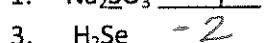
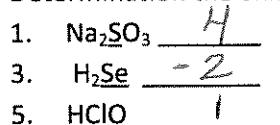


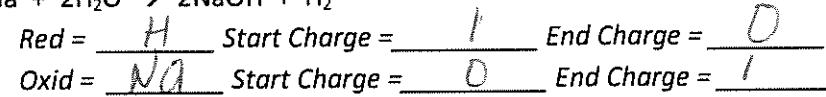
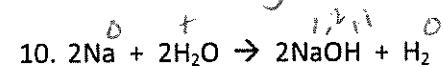
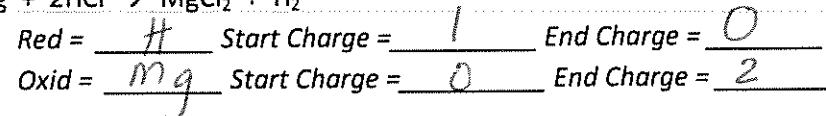
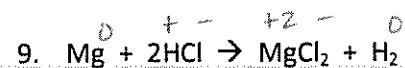
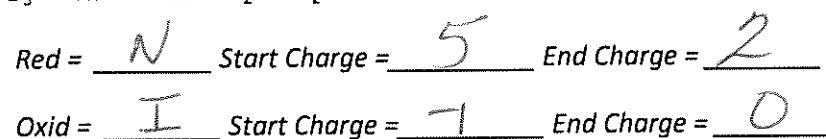
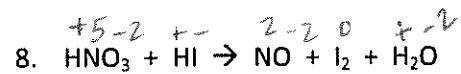
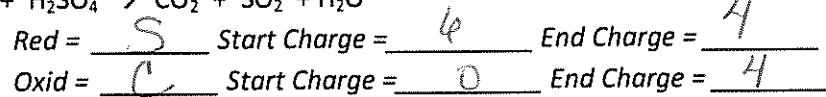
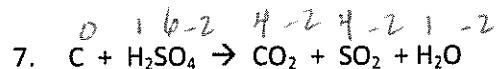
Redox and Electrochem Practice Test

Name _____ Key _____

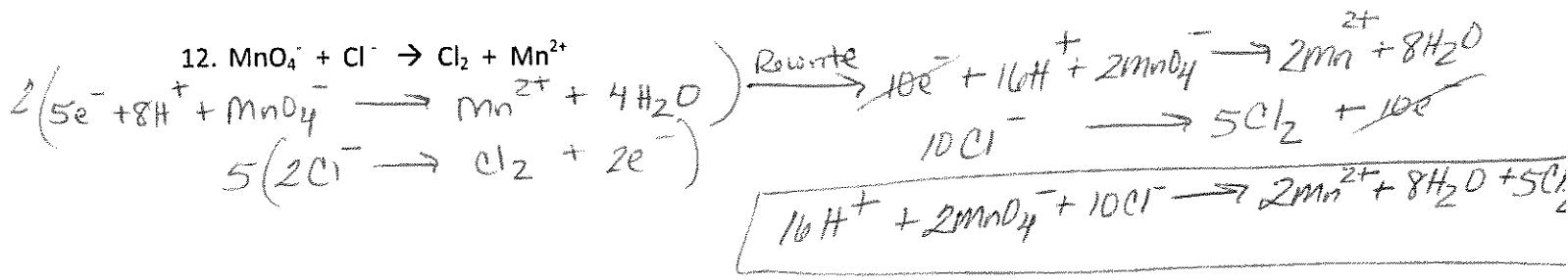
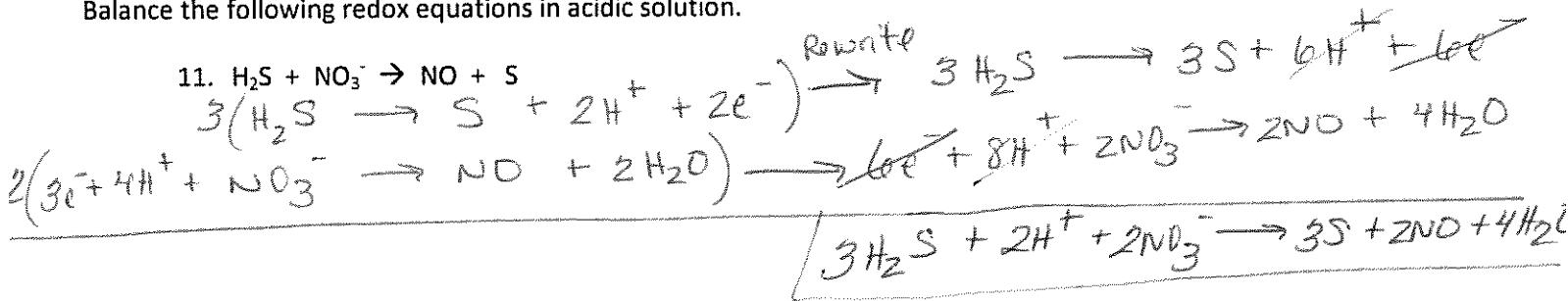
Determination the oxidation number for the underlined element.



