

Chapter 1

Chem 30A- Week 2

Concepts

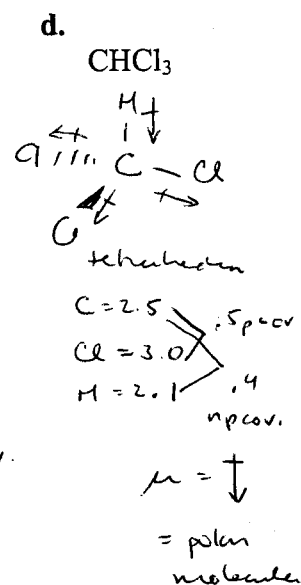
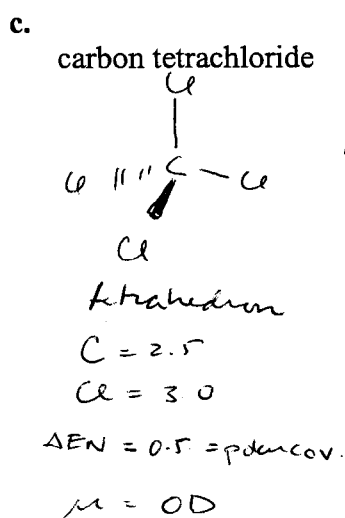
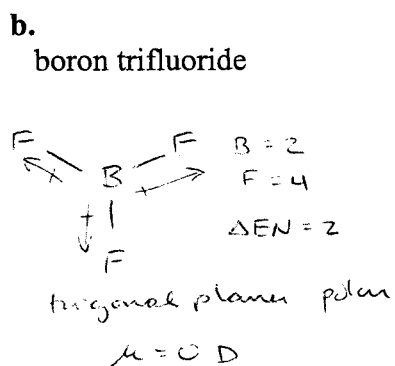
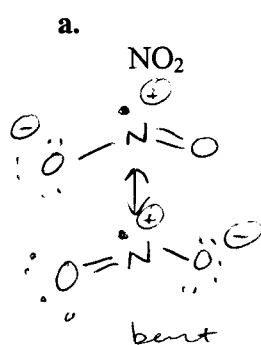
Heteroatoms
Formal Charges
VSEPR

Lewis Structures
Resonance structures
3D molecular shapes

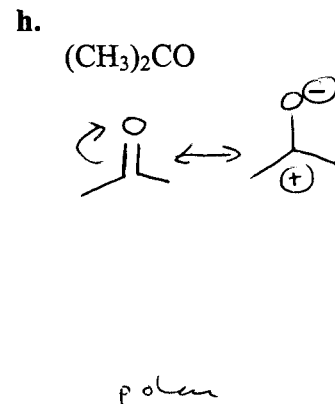
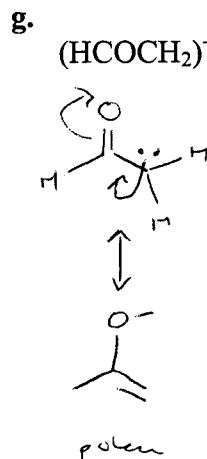
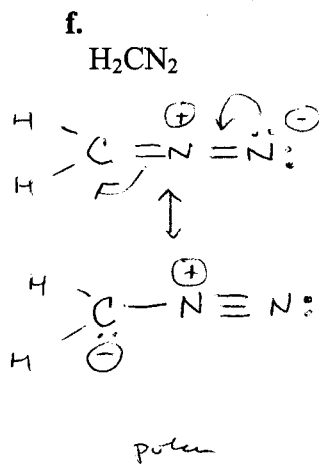
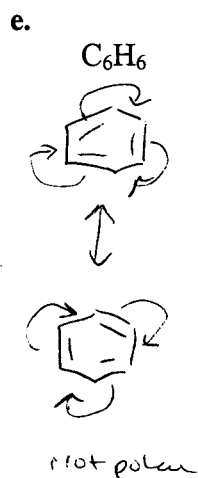
Dipole Moments
electronegativity
line formula

Class Problems

- For each compound-
 - Draw the structure as the Lewis and line structure.
 - Identify the molecular shape
 - Identify type of bond for each bond
 - Assign partial charges for each atom when applicable

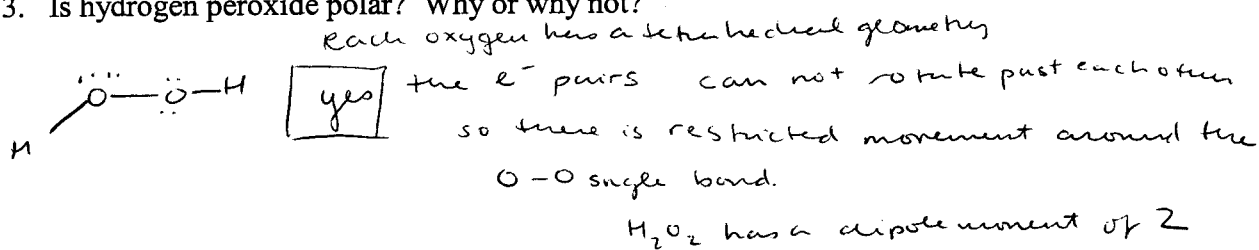


- For each compound-
 - Draw the line formula structure
 - Draw the resonance forms
 - assign formal charges were applicable
 - Are the molecules polar?



Chapter 1

3. Is hydrogen peroxide polar? Why or why not?



4. Write all resonance structures for the following molecules and ions- Remember to include all arrows that show electron movement. Give the total number of atoms in each molecule.

