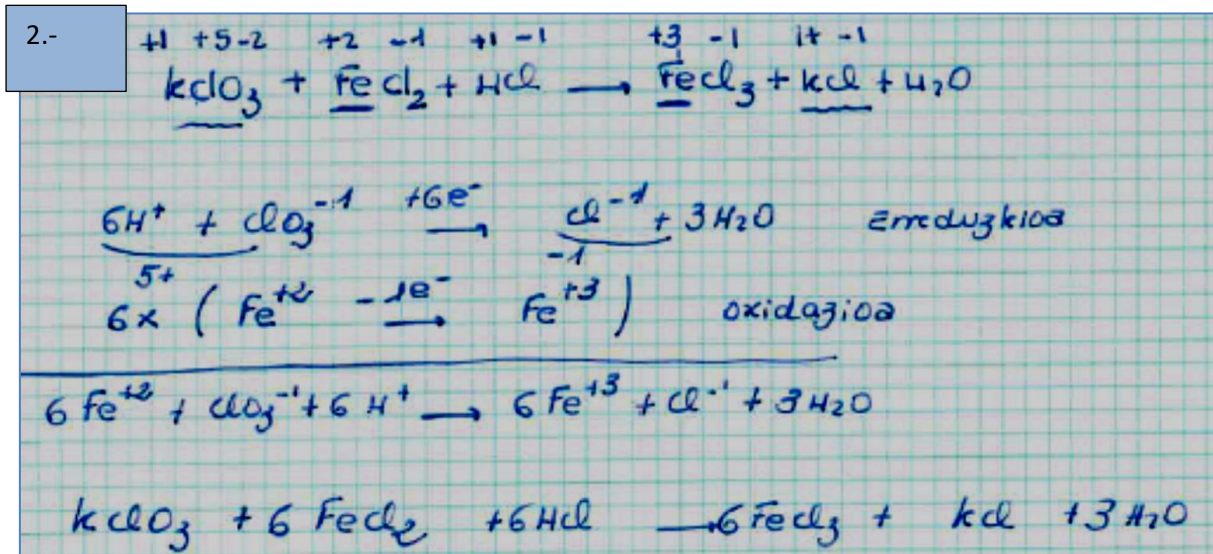
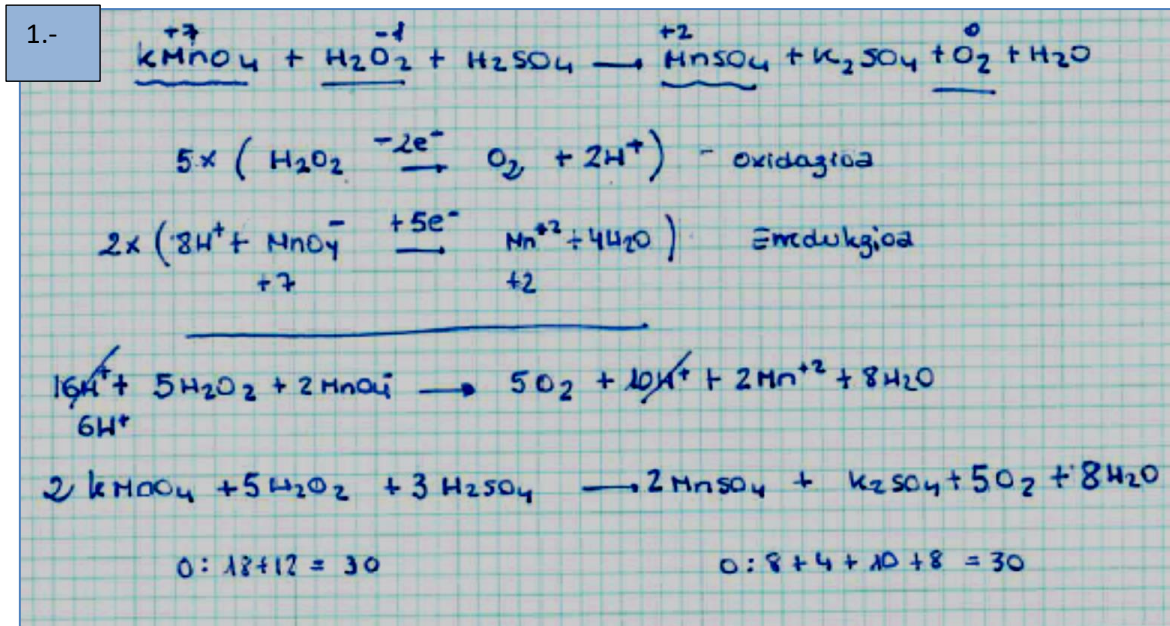
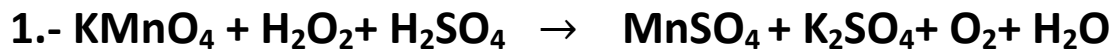
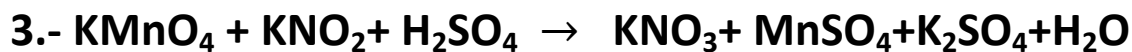


