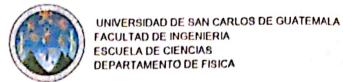
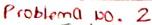
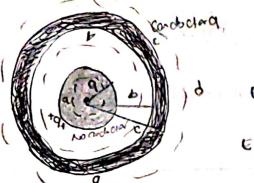
## HT No: 3



	Nombre: Kemel Josue EFran Rumo Jeronino FÍSICA II 182022
	Carné: 202006333 Sección: " P 11
	Profesor: BAYRON ARMANDO CUYAN Auxiliar: Jose Bolux
	Puede iniciar su hoja de trabajo a partir de aquí
Prol	olema No. I
	Cos (aon De = Oonce
//	Qine = (5.65 + 106)(885-15'2)
1	Conductor a Deno = 50 MC
	blue on all forces of escritors
	and the superior
	= 10.0 cm } Da= 5.00
	0 = 1 $0 = 100  MC$
	= 200 cm $\frac{1}{2}$ $\frac{1}{$
	<del></del>
	det. la mognitud del E a una distancia de 60.cm
del (	Gentro de la configuración  SE. JA = Deno Deno = Ocasica on Ex
	F=60.0 cm (80
	$E \left[ 4\pi (^{2}) \right] = 0 \cos(\alpha \cos \theta) \cdot 6\pi +$
	ε.
1	E = K Orasioon Exp = K (130 M)
	(2 (0.6)2
	5 = 3.25.106 N/C
	<u>—————————————————————————————————————</u>





Q = 5.00(m (0 = 15.0 0 M 91 = 12.0UC { 9, = -15MC

Oero = 0

a) La mayated del E, encapeano 4.00cm del contro a 19 configuracon.

declara, configuración.

$$\frac{\partial E.dA}{\partial E.dA} = \frac{\partial mc}{\partial C}$$

$$\frac{\partial E.dA}{\partial C} = \frac{\partial mc}{\partial C}$$

$$\frac{\partial C}{\partial C} = \frac{\partial C}{\partial C}$$

$$E(4\pi i^2) = \frac{Q_{and}i^3}{Q^3 \epsilon_0} = E = K(Q_{ind}i)$$

b) " 
$$b \in \mathbb{R}$$
 =  $0 = 0$   $0 = 0 = 0$   $0 = 0$   $0 = 0$   $0 = 0 = 0$ 

$$\int \vec{E} \cdot \vec{d} \vec{A} = \frac{O \cdot n \cdot O}{\epsilon \cdot O}$$

$$\vec{E} = \frac{O \cdot n \cdot O}{\sqrt{2}} = \frac{1.08 \cdot 10^{3} \cdot 10^{2}}{1.08 \cdot 10^{3} \cdot 10^{2}}$$

$$\vec{E} = \frac{1.08 \cdot 10^{3} \cdot 10^{2}}{1.08 \cdot 10^{3} \cdot 10^{2}}$$

c) 11 del E, si hado a 14.0 cm 11 11.

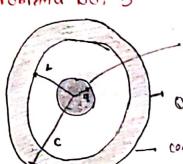
$$\oint \vec{E} \cdot d\vec{n} = \frac{Onc}{\epsilon o} - \epsilon (4\pi)^2 = \frac{Ook}{\epsilon o}$$

ONG = Orse + Ob = 120MC - 12.0MG

1) " del E, situad a z4.0cm 11.

$$6 = \frac{2000}{12} = \frac{2(3.04)^2}{(0.24)^2} = 4.69 \times 10^5 \text{ Pl} \text{ C}$$

## Problema NO. 3



$$Q_{ij} = +29$$
  $E[4\pi i^{2}] = \left(\frac{0.00}{24\pi 0^{3}}\right)[4/5\pi i^{2}]$ 

$$5 = 9 r$$

$$\frac{2}{\mu l \sigma}$$

E = 0 w/c

C) F paa bzrzC

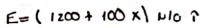
$$\frac{\epsilon_0}{\epsilon_0}$$

$$E = \frac{9}{2\pi r^2 \epsilon_0} PIC$$

$$5[4\pi r^2] = \frac{39}{60}$$

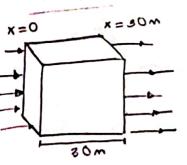


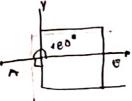
## Problema NO. 4



a) El Flojo E mlacaa i Landa

\$ E. da = Oper 0 Onc = 29 - 29 = 0

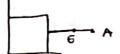




$$\overline{I} = E A \cos E A$$

$$\overline{I} = (1,200)(30)^{2} \cos 180 = -1.08 \cdot 10 \, \text{um}^{2}$$

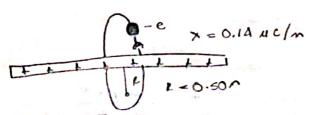
6) El Finjo E mio cara direcha del outo.



el La corga E naroda en dobbo.

I TOFOI = - 1.08 + 106 + 3.78 + 106 = 2.7 + 106 N. m3/0

problema 100: 5



C) 
$$F = m_e Q$$

$$Q_t = \frac{F}{m_e} = \frac{8.05 \times 10^{-10}}{9.11 \times 10^{-5}}$$

$$0t = \frac{Vt^{2}}{R}$$

$$VR = \int e \, 0t$$

$$Vt = \int (0.5)(8.843) \cdot 10^{14}$$

$$Vt = 21.0 \cdot 10^{6} \, n/s$$

$$E = \frac{F}{9} - F = E9$$

$$E = (5.04.10^{3})(1.60 \times 10^{-19})$$

$$E = 8.05 \times 10^{-16} \text{ fradal hada adonto}$$