



Chem 105 Zamis
Molecular Geometry
Polarity
Bonding



Atom	C	N	O	H	P	S	Cl
Electronegativity	2.6	3.0	3.4	2.2	2.2	2.6	3.2

1) Order each of the bonds below from most polar to least polar. Indicate the partial positive and negative atoms in the bond.

a) C—N b) C—O c) P—O d) C—H e) O—H f) C—S

2) For each structure below:

- Indicate the polar bonds by showing partial charges on atoms.
- Draw the structure to indicate the proper three dimensional geometry.
- Estimate the bond angles for each bond.
- List the number of σ and π bonds and the kinds of orbitals that overlap.

