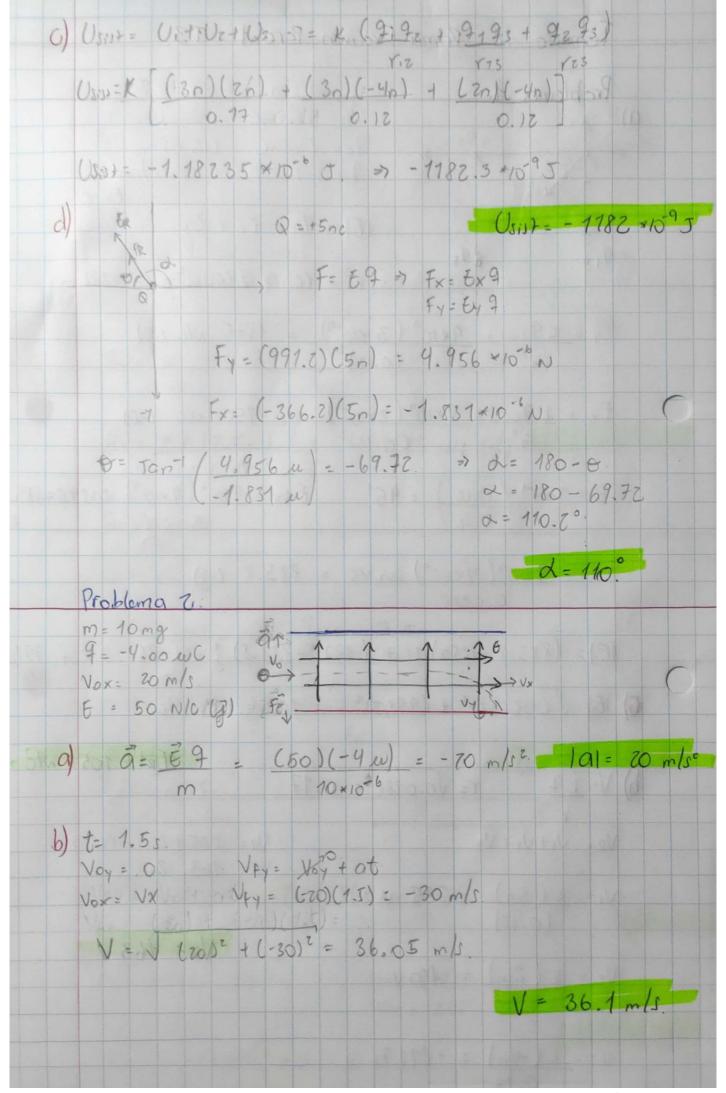
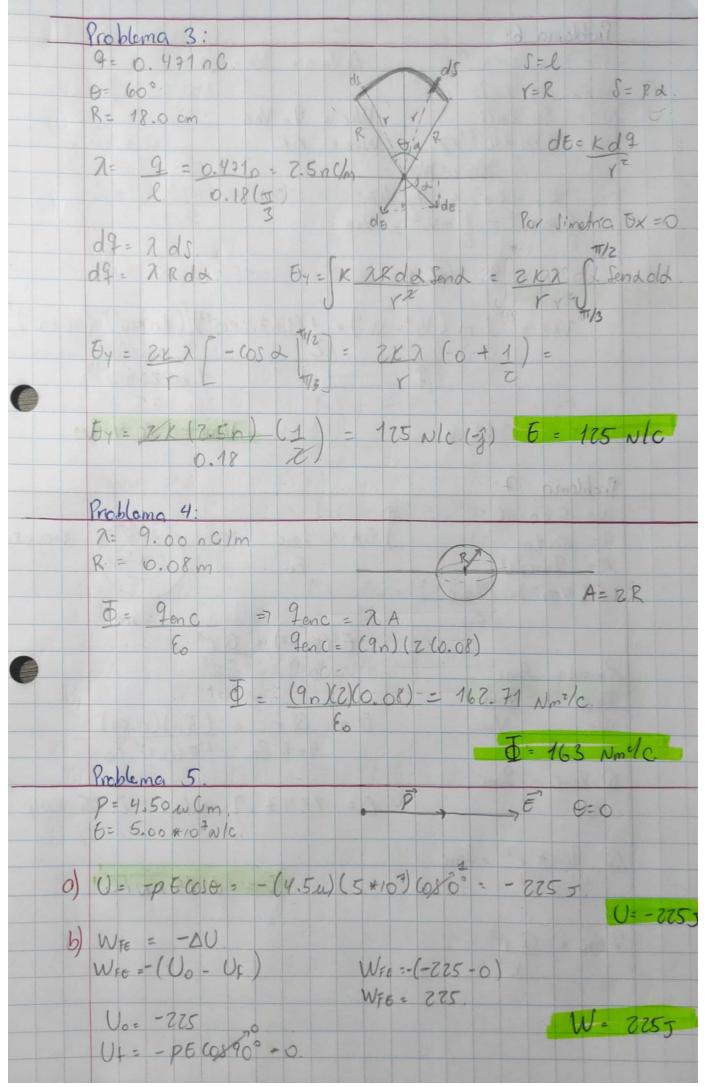


