

Titration Graphs

Graph A: pH vs ml added. Shows a buffer region (A) and a sharp rise at the equivalence point.

OR

Graph B: pH vs ml added. Shows a buffer region (B) and a sharp fall at the Equivalence Point.

. Buffer - prevents any drastic change in pH.

May 11-9:20 AM

④

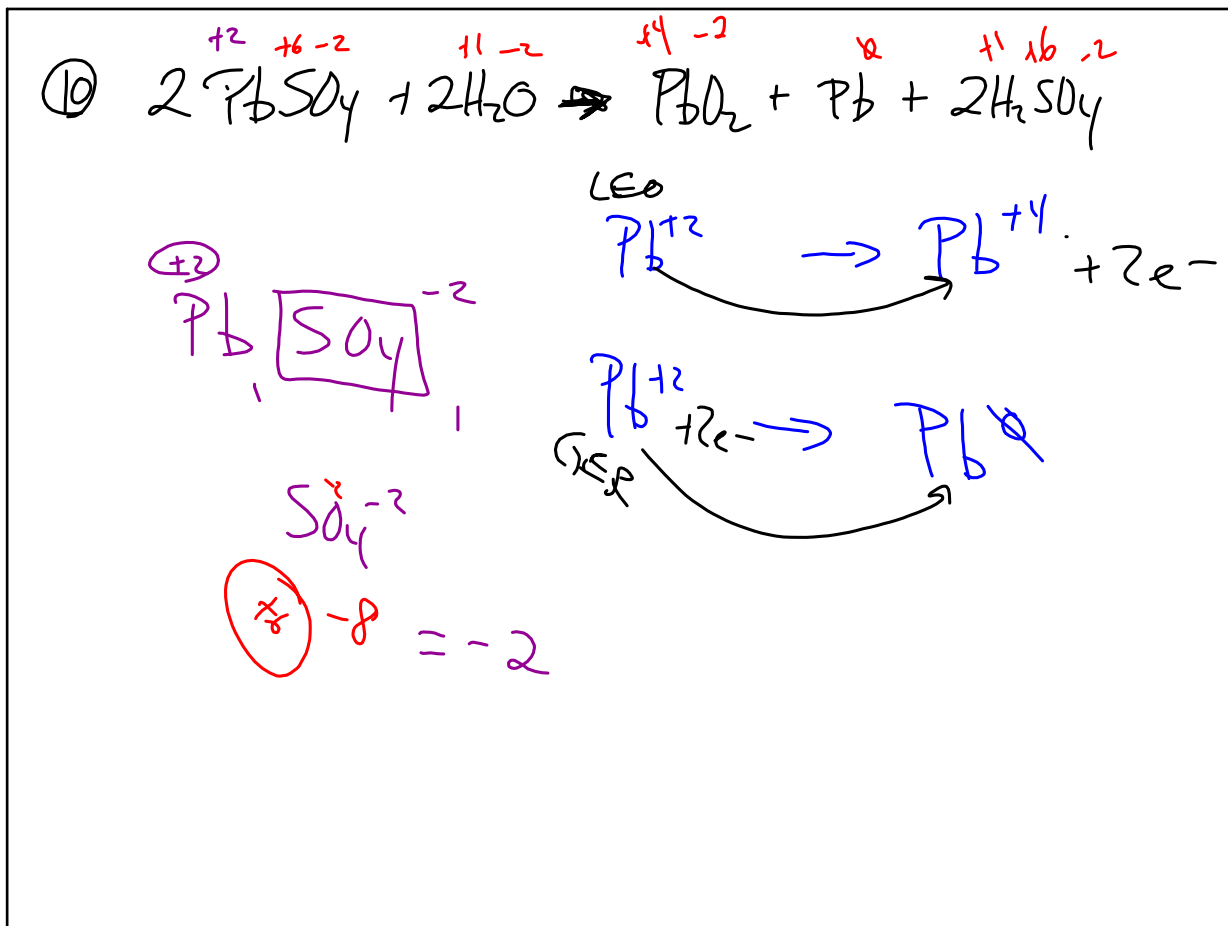
$$\begin{array}{ccccccc}
 \begin{matrix} +1 & +6 & -2 \\ \textcircled{+2} & \textcircled{+12} & \textcircled{-4} \end{matrix} & & \begin{matrix} +1 & -2 \\ & \end{matrix} & \rightarrow & \begin{matrix} +1 & -2 & +1 \\ & & \end{matrix} & & \begin{matrix} \times 3 & -2 \\ \textcircled{+16} & -6 \end{matrix} & & \begin{matrix} +4 & -2 \\ \textcircled{+4} & -4 \end{matrix} \\
 2 \text{K}_2\text{Cr}_2\text{O}_7 + 2\text{H}_2\text{O} + \text{S} & \rightarrow & 4\text{KOH} + 2\text{Cr}_2\text{O}_3 + 3\text{SO}_2
 \end{array}$$

