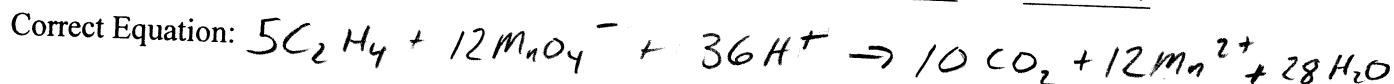
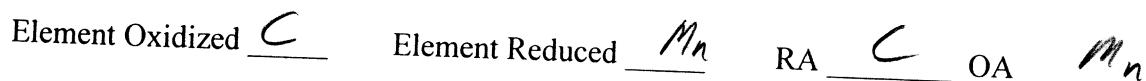
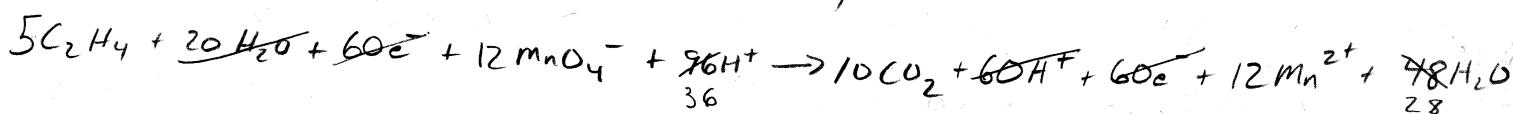
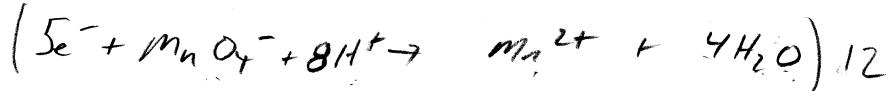
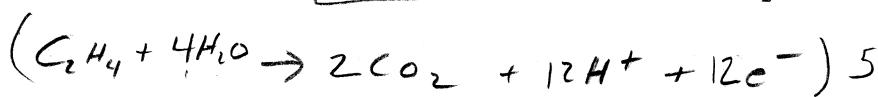
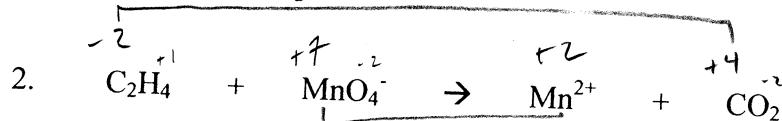
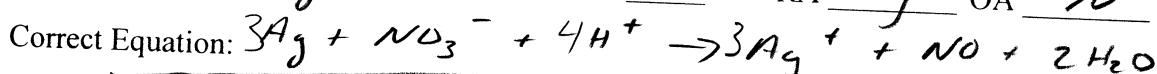
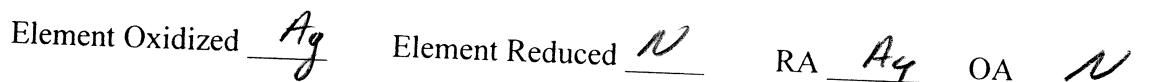
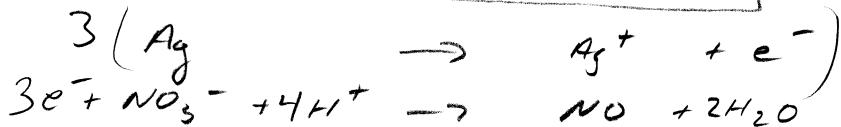
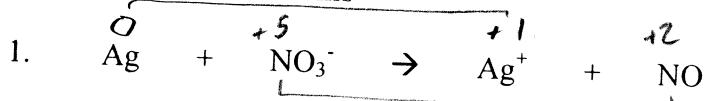
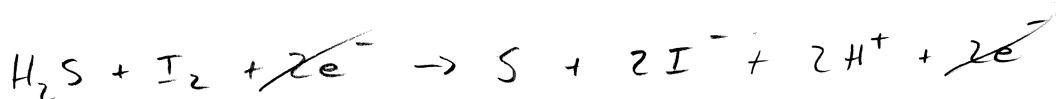
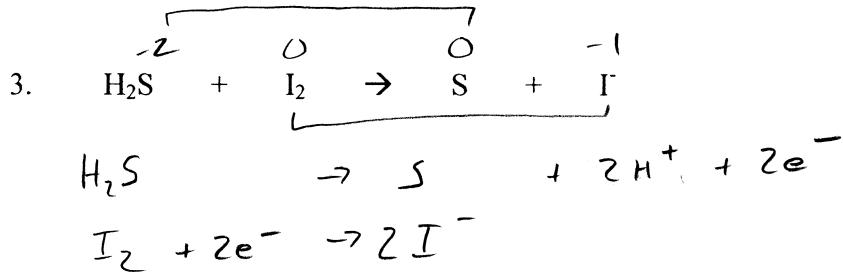


