory is and what it is useful for.

2 (40 points total). For each of the following molecules, draw in their correct Lewis structures and then predict the bond lengths, bond angles, and the hybridizations.

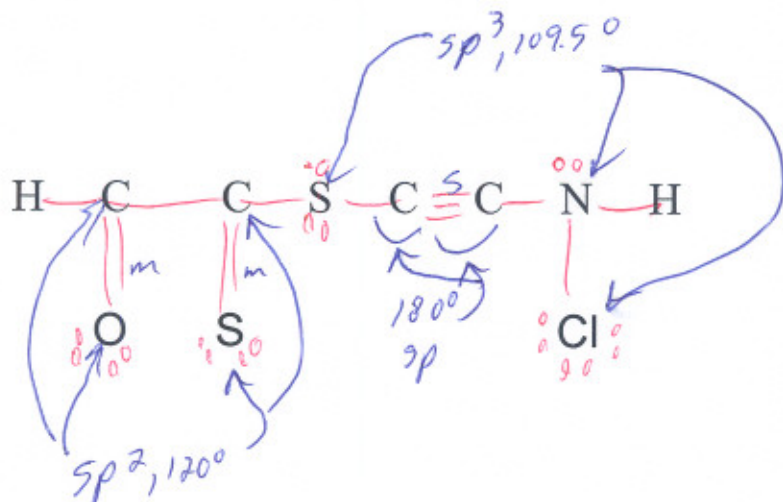


s = short
m = medium
l = long
 all bonds are long unless otherwise indicated



all carbons ^{here} are "formally" 120° , sp^2 but...

+ several other "correct" structures



+ one other "correct" structure

