CHEM 2511/2611

Extra Lewis Structure Problems

1. Draw Lewis structures for the following.

a) H_2O_2
b) CH_3Cl
c) C_2H_6
d) CH_3O_2H
e) CH_3NH_2
f) HCN
g) C_2H_2
h) CH_4O
i) C_3H_8
j) CH_2O
k) N_2
l) $SiCl_4$

2. Draw the multiple Lewis structures for each of the following formulae. Note: For some of the formulae there may be more than 2, 3 or 4 possible structures.

Give two possible structures

a) C_3H_6
b) C_2H_6O
c) C_3H_7Br
d) C_4H_{10}

Give three possible structures

e) C_3H_6O
f) C_3H_8O
g) C_2H_5N
h) C_5H_{12}

Give four possible structures

i) $C_3H_6Cl_2$

3. Convert all of the Lewis structures from above to bond line (skeletal) structures.