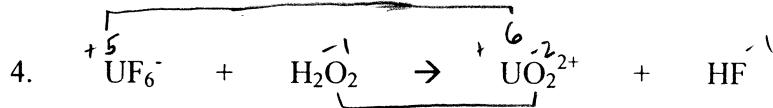
Balance the following redox reaction using the half-reaction method. Identify the oxidizing agent (OA), the reducing agent (RA), the element oxidized, and the element reduced.

Acidic Solution Problems



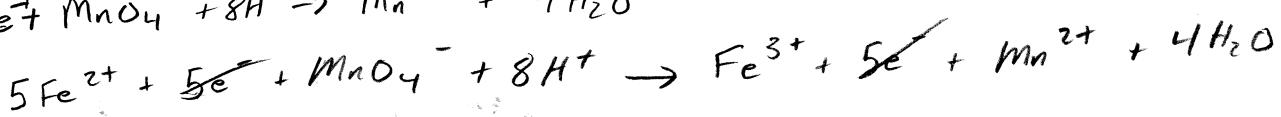
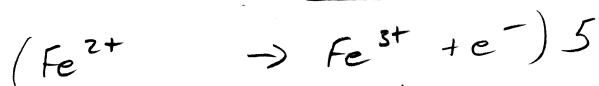
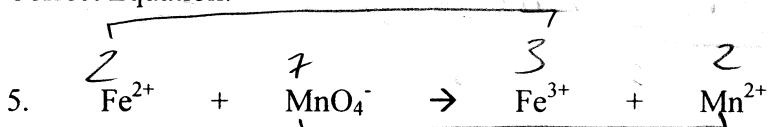
Element Oxidized S Element Reduced I RA S OA I

Correct Equation: $\text{H}_2\text{S} + \text{I}_2 \rightarrow \text{S} + 2\text{I}^- + 2\text{H}^+$



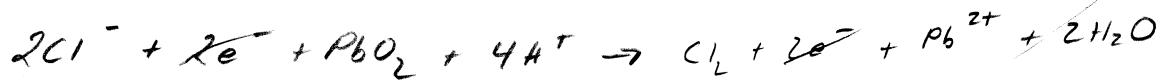
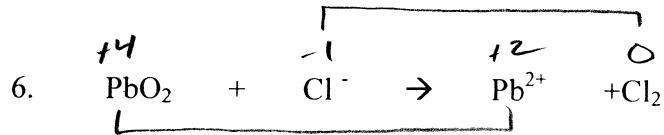
Element Oxidized _____ Element Reduced _____ RA _____ OA _____

Correct Equation:

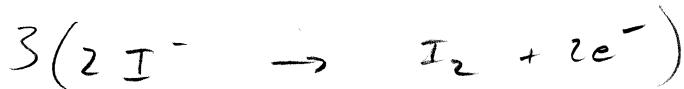
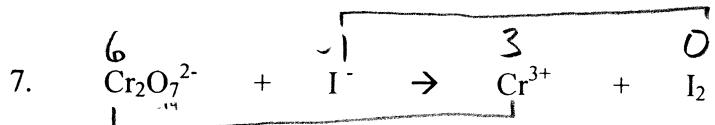
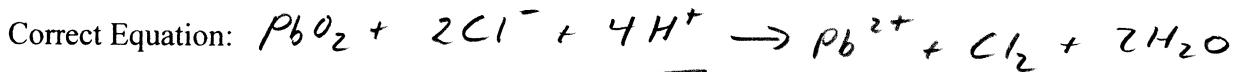


Element Oxidized Fe Element Reduced Mn RA Fe OA Mn

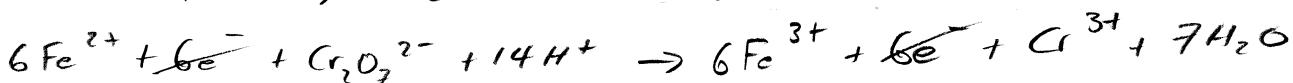
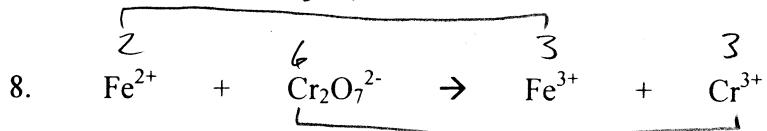
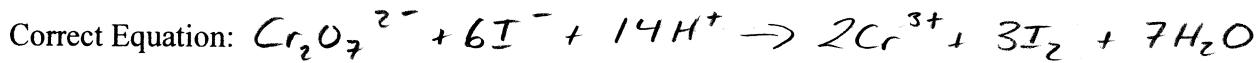
Correct Equation: $5\text{Fe}^{2+} + \text{MnO}_4^- + 8\text{H}^+ \rightarrow \text{Fe}^{3+} + \text{Mn}^{2+} + 4\text{H}_2\text{O}$



