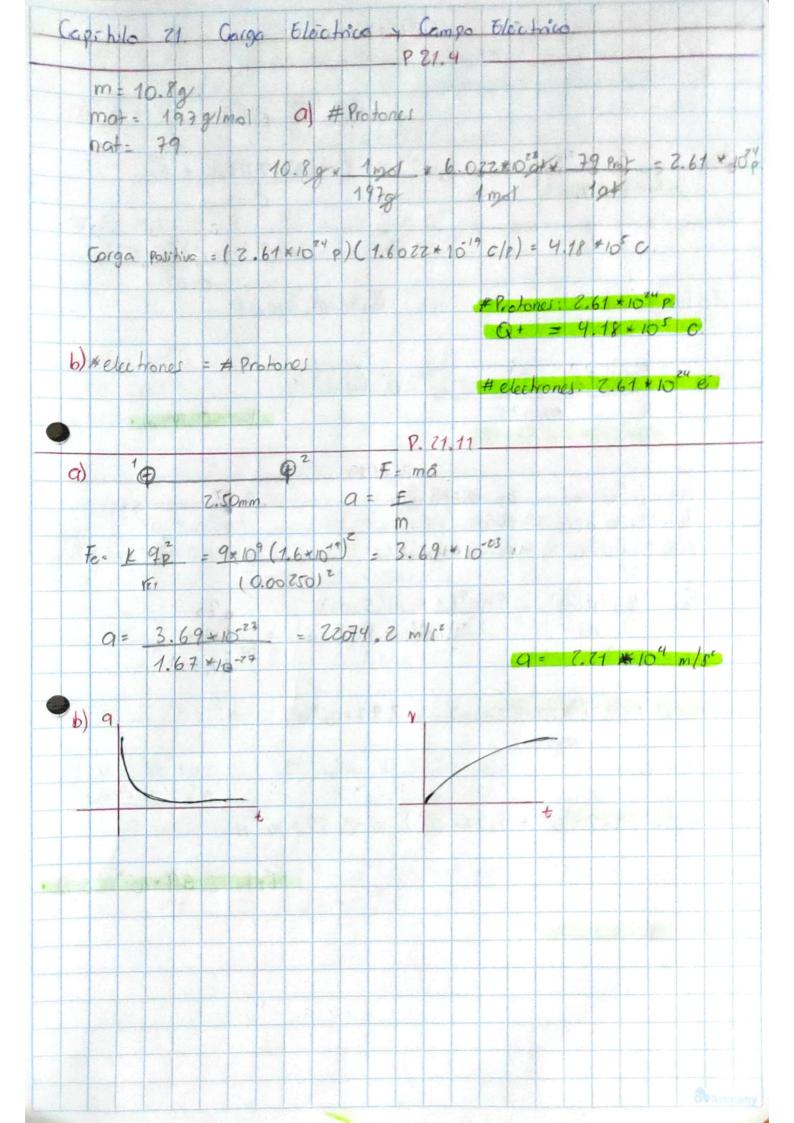
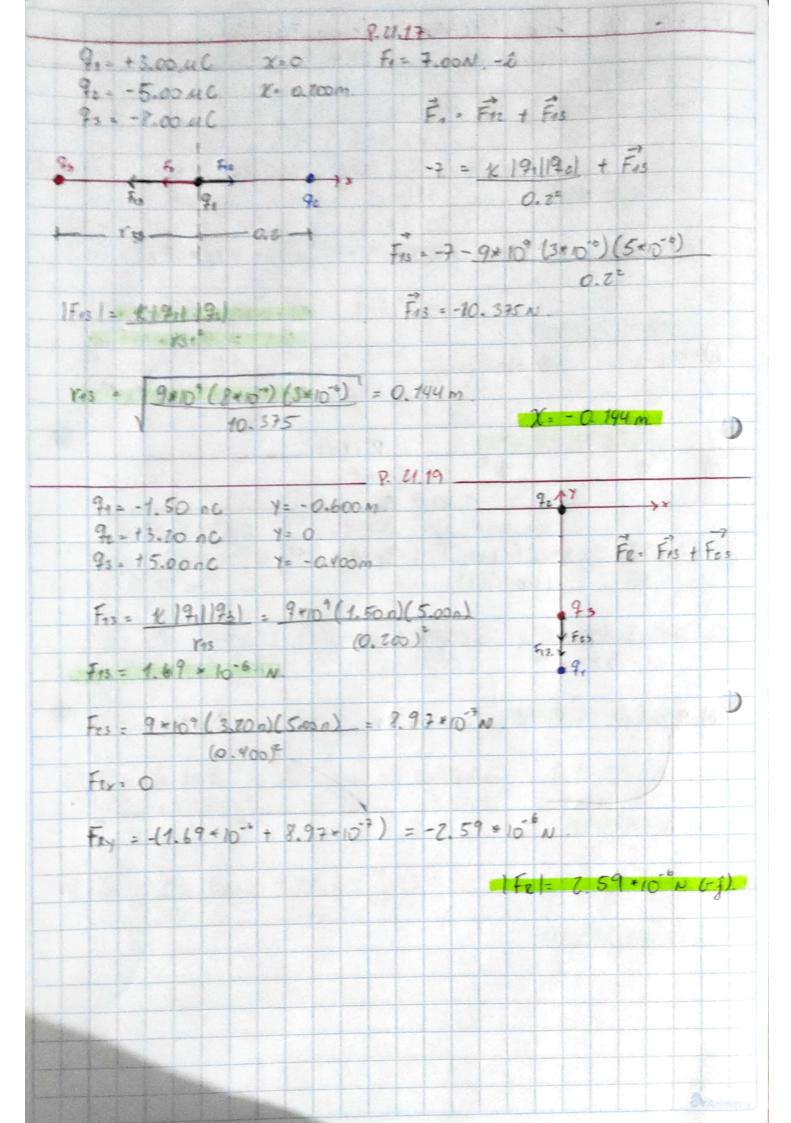


