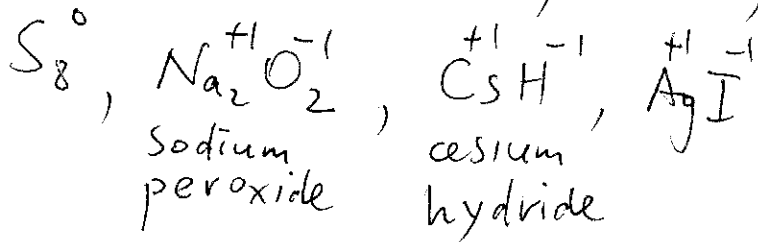
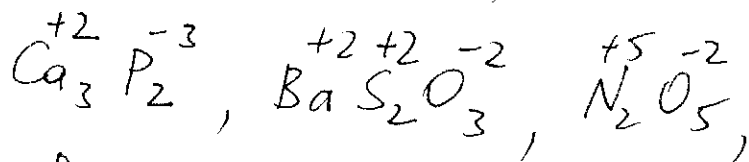
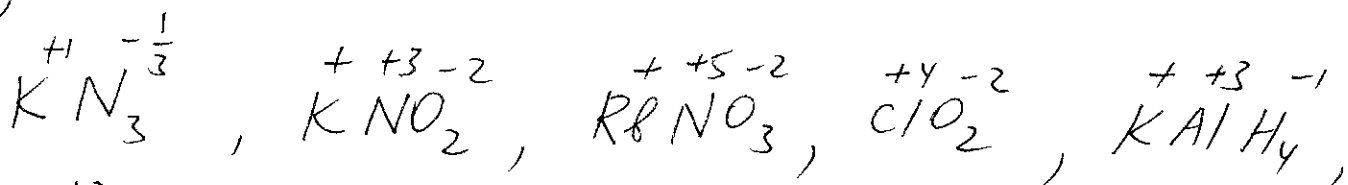


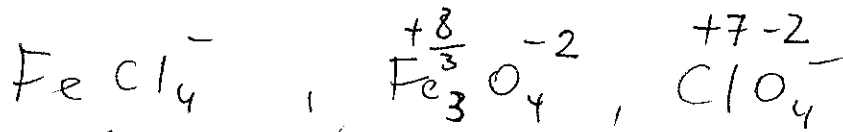
CHEM 201 Problem set #9 - solution

①



$$NO^+ = (N^{+3}O^{-2})^+$$

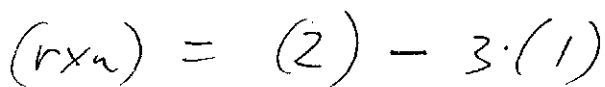
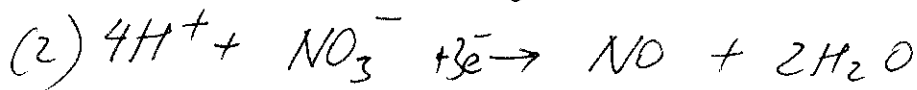
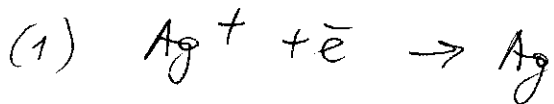
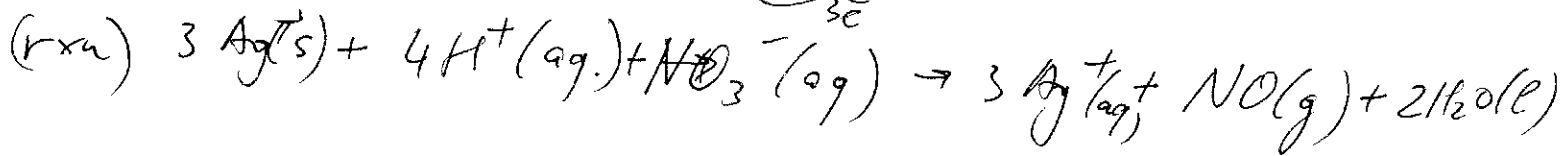
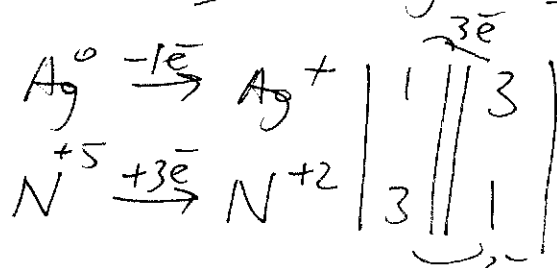
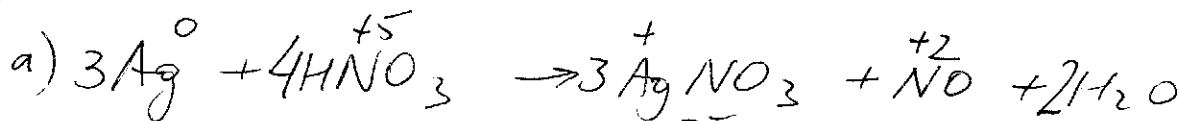
$$BF_4^- = (B^{+3}F_4^{-2})^{+3+4(-1)} = -1$$



