1. Iron atoms have been detected in the sun's outer atmosphere, some with many of their electrons stripped away. What is the net electric charge (in coulombs) of an iron atom with 26 protons and 7 electrons? Be sure to include the algebraic sign (+ or -) in your answer.

The net charge is (26 protons -7 electrons) = 19 positive charges.

$$19(+1.6 \ x \ 10^{-19}C) = +3.04 \ x \ 10^{-18}C$$

$$Q_{net} = +3.04 \ x \ 10^{-18}C$$