	UNIVERSIDAD DE SAN CARLOS DE GUATEMALA	FÍSICA 2 C		
CAROUN	FACULTAD DE INGENIERÍA			
	ESCUELA DE CIENCIAS	1S2023		
	DEPARTAMENTO DE FÍSICA	102020		
STAND SISNELLARED	INGA. CLAUDIA CECILIA CONTRERAS FOLGAR DE	AUX. ANGEL QUIM		
	ALFARO	AUX. ANC	CL QUIVI	

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Tarea 2

				T	7.				
					P. 1	E			
	91= 3,	0 (	0,-12)	com	65	1	034	22	
	92= 3	nc (	12,0)	cm		Lo	Of Fry		
	93= -1	inc (	17, -12	con			14.17		
						614			
9)	ER = 51+	Eur E	33			9		695	
	F. 49			10		100-			
	61= K9	1 (3)	= 7	(3n)	=	1875	N/C	(+3)	
				(0.12)2					
	62: K9	2 (-3)	. x	(7n)		1750	MIC	(-7)	
				(0.12)2		1000	700	0 0	
	0.12			00 1103					
	0.16	12:	(0.12	2 + 10.	12/2	60	0= 0	21.0	: In o
	1	Y2 =	0.0	288 m.				0.17.	
19		Y =	0.17	m			E-F	Tapi	
	-				1 ), \	1	1	24	
	63x = 1							882 - 3	35 N/C (2)
		Y3	1	(0.	0684	) (0.,	11		
	E34 = K	93 Ser	0 =	x (40	) 1	0 12	1 =	887. 35	N/E (-3)
		132							
	ERX: -								+3(0)
	5 ey = 1	1875 -	882.	35 =	997	. 65	NIC	(+3)	
1	1.5		17 10	0 0 1 17	7	10= 0		1,	3
	15el = V (	367.65	)- + (9	92.65)	= 1	058.	5 N	16	
6	Ve = V1+	1/- +	1/2					E = 10	58 NC
0)	VE = V1T	1 20	03						3 8 1010
	V1 = K	71 =	x(-30	) =	225	V	Vz	= 225	1 150 - 771.8
	Y		0.1						. V S.
	N. St. Ed				MA				100
	V2= K9	2 - K	(2n)	= 1	50 1	1.	VIZ	- 163	V.
	VZ.		0.12						
	11 10	N	(-4)	7	11 0				
	V3 = 169	-			11. 6	V.			
	V3		00/7						

C) U = K 9,92 + K 9,92 Ft (9,93 Y12 Y13 Y X2
U= x (1301(20) + 130)(-40) + (20)(-40) 0.12 0.12
U=-1.18.23 *10-6 J. U= -1182 *109 J'
d) Q = 5nQ = = = = = = = = = = = = = = = = = = =
Fex: (-367.65)(5n) = -1.838 × 10-6 N.
Fay = (992.65)(5n) = 4.963 + 10-6 N. 180 = 0+d.
$d = Tan^{-1} \left( \frac{4.963}{1.838} \right) = -69.678^{\circ} \Rightarrow 180 - d = 0.68$
0= 110° 0= 110.3°.
$m = 10.0  \text{mg} = 10 \times 10^{-6}  \text{g}$ and $q = -4.00  \text{mC}$ $\sqrt{10^{-6}}  \text{g}$
$a = -\frac{7}{10 \times 10^{-6}} = -\frac{70 \text{ m/s}^2}{10 \times 10^{-6}}$
b) t= 1.50s. V= \( \forall \times^2 + \forall \times^2 \) \( \sigma_x : \text{OHe} = 20 \text{m/s} \)
$V_{1} = 36 + 0t = (-70)(1.5) = -30m/s$ $ V_{1}  = \sqrt{(70)^{2} + (-30)^{2}} = 36.1 m/s$