For each of the following, determine the species being oxidized, the species being reduced, the starting and ending charge.



Balance the following redox equations in acidic solution.

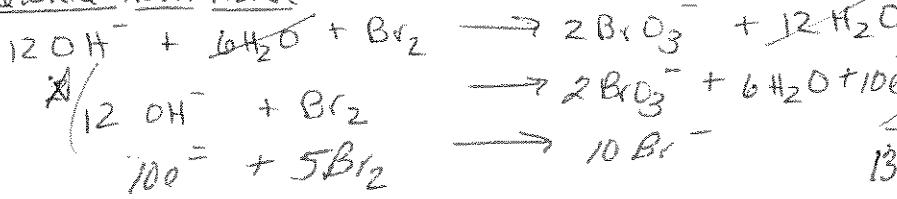


Balance the following redox reactions in basic solution.





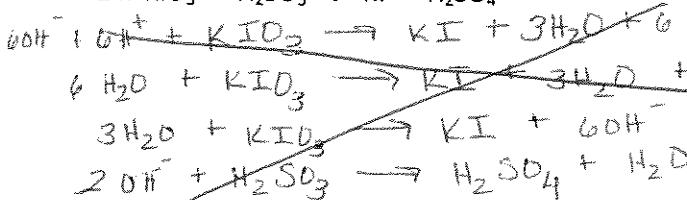
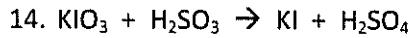
Rewrite From Above



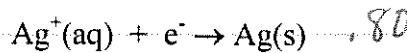
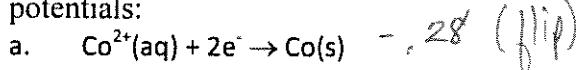
Rewrite



Final Answer:



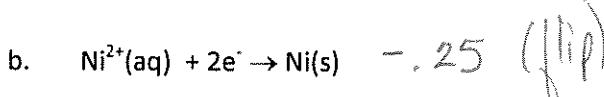
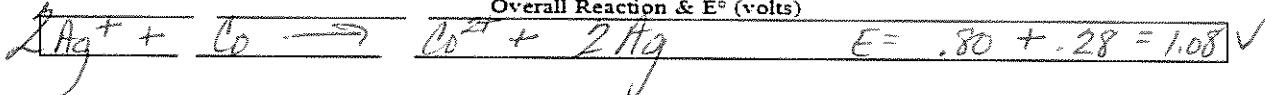
15. Consider the following pairs of half-reactions, decide which of the two half-reactions will occur at the anode and which will occur at the cathode, draw diagrams for the cells, and calculate the standard cell potentials:



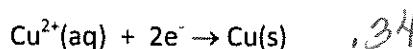
Ag

Anode Reaction	Sketch the Cell	Cathode Reaction
$\text{Co} \rightarrow \text{Co}^{2+} + 2\text{e}^-$		$\text{Ag}^+ + \text{e}^- \rightarrow \text{Ag}$

Overall Reaction & E° (volts)



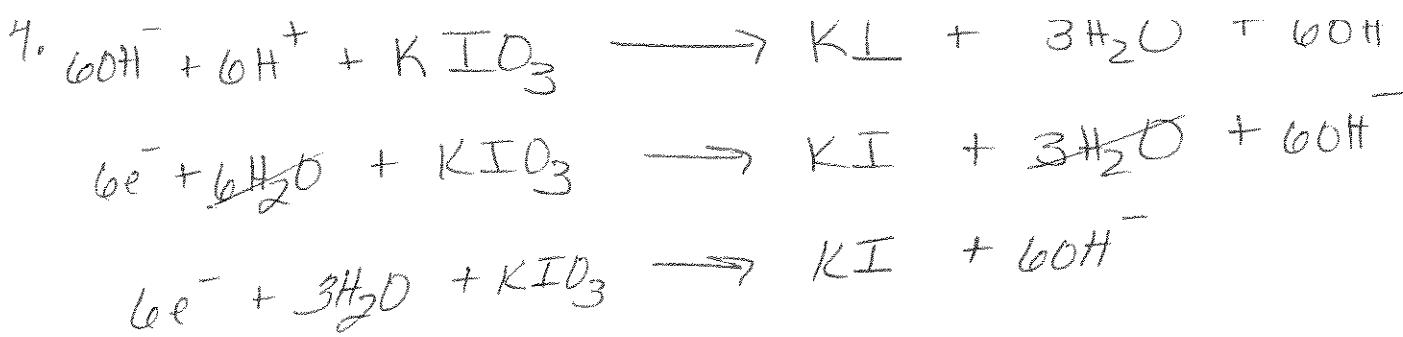
$$E = .34 + .25 = .59 \checkmark$$



Anode Reaction	Sketch the Cell	Cathode Reaction
$\text{Ni} \rightarrow \text{Ni}^{2+} + 2\text{e}^-$		$\text{Cu}^{2+} + 2\text{e}^- \rightarrow \text{Cu}$

Overall Reaction & E° (volts)





Second Half-Reaction