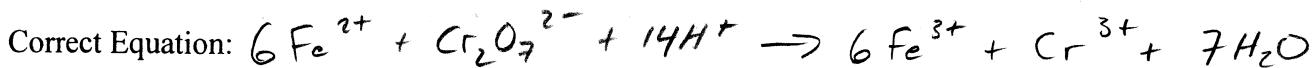
Element Oxidized Cl Element Reduced Pb RA Cl OA Pb

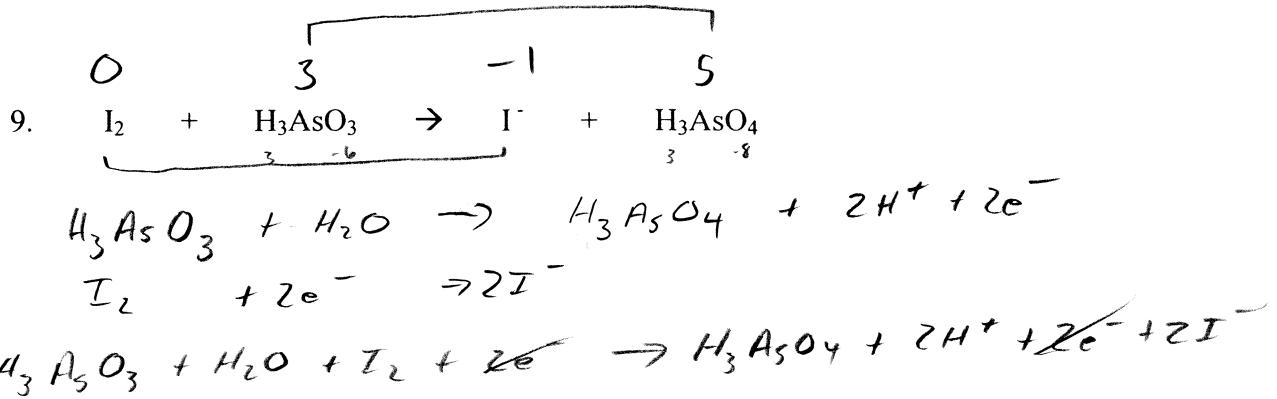


Element Oxidized I Element Reduced Cr RA I OA Cr

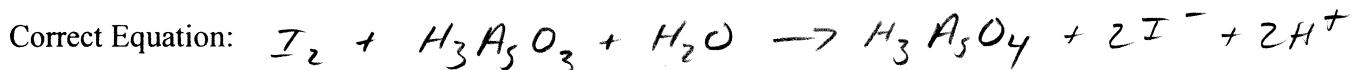


Element Oxidized Fe Element Reduced Cr RA Fe OA Cr

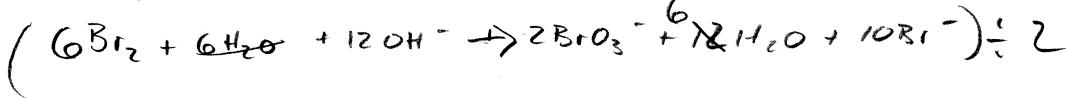
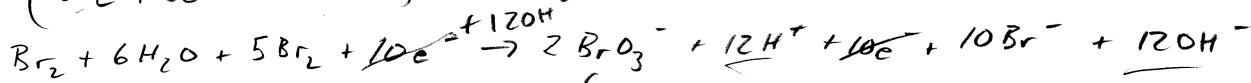
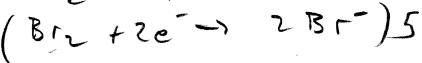
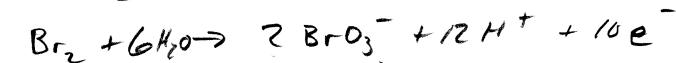




