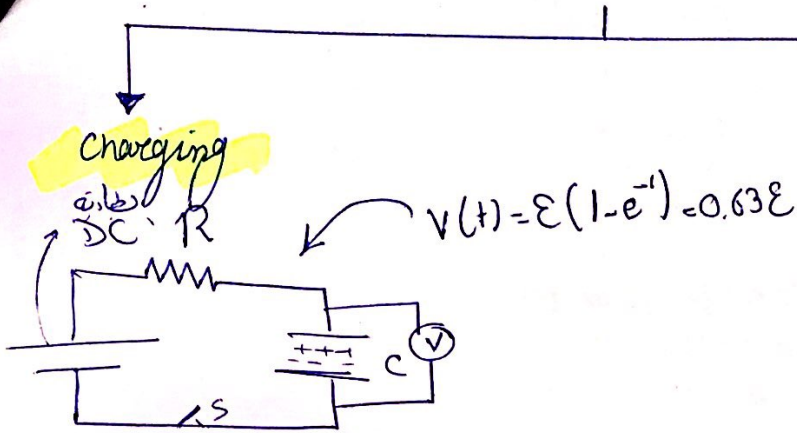
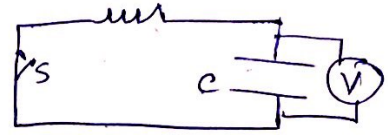


Exp 9: RC circuit



discharging



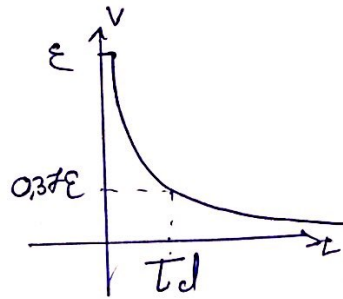
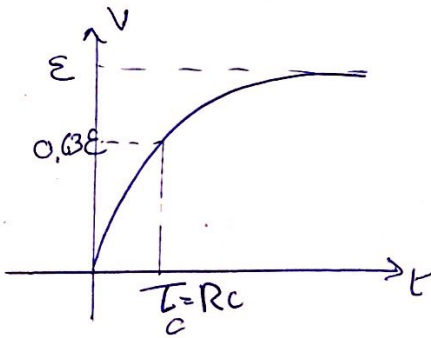
$V = \frac{Q}{C}$

$LCI = \text{Farad} = \frac{\text{colum}}{\text{Volts}}$

$V_C = 0.37E$

$\tau = RC$

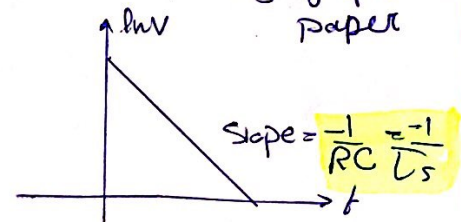
$V_C = 0.63E$



$\tau_c = \tau_d$ نظرياً

$\bar{\tau} = \frac{\tau_c + \tau_d + \tau_s}{3}$ يجمع

• on a semi-log graph paper

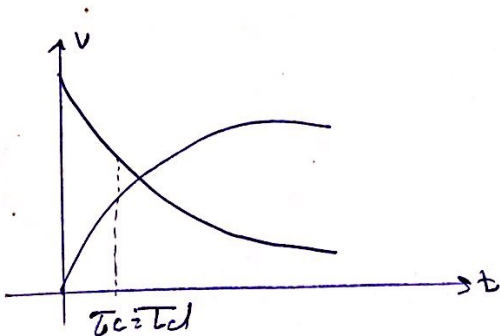


$\Rightarrow C = \frac{\tau}{R}$

$\frac{\Delta C}{C} \approx \frac{\Delta \tau}{\tau} + \frac{\Delta R}{R}$

where $\bar{\tau}$ is calculated = τ_m

Theoretically



Alaa Elaiwi