

Quiz 19.2 – Electrochemical Cells

Name: Kery

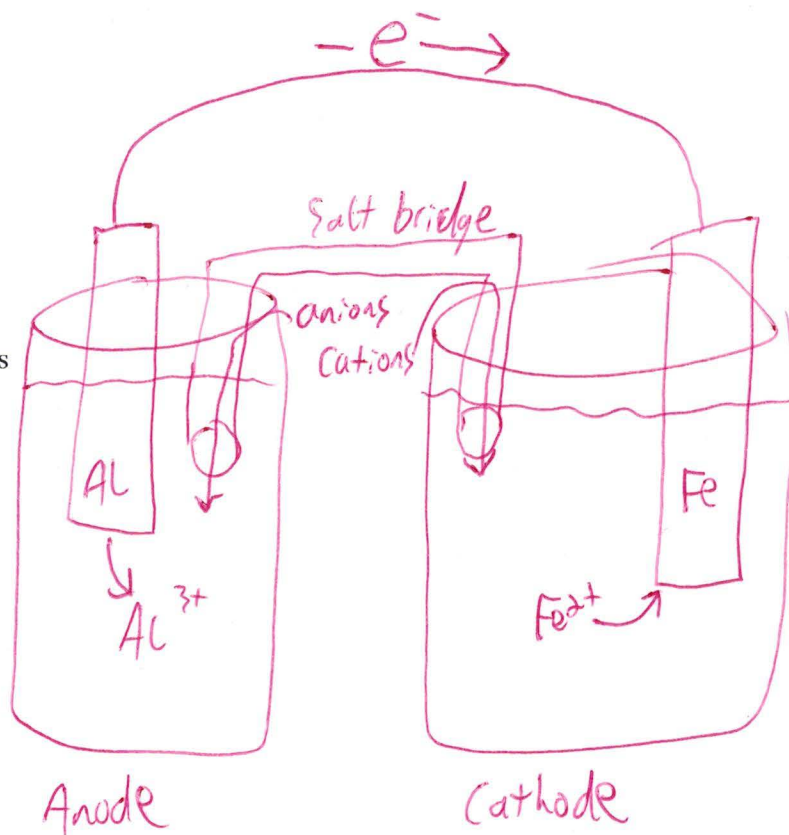
Question 1

Write the cell notation for a voltaic cell made by reducing $\text{Fe}^{2+}(\text{aq})$ to $\text{Fe}(\text{s})$ and oxidizing $\text{Al}(\text{s})$ to $\text{Al}^{3+}(\text{aq})$ 

Question 2

Sketch the cell, labeling:

- Anode
- Cathode
- Salt Bridge
- Direction of electron flow
- Direction of redox reactions
- Direction of ion flow



Question 3

Give the standard cell potential for this cell

$$E_{\text{cell}} = E_{\text{cathode}} - E_{\text{anode}} = -0.77 \text{ V} - (-1.66 \text{ V}) = 1.22 \text{ V}$$

Question 4

Is this a voltaic cell, or an electrolytic cell?

Voltaic