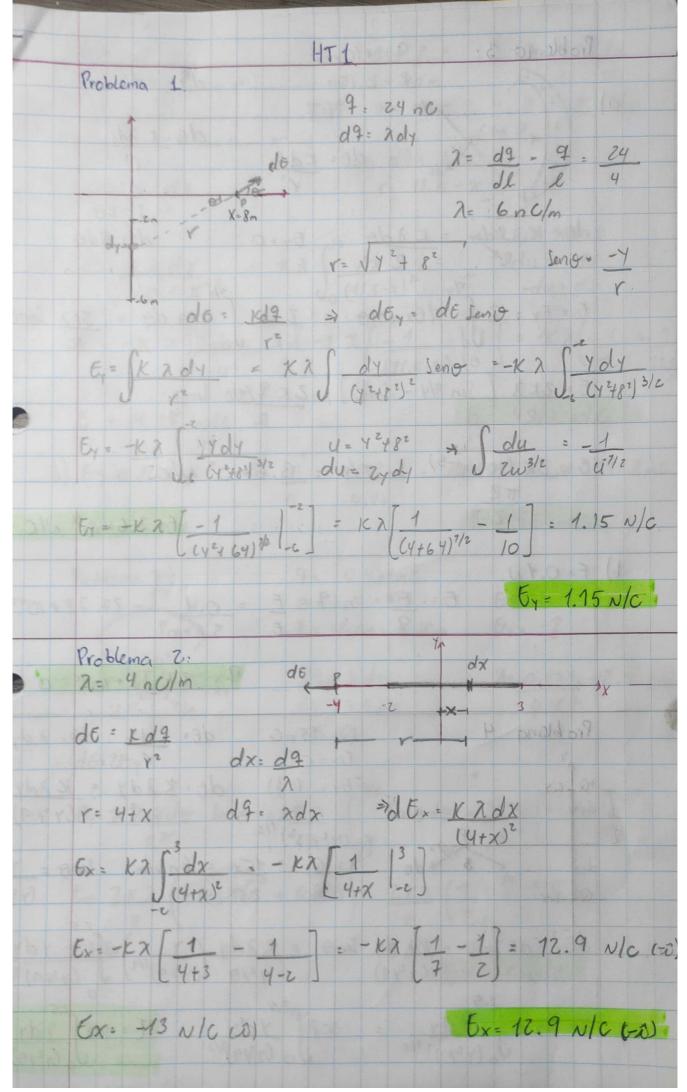


UNIVERSIDAD DE SAN CARLOS DE GUATEMALA FACULTAD DE INGENIERÍA ESCUELA DE CIENCIAS DEPARTAMENTO DE FÍSICA FISICA 2 INGA. CLAUDIA CONTRERAS

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HT	X	APELLIDOS: González García	a	
No.		CARNÉ:		D_{\perp}
1		201709088	2S2023	DT



7 8	= 8.00 = 3.5 E= Mo	nC/m.	ds= Rd		R= 5/0	d7=	7 ds. 7 Rd0 = 3.5 T1/z 7/T	
	6x: 1x 7	de Sen	0. 0	(8n)	2 de case R [-aso]	The = K		-(2010)
6		So cole	de = 1c		Sino 10 -			
Pro 10 2.5 4 e du	de 3.	By = (19 + 6x = 0 → d6	3) a d9=	= 150 2.5m 2.5m	= 6nClm.	de = rd	$\frac{1}{(x_1^2+9)^7}$ $\frac{1}{9} = \frac{1}{(x_1^2+9)^7}$	
Ty Oy					$08 \int_{0}^{2.5}$		7 12/4) 1/2) 3/2	
				16	l= 108 S	2.5 Y d' O (y ² + 9	1)3/2	ilc.

Problema 5: 9: +10m0 R=0.15m d9: 2d5.10m	
192 7 16 10	1
	-
a) /+/- , de /= R	
HRED DE KARS	
+ de- Kd9 12	
1 de 10 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -	
S= 20	
do= K28do = K7do 64=0 do= 8do.	
PX 7 0 04=0	
	17/4
6 = 0x = 2 d 0x coso = 2 xx coso do = 2xx	
To dox loso and	
E = 2K2 [Sen 11/4 - Sertio] = 2K9/1/2 Sen II	
2 2 4	-
E = 2k (10 × 10-3) In Ti/4 = 3.6 × 109 N/C.	
TR.	
6=3.6×109 NIC	
0-3.6 10 10	1. 1
b) F= 0.1 N.	
6= F > 9= F = 0.1 = 27.78 * 10	-12
q = 0.1 = 07. 78 F/O	
3.6.70	
9 = 27.78 × 10-1c C	A

Problema 6:	7 = 8nC $7 = 9 = 8nC = 10m$ $C = 10$
0)	$\frac{1}{\sqrt{1-\frac{1}{2}}} \int_{-\infty}^{\infty} d\theta = \frac{1.50}{2} = \frac{1.50}$
dE: KAdx	r= 11.5-x
	$x' = 1/2 \int_{0}^{1/2} dx = u = 11.5 - x$ $x' = 1/2 \int_{0}^{1/2} (11.5 - x)^{2} = du = -dx$
	$\frac{du}{u^{2}} = -162 \left[-\frac{1}{11.5 - 20} \right]^{10} = -22 \left[-\frac{1}{1.5 - 11.5} \right]^{10}$
E = 4.17	NIC. E= 4.17 N/C.
b) F= 0.8 N.	9= F = 0.8 = 0.1918 C = 191.8mc F 4.17 F= 192 mC
Problema 7	9 = 0.471nC $9 = 60^{\circ} = \sqrt{3}$ $6 \times = 0$
	R = 18. cm = 0.18 m $Gy = -3$
de de de	R = 18. cm = 0.18 m $6y = -3d9 = 2 ds$ $R = 0.431 = 2.50$
de de de	$R = 18. cm = 0.18m \qquad 64 = -3$ $d9 = 2 ds \qquad 2 = 0.431 = 2.50$ $d9 = 2 Rd0 \qquad 0.180$
de de de	$R = 18. cm = 0.18m \qquad 64 = -3$ $d9 = 2 ds \qquad 2 = 0.431 = 2.50$ $d9 = 2 Rd0 \qquad 0.180$
de 26 y de 27 de de 27 de de 27 de de 27 de de 27 de	$R = 18. cm = 0.18m \qquad 5y = -3$ $d9 = 2ds \qquad 7 = 0.431 = 2.50$ $d9 = 2R $
de 26 y de 27 de de 27 de de 27 de 22	$R = 18. cm = 0.18m$ $dq = \lambda ds$ $dq = \lambda Rd\theta$ $V = R$ $Sene = 2K \lambda$ $R = 18. cm = 0.18m$ 0.18θ 0.18θ $R = 18. cm = 0.18m$ $R = 18. cm = 18. cm$ $R = 18. cm$