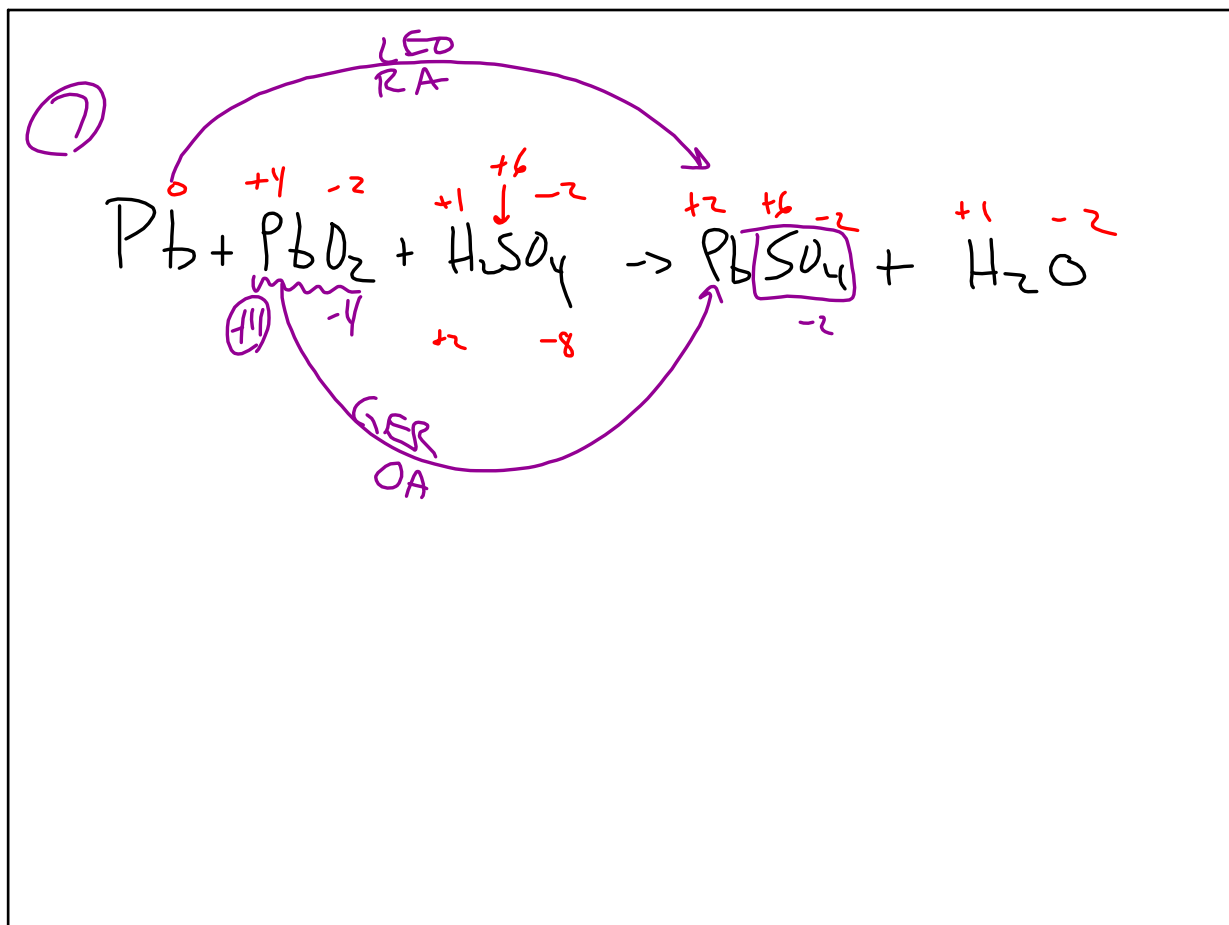
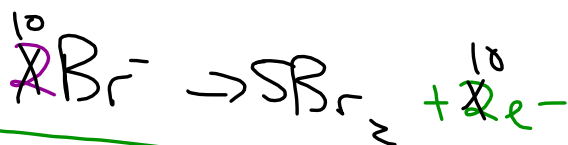
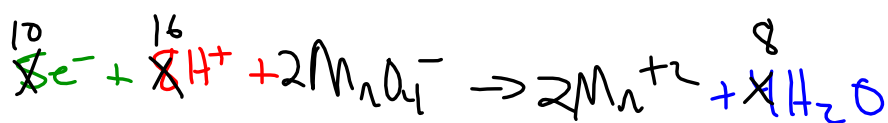