$\text{K}^+ \quad \text{OH}^-$
 $\quad \quad \quad \downarrow \quad \downarrow$
 $\quad \quad \quad -2 \quad +1 = -1$

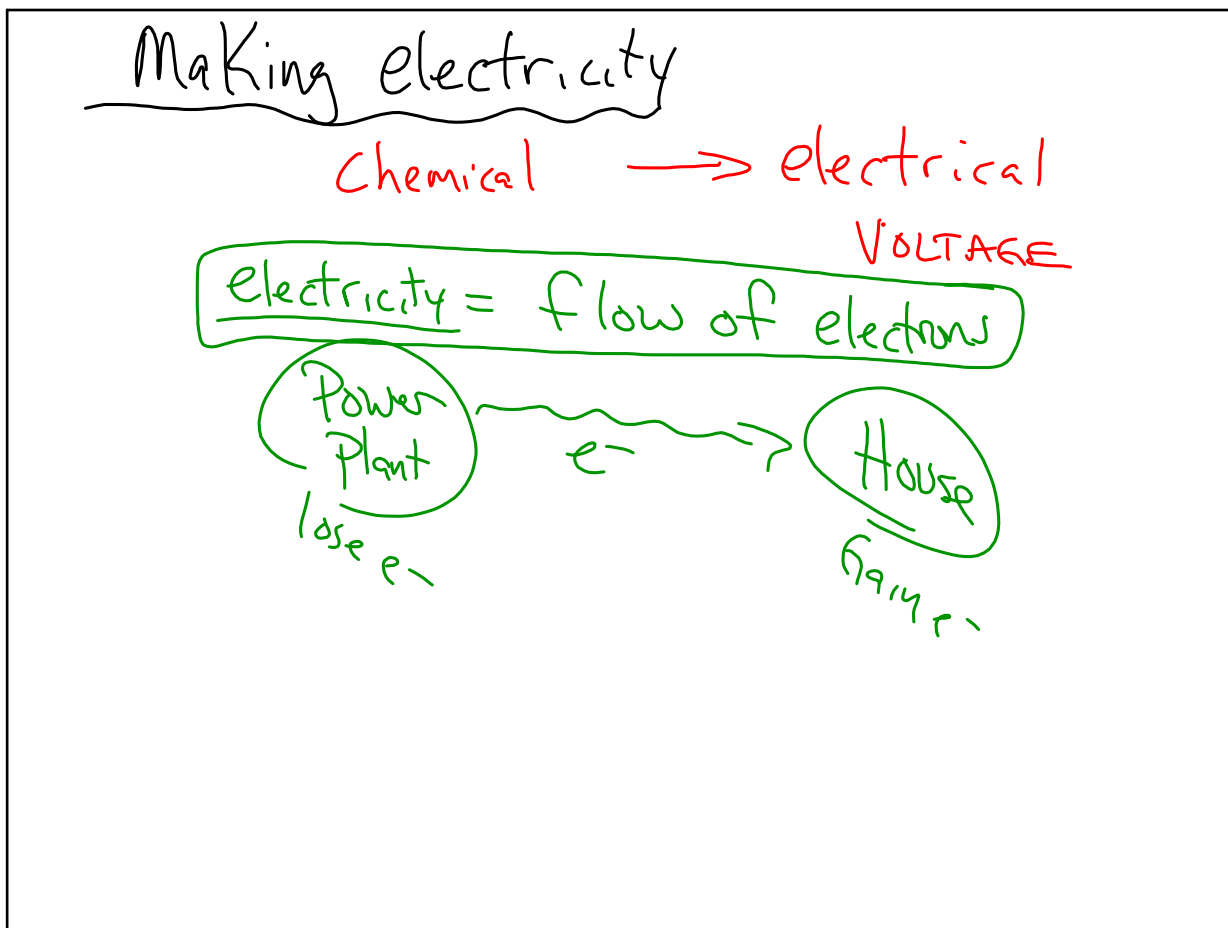
GER
 $\text{Cr}^{+6} + 3e^- \rightarrow \text{Cr}^{+3}$

