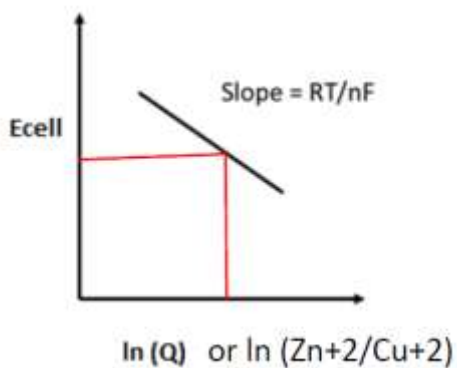


Experiment 8: Electrochemistry

S. No	Concentration of Cu^{2+} (M)	E_{cell} (V)
1	1.0	1.079
2	0.1	1.048
3	0.01	1.037
4	0.001	1.018
5	Unknown	1.054



Result:

Concentration of Cu^{2+} in unknown solution:

Questions:

- 1) Why is E_{cell} changing with change in Cu^{+2} concentration?
- 2) What is observed E^0 cell in this experiment?
- 3) What is the change in Gibbs's free energy for this electrochemical reaction?