Worksheet for Lewis Structures, Resonance Structures, and Formal Charge

Draw Lewis structures for the molecules below. Draw resonance structures where appropriate and label any formal charges. Rank resonance structures in order of importance to overall structure.

1.) [SCN]⁻
2.) [HC₂O₄]⁻
3.) SNF₃
4.) [S₂CO]²⁻ (C is central)
5.) [IO₃]⁻
6.) [HCO₃]⁻
7.) PF₃
8.) [SO₄]²⁻
9.) [C₃H₅]⁺
10.) [S₃N₃]⁻ (cyclic, every other atom is S)
11.) [ClO₄]⁻