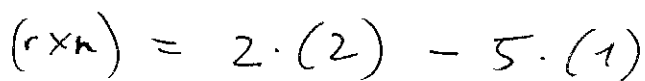
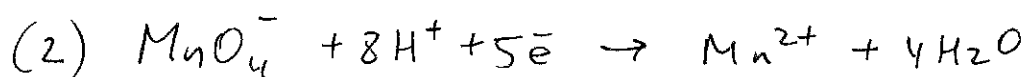
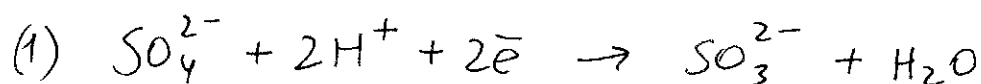
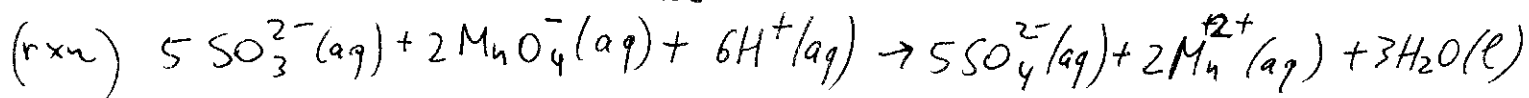
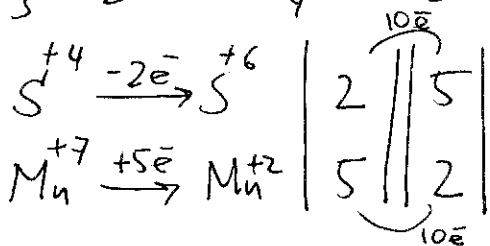
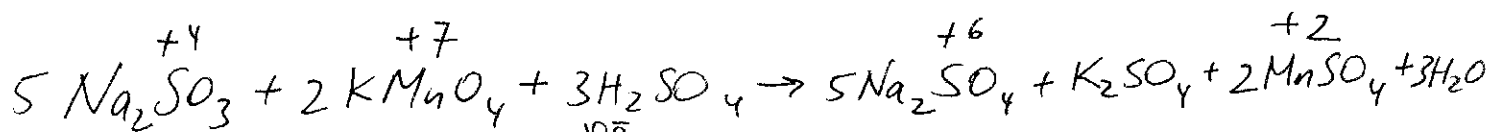
O.S. (Cl) = -1 (with only metals)

\Rightarrow O.S. (Fe) = +3 ($+3 + 4 \cdot (-1) = -1$)