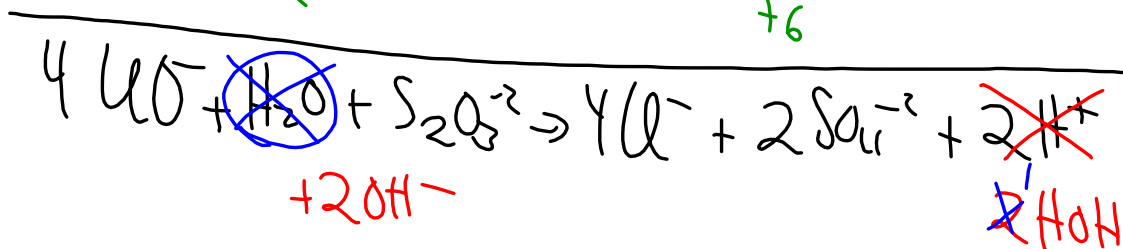
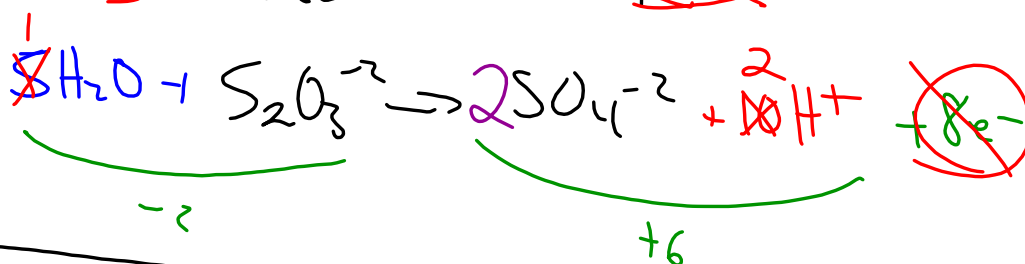
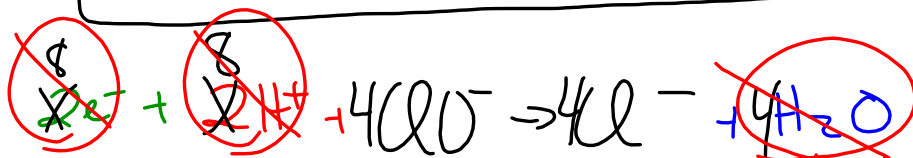
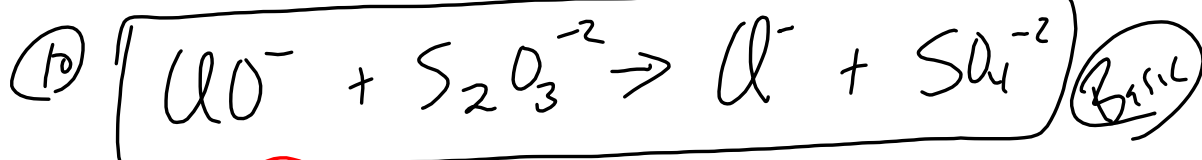
Apr 1-8:05 AM



Apr 1-8:18 AM



Apr 1-8:23 AM



Apr 1-8:26 AM

(13) An ox  $\rightarrow$  LEO

$\rightarrow$  #e-

✓ (9) Cr<sup>+3</sup>  $\rightarrow$  Cr<sup>+6</sup> + 3e<sup>-</sup>

(10) e<sup>-</sup> · F<sub>2</sub><sup>0</sup>  $\rightarrow$  F<sup>-</sup>

(11) O<sub>2</sub><sup>0</sup>  $\rightarrow$  H<sub>2</sub>O<sup>-2</sup>

(12) HAsO<sub>2</sub>  $\rightarrow$  As

$\begin{matrix} +1 & +3 & -2 \\ \text{H} & \text{As} & \text{O}_2 \\ \text{e}^- & & \end{matrix} \rightarrow \text{As}$   
 $\begin{matrix} +1 & -4 \\ \text{H} & \text{As} \end{matrix}$

Apr 1-8:36 AM

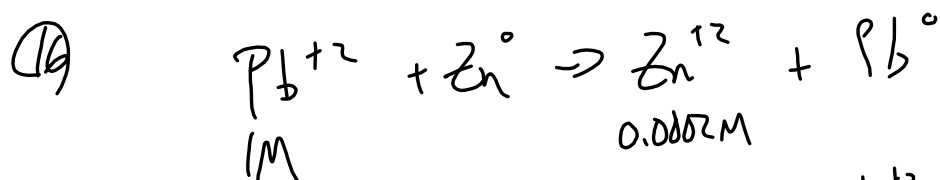
(14)  $\text{H}_2 + \text{O}_2 \rightarrow \text{H}_2\text{O}$

$\begin{matrix} +2 & -2 \\ \text{H}_2 & \text{O}_2 \end{matrix} \rightarrow \begin{matrix} +1 & -2 \\ \text{H}_2 & \text{O} \end{matrix}$   
 $+2 \quad -2 = 0$

(15) Spont  $\Delta G < 0 \quad K > 1 \quad E > 0$

Non Spont  $\Delta G > 0 \quad K < 1 \quad E < 0$

Apr 1-8:39 AM



$$E = E^{\circ} - \frac{RT}{nF} \ln \frac{[\text{Zn}^{+2}]}{[\text{Pb}^{+2}]}$$

$$E = +0.637 - \frac{(8.314)(298)}{(2)(96500)} \ln \frac{0.0002}{1}$$

$$\left. \begin{array}{l} \text{Pb}^{+2} \rightarrow \text{Pb}^0 - 0.126 \\ \text{Zn} \rightarrow \text{Zn}^{+2} + 0.763 \\ \hline + 0.637 \end{array} \right\}$$

Apr 1-8:42 AM