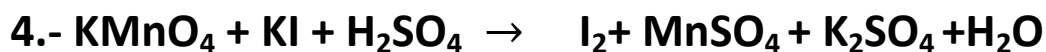
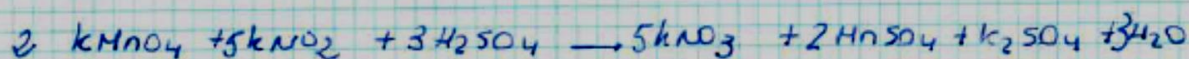
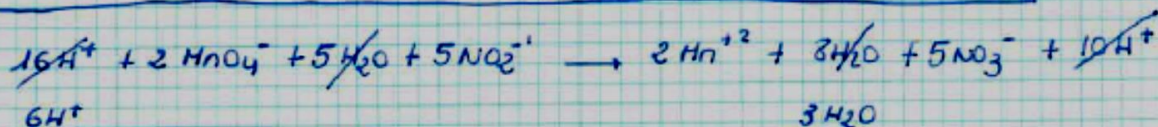
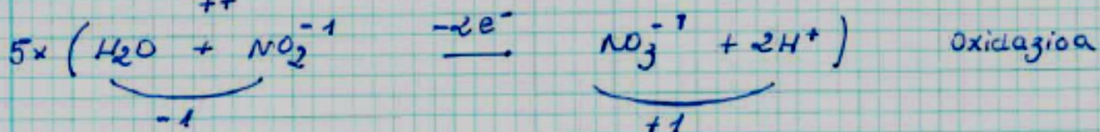
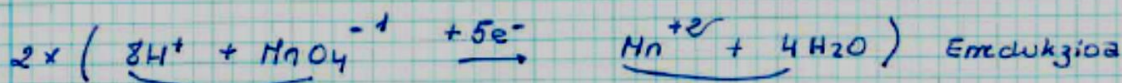
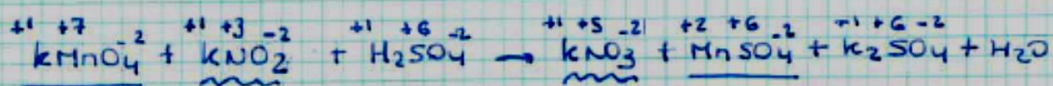
## IOI-ELEKTROI METODOA: ARIKETAK



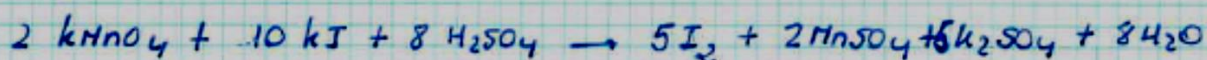
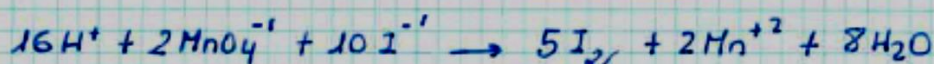
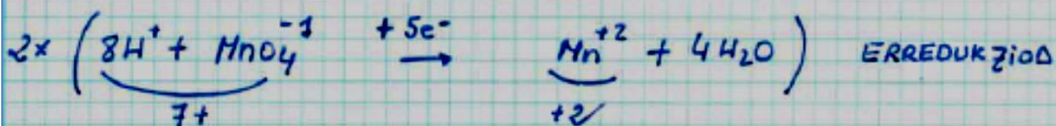
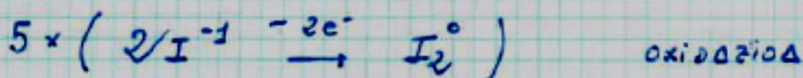
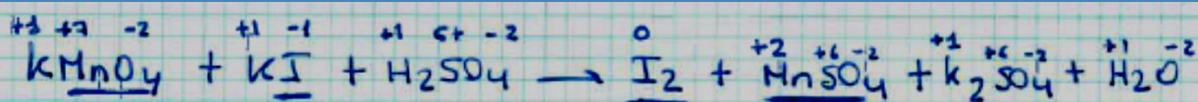
## IOI-ELEKTROI METODOA: ARIKETAK