LEO
 $\text{S}^0 \rightarrow \text{S}^{+4} + 4e^-$

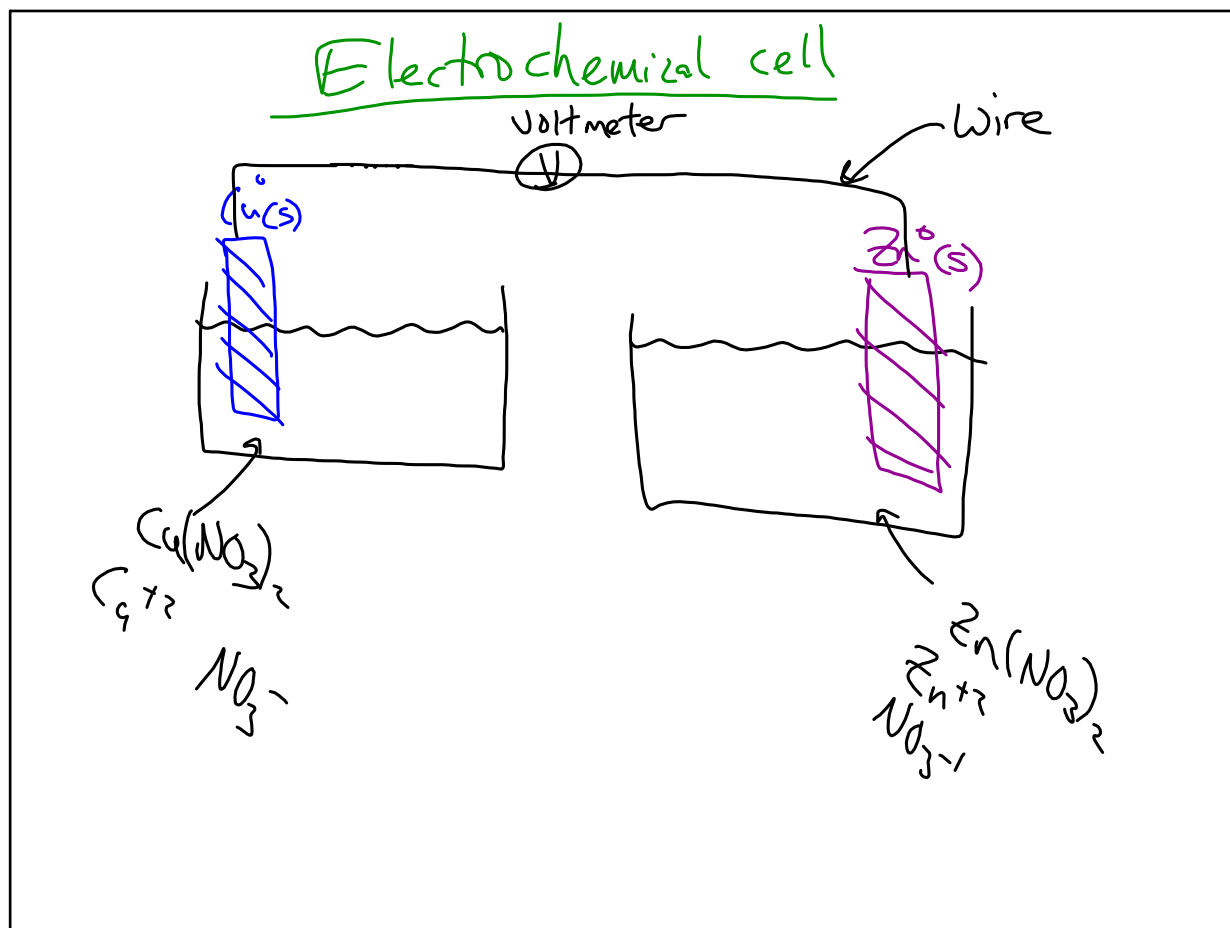
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May 11-9:48 AM



May 11-9:52 AM



May 11-9:58 AM

P 17 ODD

May 11-10:03 AM