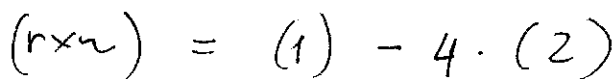
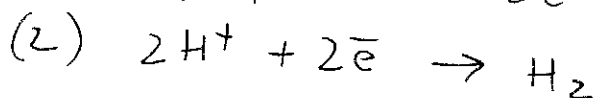
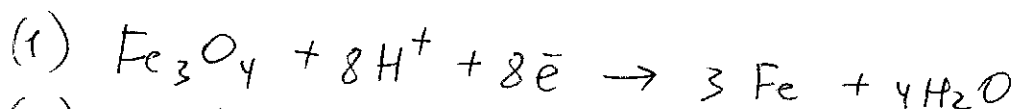
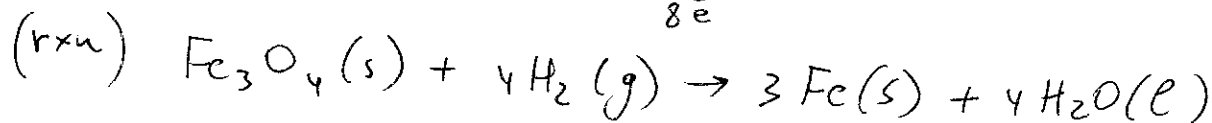
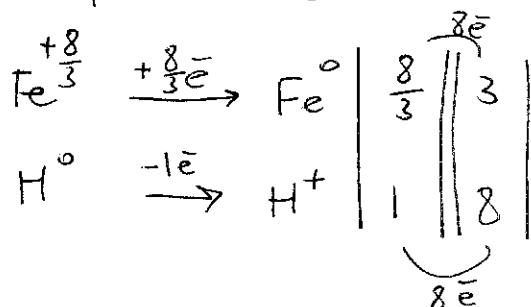
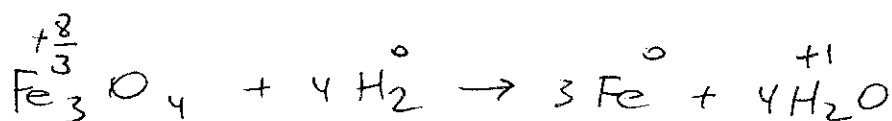
②



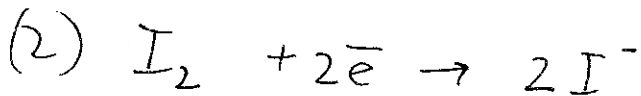
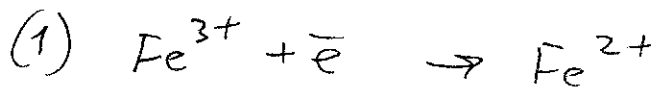
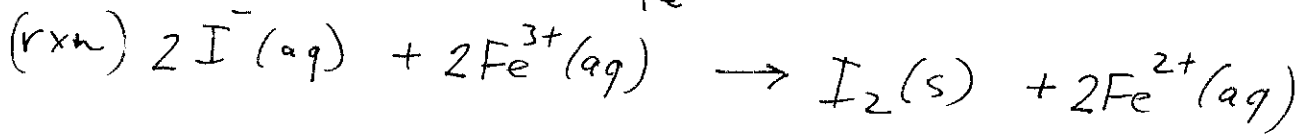
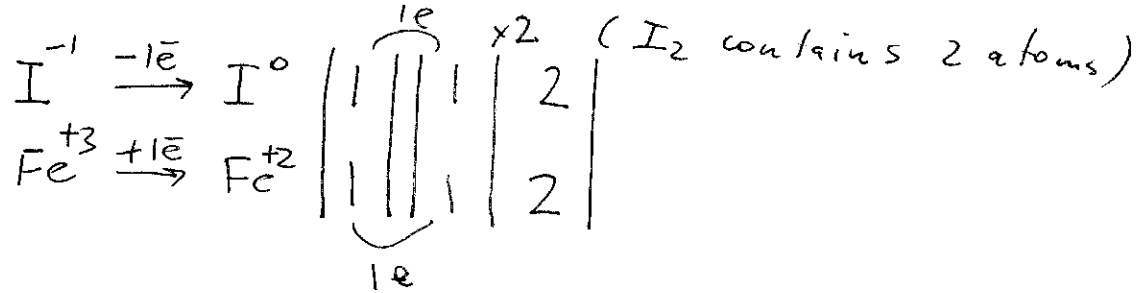
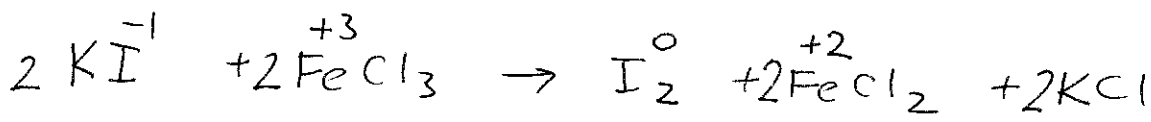
(2b)



