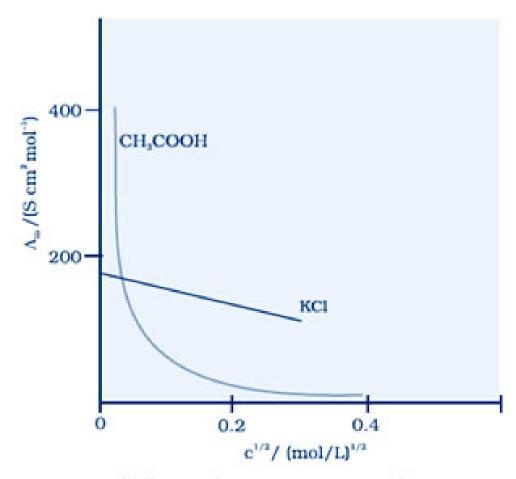
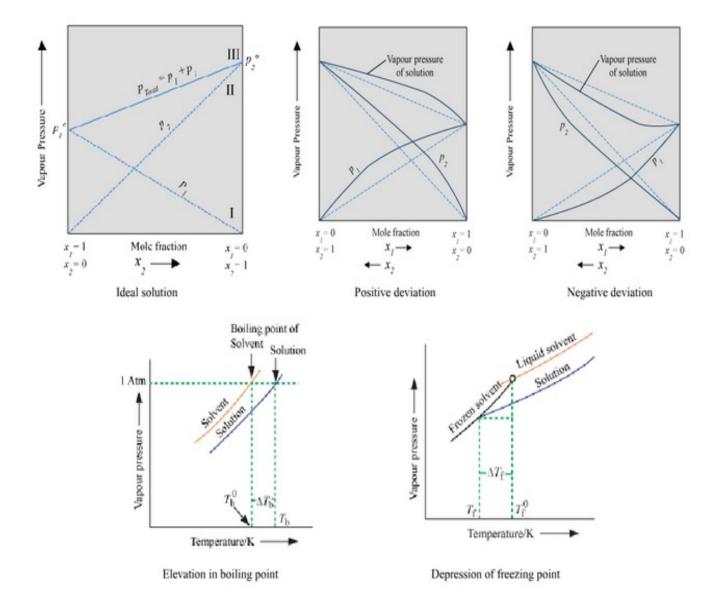
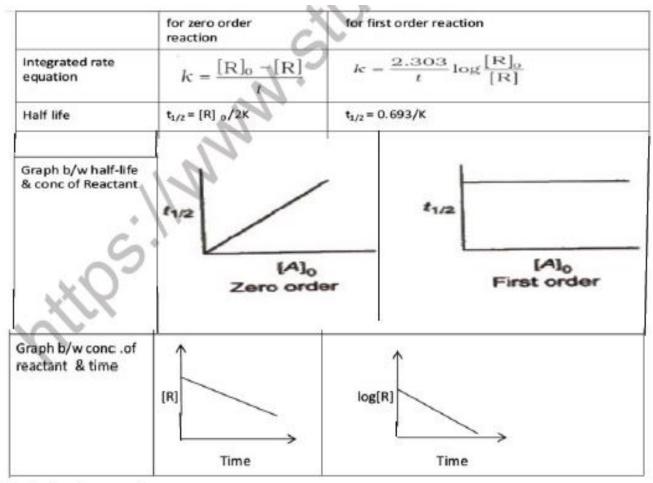
Important graphs

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Molar conductivity versus c½ for acetic acid (weak electrolyte) and potassium chloride (strong electrolyte) in aqueous solutions.



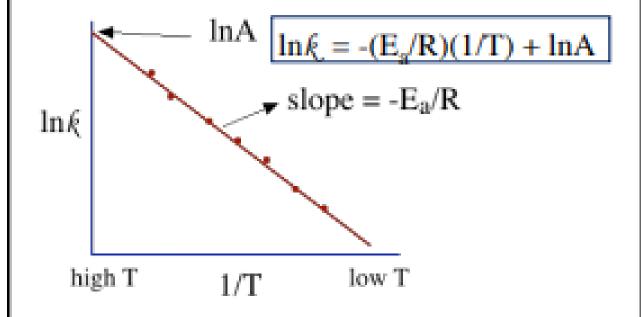


7. Arrhenius equation

 $log K = log A - E_{a}/2.303RT$

$$\log \frac{k_2}{k_1} = \frac{E_a}{2.303R} \left[\frac{T_2 - T_1}{T_1 T_2} \right]$$

Arrhenius Eqn., Graphical Form A "best fit" to many data is better!



5. Units of rate constants and graph between rate and conc. of reactant

Order of reaction	zero	first	second	third
Unit of rate constt.	MolL'1s'1	s ⁻¹	Mol ⁻¹ L ⁺¹ s ⁻¹	Mol ⁻² L ⁺² s ⁻¹
Relation b/w rate & conc of Reactant	Rα[A] ⁰	Rα[A] ¹	Rα[A] ²	Rα[A] ³
Graph b/w rate & conc of Reactant	R/\	RA	RA	R^
	[A]	[A] ¹	[A] ²	EAL

