Chemistry 141 Name

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Quiz 8A (20 points) April 23, 2013

1. Draw the Lewis Electron structure for the following. Tell the orbital geometry, molecular geometry, and hybridization of the central atom for each of the ions/molecules.
   1. (2 points) B 
   2. (6 points) N2H4



Orbital geometry around N tetrahedral Molecular geometry around N trigonal pyramidal

Hybridization of N sp3

* 1. (6 points) ClO2– (Show the two possible resonance structures with formal charge on each atom)



* 1. (6 points) XeF2



Orbital geometry around Xe trigonal bipyramidal Molecular geometry around Xe linear

Hybridization of Xe sp3d