## UNIVERSIDAD DE SAN CARLOS DE GUATEMALA FACULTAD DE INGENIERÍA ESCUELA DE CIENCIAS DEPARTAMENTO DE FÍSICA FISICA 2 INGA. CLAUDIA CONTRERAS

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No.		CARNÉ:		R +
3		201709088	2S2023	יט

Problema 1:				A LEI
a) is 1	9= 3.	oonc	(0, -12) e	2
12 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	y 92 = 2	oonC		
1637	93 = -	4.00nC	(12, -12)	
5 7	I   2	61 + Ez +	Fiz	E= K9
+91 693	101			
	18 = 1	(0.12) = 16	0.12)2=	0.0288 m.
	0 (9)	107	1	
B1 = X91 = 9×10	(3×10)	= 1875	NIC 13	3).
M	(0.10)			
Fz = K92 = 9x11	09 (7×10-9)	= 1750	N/c.	(-0)
	(0.12)2			
	3 2 2		01.	0
0 = Tan (0.12)	= 45			
0.12/			0.028	8
E34= 9×109 (4×10	1) Sen 45 =	883.8	(-1)	
8850.0				Rollen
10		\	1	24
151= (883.8-1250)	2 + 1 1875	-883.8)	1 = -	366.2 x +
€   EN= V C-366.Z) = +	(9917)2	1056	68 110	
9 190 1 0 366.63				
S SIDTE SANCE	2 6 8 8 1	0411	16	jel - 1057
b) V= K9 r= Vo	0.0288 = 0.	.17	14	
Y				201
NR= V1+ V2+ V3			163.	150 - 711.7
VI = K (30) = 71	75 V	VIE =	765.	V .
(0.12)	)3 V			
	37 3	100/14	VR=	163 V
Nz = K(2n) = 1	50 V			FILL
0.10				





	Problema 6:	- Forder
	PT= 1.6072 ×10-19 C. DVA-B=	KA - KB
	Von= 50 Km/s.	
	VB = 80 km/s WFE = 9.	VAB.
	mp = 1.6726 × 10-29 kg WF6 = DI	
	Wre = Wre.	
	KG-KO = 90 VAB.	
	1 m Vp = - 1 m Vo = VAB.	
	2 2	
	9	
		15.
	VAB = 1 m (Vp=- Vo") = 1 (	1.6776 × 1023 ( 80 × 103) - (50 × 103
	9	1.60 72 × 10-19
1/4	VAS= 20. 356 V.	VAB = 70.4 V
	Problema 7:	
	0= 5.00 ne	Perblowed 4
	$R = 0.1 \text{m}$ $\int 5 \text{A} = 9.0 \text{m}$	
	P = 9 enc/V 8	
	E(40x2)= 2000	
	60.	R 99 de garte s
	E (4n	ER3
	Protal = Penc.	ER3 (
	Q = Fane	
	VT Venc. E = C	$R = (5n)(0.05)$ $-R^3 = (5n)(0.05)$
	4.	TR'EO. 417 (0.1)5 EO.
	Q Venc = 2onc	Brokena 5
	V+ E= 28	47.9 N/c. = 2.35 KN
	Q 4/3 # x3 = 2 enc.	
	4/3 A R3	E = 2,25 ENIC.
28 28		
	9 enc = Q y3 R=	
	R3	
435		

b)	Q2= 2.00nC	+ 01:50	,c.		+0=700	
	X = 20.0 cm		62	61	+ Qz= ZnC	
	5 en x=0.15m		\ \ \ \	=0.15	X=0.70m.	
	-	X=0,				
	E- Ka		r	- 1	2	1
	$E_1 = 1 (5n) = 2$	00-1/0-2			= 7200 n	1/c (-i),
	0.15	000 010 (20)		0.05)2		
	6R = 2000 - 7700	= -5200 N	10.(-2)			
				1	6nl= 5.2	KN/C.
	2 11					
	Problema 8:		h -		4	
	P= 2.50 WC				A	
	Y= 0.05m					
		+			1/	
	gonc = PV					
		\$ (ZXXX)				
	SEA = Jenc		E			
	0 &	E = 1 =	125	1000	1 =	
		35		E0.05,		
		000	0	0		
	5= 701	62.1 N/c.				
1				t - 1	1 EN/C.	