Oxidation Numbers

Using Ups & Downs
Attach this to the Unit 26 Assignment.

Name _____ Period _____

Watch out for Temporary Twos & Diatomic Elements.

Diatomic Elements (H_2 O_2 N_2 Cl_2 Br_2 I_2 F_2) are diatomic only when FREE. Not as ions or in compds.

1. $Cr_2O_7^{-2} + Fe^{+2} + H^{+1} \rightarrow Cr^{+3} + Fe^{+3} + H_2O$
2. $MnO_2^{-1} + Sn^{+2} + H^{+1} \rightarrow Mn^{+2} + Sn^{+4} + H_2O$
3. $NO_3^{-1} + Cl^{-1} + H^{+1} \rightarrow NO + Cl_2 + H_2O$
4. $NO_2 + H_2O + Mn^{+2} \rightarrow NO_3^{-1} + Mn + H^{+}$
5. $Cr^{+3} + I_2 + H_2O \rightarrow Cr_2O_7^{-2} + H^{+1} + I^{-1}$
6. $AsO_4^{-3} + NO + H^{+} \rightarrow NO_3^{-1} + As_2O_3 + H_2O$
7. $Cu + NO_3^{-1} + H^{+} \rightarrow Cu^{+2} + NO + H_2O$
8. $Sb + SO_4^{-2} + H^{+1} \rightarrow SO_2 + Sb^{+3} + H_2O$
9. $Cl^{-1} + NO_3^{-1} + H^{+} \rightarrow ClO^{-1} + NO + H_2O$
10. $MnO_4^{-1} + Sn^{+2} + H^{+} \rightarrow Mn^{+2} + Sn^{+4} + H_2O$