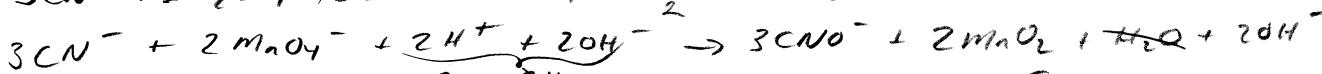
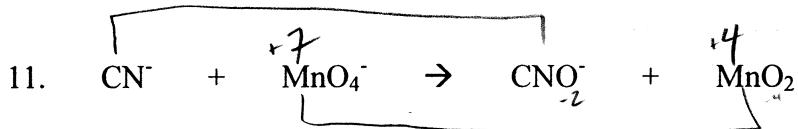
Element Oxidized As Element Reduced I RA As OA I



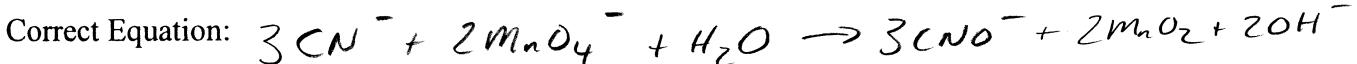
Basic Solution Problems

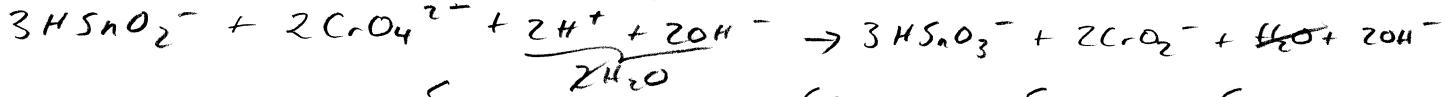
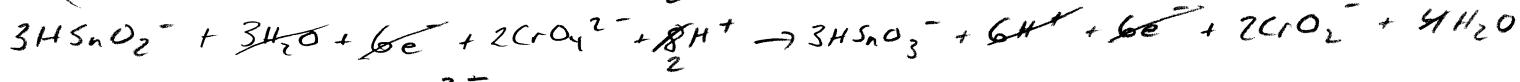
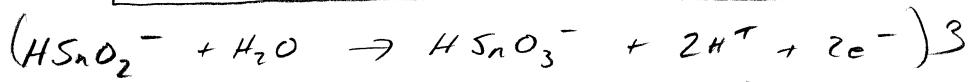
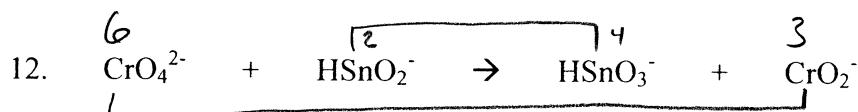


Element Oxidized Br Element Reduced Br RA Br OA Br

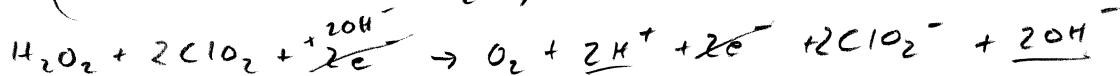
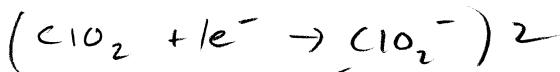
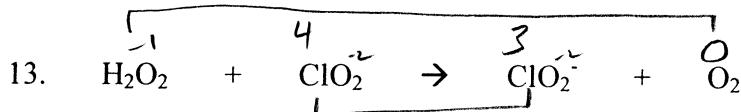


Element Oxidized C Element Reduced Mn RA C OA Mn

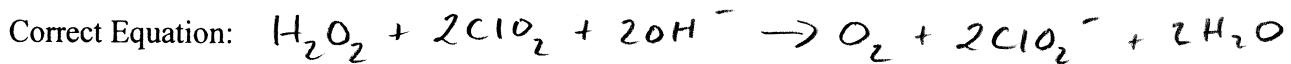




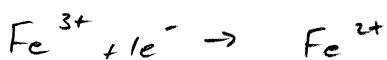
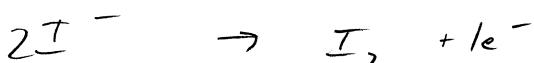
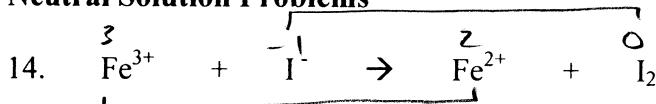
Element Oxidized Sn Element Reduced Cr RA Sn OA Cr



Element Oxidized O Element Reduced Cl RA O OA Cl



Neutral Solution Problems



Element Oxidized I Element Reduced Fe RA I OA Fe