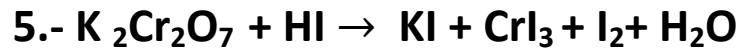
3.-



4.-



# IOI-ELEKTROI METODOA: ARIKETAK



5.-

$$K_2\overset{+6}{Cr}_2\overset{-2}{O}_7 + \overset{-1}{HI} \rightarrow KI + \overset{+3}{Cr}I_3 + \overset{0}{I}_2 + H_2O$$

$3 \times \left( 2I^{-1} \xrightarrow{-2e^-} I_2^0 \right)$       OXIDAZIOA  
 $14H^+ + Cr_2O_7^{-2} \xrightarrow{+6e^-} 2Cr^{+3} + 7H_2O$       ERREDUKZIOA

---


$$6I^{-1} + 14H^+ + Cr_2O_7^{-2} \rightarrow I_2 + 2Cr^{+3} + 7H_2O$$

$$K_2Cr_2O_7 + 14HI \rightarrow 2KI + 2CrI_3 + 3I_2 + 7H_2O$$


6.-

$$\overset{+1}{H}\overset{+5}{N}\overset{-2}{O}_3 + \overset{+2}{Pb}\overset{-2}{S} \rightarrow \overset{+2}{Pb}\overset{+6}{S}\overset{-2}{O}_4 + \overset{+4}{N}\overset{-2}{O}_2 + H_2O$$

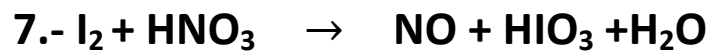
$8 \times \left( 2H^+ + NO_3^- \xrightarrow{+1e^-} NO_2 + H_2O \right)$       Erredukzioa  
 $4H_2O + S^{-2} \xrightarrow{-8e^-} SO_4^{-2} + 8H^+$       Oxidazioa

---

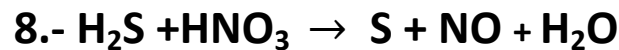
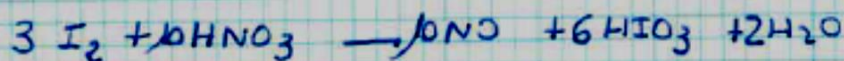
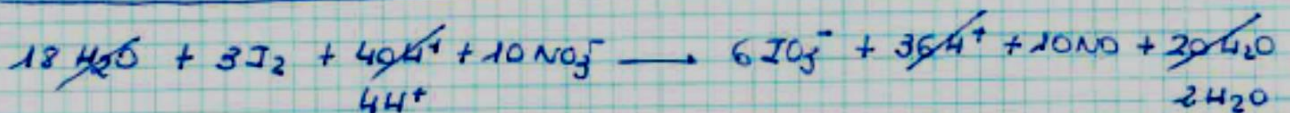
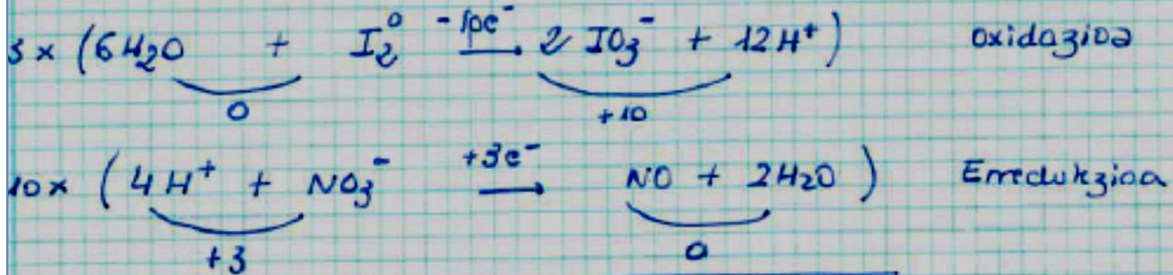
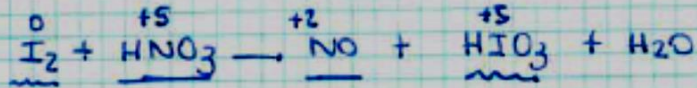

