

name: _____

date: _____

polar and non-polar covalent molecules

Directions: For each of the following compounds:

- a. Draw a correct Lewis structure.
- b. Predict the 3D molecular geometry and bond angle(s) observed in the molecule.
- c. Calculate the electronegativity differences (END) for each unique covalent bond seen in the molecule.
- d. Classify the polarity of each covalent bond in the molecule.
- e. Draw dipole arrows for each unique bond in the molecule, as necessary.
- f. Classify the molecule as overall polar or nonpolar.

