## Assignment 1, Due: Oct. 1, 2013

1. Draw the molecular structure of the following compounds and name the shape according to the VSEPR theory (30p)

2. Describe the <u>intermolecular</u> forces in the following compounds and discuss their solubility in water. (30p)

$$MgCl_2$$
,  $Ca(NO_3)_2$ ,  $I_2$ , methanol (CH<sub>3</sub>OH),