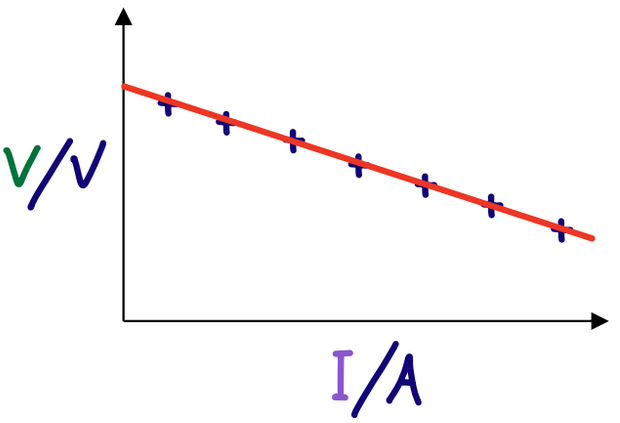
EMF and Internal Resistance - Results

$\varepsilon = V + Ir$

$V = \varepsilon - Ir$

$V = -rI + \varepsilon$

$y = mx + c$



Method 1: A cell was connected in a circuit in series with a variable resistor and with a voltmeter set up across the terminals of the cells. Readings were taken as the resistance of the variable resistor was changed, in order to calculate the internal resistance and original EMF of the cell.

The following data was recorded:

Terminal PD / V	Current / A
1.25	1.25
1.36	0.68
1.42	0.43
1.43	0.31
1.46	0.21
1.47	0.15
1.48	0.10