$$16H^+ + 8NO_3^- + 4H_2O + S^{-2} \rightarrow 8NO_2 + 8H_2O + SO_4^{-2} + 8H^+$$

$$8HNO_3 + PbS \rightarrow PbSO_4 + 8NO_2 + 4H_2O$$

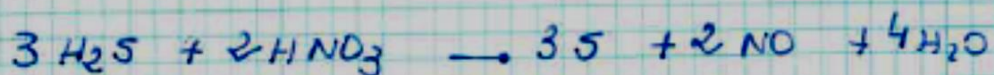
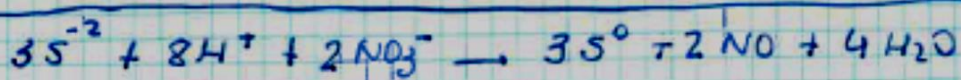
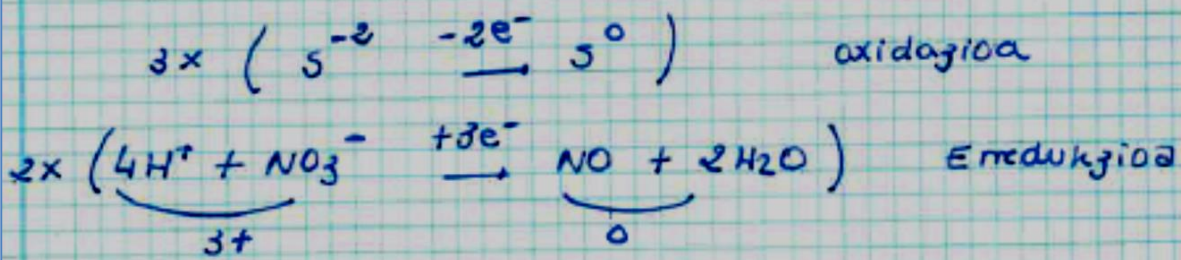
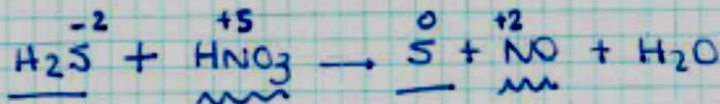
# IOI-ELEKTROI METODOA: ARIKETAK



7.-



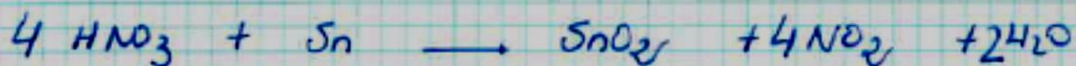
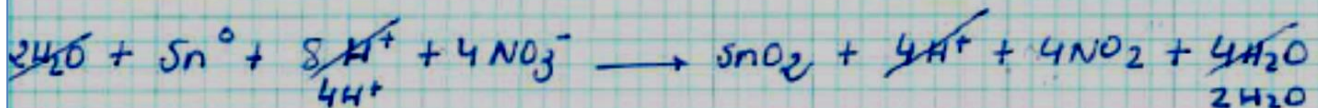
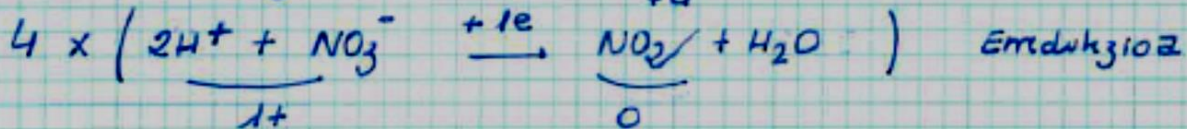
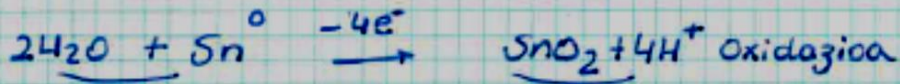
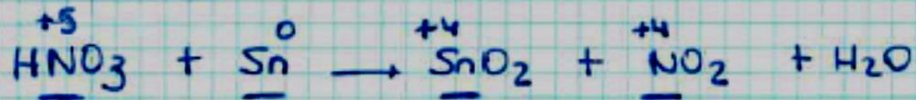
8.-