(2c)

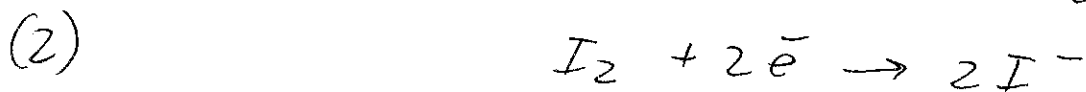
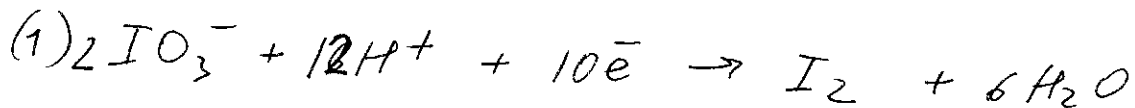
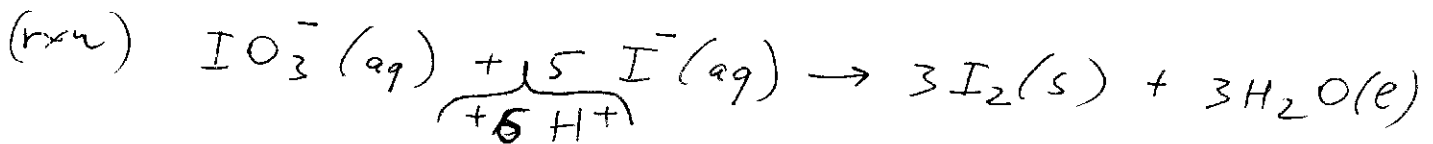
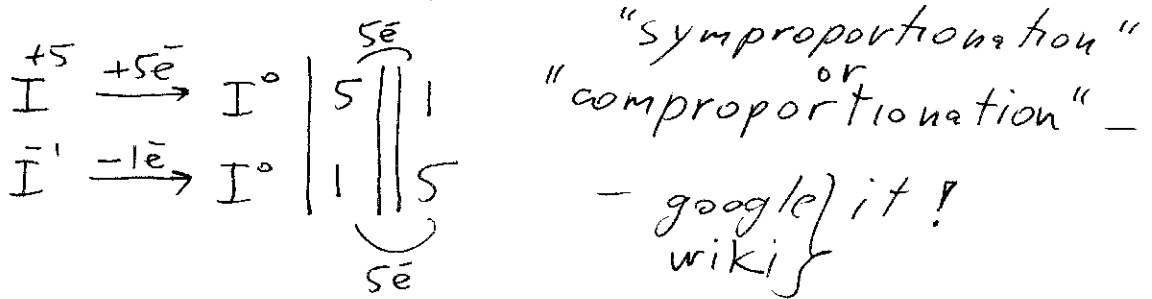
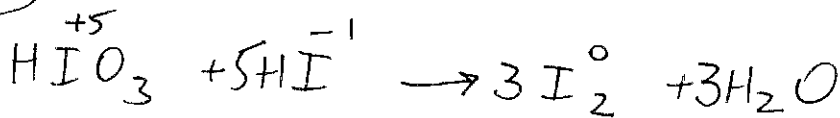


(2d)



$$\text{(rxn)} = 2 \cdot (1) - (2)$$

(2e)



$$\text{(rxn)} = \frac{(1) - 5 \cdot (2)}{2}$$