Chem 11 review: Solutions and titrations.

1. Show the dipole (if any) and classify the following bonds.
   1. C-H
   2. Li-Br
   3. Sn-Cl
2. Draw the following Lewis structures and show which of the following molecules are polar.
   1. CO2
   2. H2O
   3. CH2O
3. Nitrogen gas and Carbon monoxide have the same mass (14 ) but carbon monoxide has a slightly higher boiling point. Why do you think this might be? (hint: think intermolecular forces.)
4. 10.00 mL of an unknown concentration of Carbonic acid is titrated to completion with 0.50 M NaOH. If the average volume delivered over three runs is 11.41 mL, what is the concentration of the Carbonic acid?