# IOI-ELEKTROI METODOA: ARIKETAK

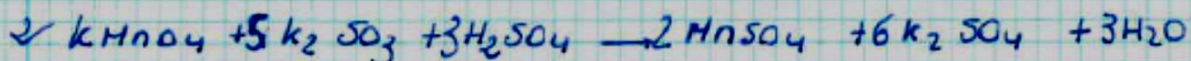
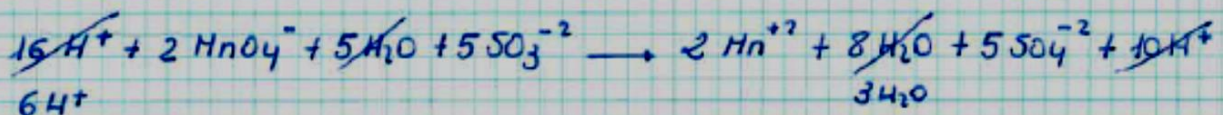
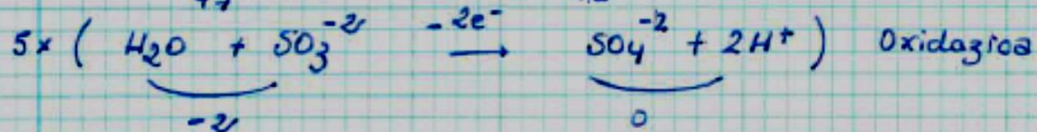
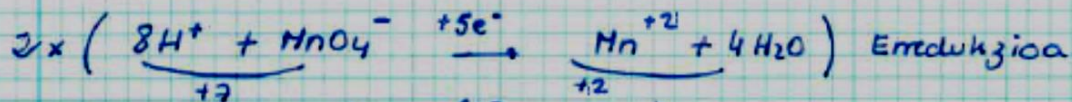
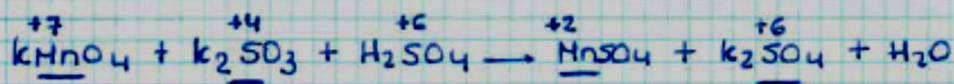
## 9.- $\text{HNO}_3 + \text{Sn} \rightarrow \text{SnO}_2 + \text{NO}_2 + \text{H}_2\text{O}$

9.-



## 10.- $\text{KMnO}_4 + \text{K}_2\text{SO}_3 + \text{H}_2\text{SO}_4 \rightarrow \text{MnSO}_4 + \text{K}_2\text{SO}_4 + \text{H}_2\text{O}$

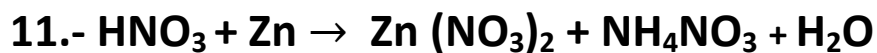
10.-



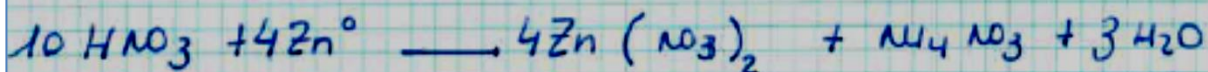
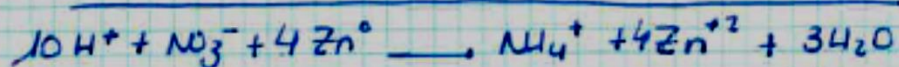
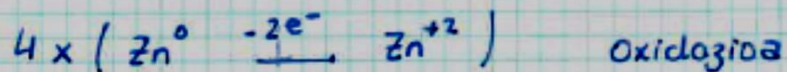
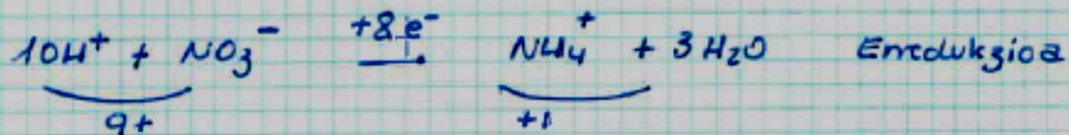
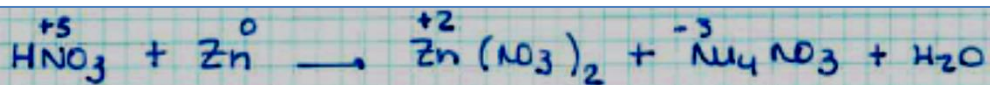
$$0: \underbrace{8 + 15 + 12}_{35}$$

$$0: \underbrace{8 + 24 + 3}_{35}$$

## IOI-ELEKTROI METODOA: ARIKETAK



11.-



12.-

