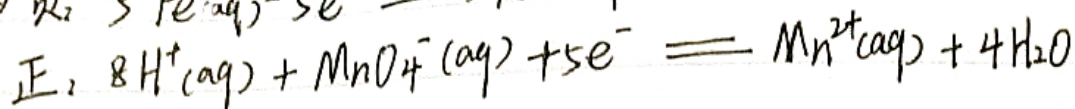
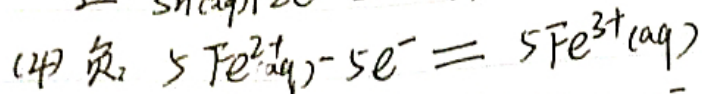
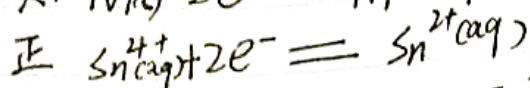
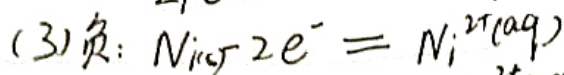
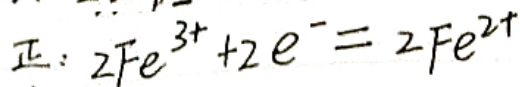
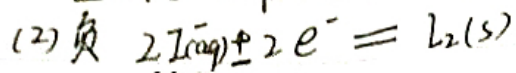
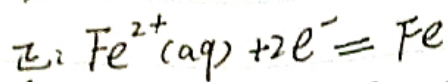
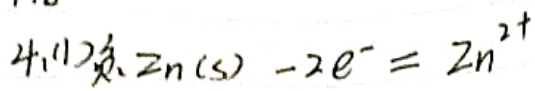
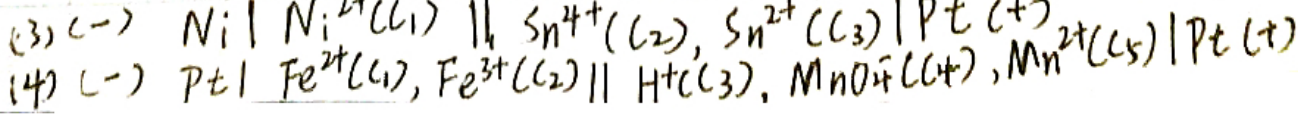
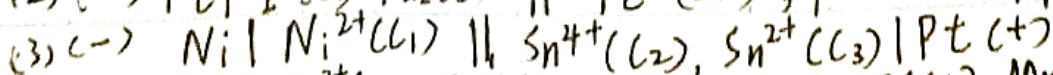
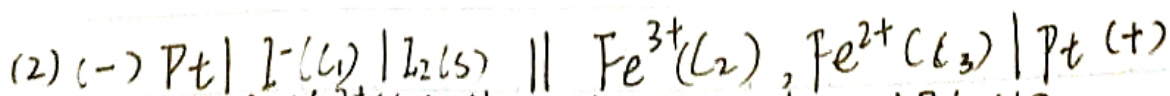
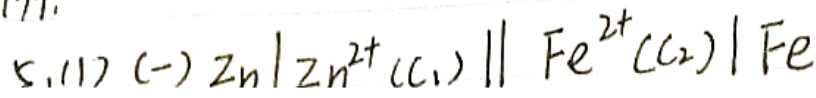


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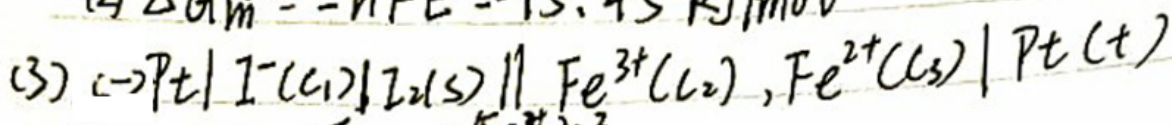


199.



$$9. \text{ ① } E^\theta = \varphi(\text{Fe}^{3+}/\text{Fe}^{2+}) - \varphi(\text{I}^-/\text{I}_2) = 0.2355 \text{ V}$$

$$\text{② } \Delta G_m^\theta = -nFE^\theta = -45.45 \text{ kJ/mol}$$



$$\text{④ } E = E^\theta - \frac{RT}{nF} \ln \frac{(\frac{c(\text{Fe}^{2+})}{c^\theta})^2}{(\frac{c(\text{I}^-)}{c^\theta})^2 (\frac{c(\text{Fe}^{3+})}{c^\theta})} = 0.058 \text{ V}$$