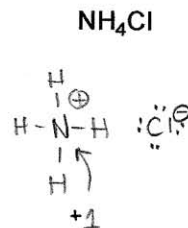
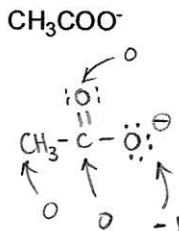
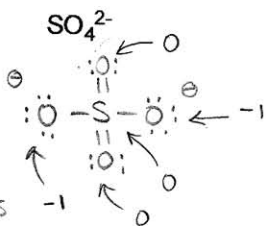
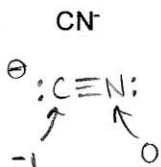


Chapter 01 Worksheet 01

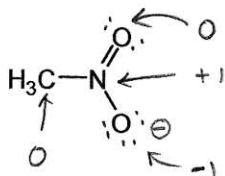
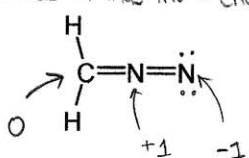
Formal Charge

Indicate the formal charge of each atom in the molecule (excluding hydrogen).

$$\begin{array}{l} \text{C: } 4\text{ve}^- \\ \text{N: } 5\text{ve}^- \\ + 1\text{ve}^- \\ \hline 10\text{ve}^- \end{array}$$



* carbon usually has 4ve⁻, but in this molecule, it has 5, thus the - charge



Polarity & Shape

Indicate the direction of polarity in each molecule, if it exists, and determine the basic shape of the molecule.

