Chemistry 141 Name

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Quiz 8A (20 points) April 23, 2013

1. (11 points) 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 Molecular geometry around N

Hybridization of N

* 1. (6 points) ClO2– (Show the two distinct resonance structures with formal charge on each atom)
  2. (6 points) XeF2

Orbital geometry around Xe Molecular geometry around Xe

Hybridization of Xe