**Polarity Homework Sheet – General Chemistry**

1. Explain why lone pairs tend to decrease the bond angles of atoms that are bonded to their central atom.
2. What is the main idea behind VSEPR? How does it affect polarity?
3. Why do polar molecules tend to have higher melting and boiling points than nonpolar molecules?
4. Draw the Lewis structure of each compound below and indicate the bond angles and shapes of the “things” around each atom.
5. nitrogen trichloride
6. BF3