Problem Set - Lewis Structures: Chem 301X

In contrast to most of the problem sets in this course, this one involves drill problems in drawing Lewis dot structures.

No "simple" skill is more important than being able to see, quickly and easily, electron pairs and charges in molecules. It will cost you time you may need if you have to figure out where electron pairs and charges belong for every molecule you see. You must learn to draw Lewis "dot" structures effortlessly. Here's some practice.

1. Assign charges where appropriate:

$$: CH_2 : CH_3 \quad CH_3 \quad CH_4 \quad : NH_2 \quad (CH_3)_3N : \quad NH_4 \quad CH_3 \longrightarrow NH_2 \quad : NH$$

$$BF_4 \quad BF_3 \quad CH_3 \longrightarrow OH \quad CH_3 \longrightarrow OH_2 \quad CH_3 \longrightarrow OH_2 \quad CH_3$$

$$H_2C = OH \quad H_2C = OH \quad H_2C = OH \quad H_2C = OH \quad H_2C \longrightarrow OH_2 \quad H_2C \longrightarrow OH_2$$

$$H_2C \longrightarrow CH_2 \quad H_2C \longrightarrow CH_2 \quad H_2C \longrightarrow CH_2 \quad H_2C \longrightarrow CH_2$$

$$H_2C \longrightarrow CH_2 \quad H_2C \longrightarrow CH_2 \quad H_2C \longrightarrow CH_2 \quad H_2C \longrightarrow CH_2$$

$$H_2C \longrightarrow CH_2 \quad H_2C \longrightarrow CH_2 \quad CH_2 \longrightarrow OH_2 \quad CH_2 \longrightarrow OH_2$$

$$H_2C \longrightarrow CH_2 \quad H_2C \longrightarrow CH_2 \quad CH_2 \longrightarrow OH_2 \longrightarrow OH_2 \quad CH_2 \longrightarrow OH_2 \longrightarrow$$

2. Add electron dots where appropriate:

