Homework/Problem Set #1
Chapter 1

1. Draw the condensed and bond-line formulas for each of the following alkyl halides.

   ![Chemical Structures](image)

2. Which of the following ions do not possess a noble gas electron configuration?

   (a) Na⁺   (b) H⁻   (c) O⁻   (d) I⁻   (e) Mg²⁺   (f) S²⁻

3. Draw all constitutional isomers for C₃H₈O.


   ![Chemical Structures](image)

5. Calculate the formal charge for each atom, except for H's, in the following compounds.

   ![Chemical Structures](image)

6. Assign the hybridization of all the atoms in the molecules below except H's

   ![Chemical Structures](image)