INSTITUTO POLITÉCNICO NACIONAL
CECyT 10 "CARLOS VALLEJO MÁRQUEZ"

FORMULARIO FÍSICA III

$Q = Ne$ $e^- = 1.6 \times 10^{-19}\ C$	$F = K\frac{Q_1 Q_2}{r^2}$	$F_R = \sqrt{\left(\sum F_x{}^2 + \sum F_y{}^2\right)}$
$m_e = 9.11 \times 10^{-31}\ kg$	$\sum F_x = F_1 cos\,\theta_1 + F_2 cos\,\theta_2$	$A = tan^{-1}\frac{\sum F_x}{\sum F_y}$
$K = 9 \times 10^9\ \frac{Nm^2}{C^2}$	$\sum F_y = F_1 sen\,\theta_1 + F_2 sen\,\theta_2$	$k = \frac{1}{4\pi \cdot \varepsilon}$
$E = \frac{F}{Q}$	$\sigma = \frac{q}{A}$	$EP = K\frac{Q\,q}{r}$
$\varepsilon = \varepsilon_o \cdot \varepsilon_r$	$\varepsilon_o = 8.85 \times 10^{-12}$	$C = \varepsilon\frac{A}{d}$
$W = F \cdot d$	$E = \frac{Q}{\varepsilon_o A}$	$\lambda = \frac{q}{L}$
$Q = CV$ $Q_T = Q_1 = Q_2 = \cdots = Q_n$ $V_T = V_1 + V_2 + \cdots + V_n$	$C_t = \frac{1}{\frac{1}{C_1} + \frac{1}{C_2} + \cdots + \frac{1}{C_n}}$	$W = \frac{1}{2} C V^2$ $W = \frac{1}{2} QV$
Req= R1 + R2 + Rn	$C_T = C_1 + C_2 + \cdots + C_n$ $Q_T = Q_1 + Q_2 + \cdots + Q_n$	$R_t = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \cdots + \frac{1}{R_n}}$ **$1 Coulomb = 6.25x10^{18}$ electrones**