UNIVERSIDAD DE SAN CARLOS DE GUATEMALA FACULTAD DE INGENIERIA ESCUELA DE CIENCIAS DEPARTAMENTO DE FISICA



Nombre: Leonel Antonio González García	_ FÍSICA II 1S2022
Carné: 201709088	CAPÍTULO No.: 21
Sección: P NOMBRE DEL CAPITULO:	Carga eléctrica y campo eléctrico
Profesor: <u>BAYRON ARMANDO CUYAN</u> Auxilia	r: <u>José Balux</u>
21.4, 21.11, 21.17, 21.19, 21.23, 21.25, 21.27, 21.32, 21.35, 21.39, 21.41, 21	.43, 21.47, 21.50, 21.51, 21.57, 21.65, 21.86, 21.88
Puede iniciar su tarea a partir de aqu	uí (Mínimo 10 problemas)





E= 7.75=10° N/C 900000 = 1.60 = 10-19 c
a) $\vec{E} = \vec{F}$ $\Rightarrow \vec{F} = \vec{B} \cdot \vec{Q}$ $\vec{F} = (2.25 * 10^{5})(1.60 * 10^{-10})$ $\vec{F} = 4.4 * 10^{-16} N$
b) F= ma = F = 4.4 * 10 1 w
a= 2.63 * 10 11 m/s a= 2.63 * 10 m/s=
c) $V_{+} = V_{0}^{2} + at$ $t = 1 \text{ us}$ $V = (7.63 * 10^{-1})(1 * 10^{-6}) = 263473.05 \text{ m/s}$
$V = 4.50 \times 10^6 \text{ m/s}$ a) $V = 1.50 \times 10^6 \text{ m/s}$ a) $V = 1.60 \times 10^{-14} \text{ c}$
$E = F = ma = (1.67 * 10^{23})(3.16 * 10^{19}) \qquad a = -3.16 * 10^{24} m/s^{2}$ $7 \qquad 1.60 * 10^{-19}$ $E = 3.3 * 10^{6} N/c + 2$ $E = 3.3 * 40^{6} * 10^{12} N/c$
b) V_{f} : V_{0} to f f : $-V_{0}$ = 4.50×10^{-6} = 1.42×10^{-6} . V_{E}^{+0} - V_{0} = f . q f :
6) $F_{e} = \frac{me}{mr} \frac{G_{e}}{1.67} = \frac{9.10 \times 10^{-31}}{1.67} \frac{(3.3 \times 10^{6})}{1.67} = \frac{1798.7}{1.67} \frac{N/c}{1.67}$ $F_{e} = \frac{1.80 \times 10^{3} \text{ N/c}}{1.67}$
Oraniery.

F= , K= 1 t= mg= E- 1	65 mg - 1 - m - m - m - 1 - 60 3.20 1.6	19/E 19/E 0 cm 20 + 10	1/c = U1	£ 1, 6 7	<i>q</i> ₀	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2)(°	7.86 10	(650 (650)	m 10 10 10 10 10 10 10 10 10 10 10 10 10	1.82	02	90 10 *10	1.	9 =	-2	1.9	м		
F= , b) F6 X= 1 t= me= E- 1 1	mg - 1.60 3.20 1.6	196 29 - e	= (1	£ 1, 6 7	* 10	= (0 0 ⁻²³ 1.60) (G	7.86 10	(650 (650)	===	1.32	07	*10°	1.	9 =	-2	1.9	м		
b) F6 X=1 t= me= E-1 1	1.60 3.20 1.6	19/6 0 cm 0 cm 20 + 10	= U1	£ 1, 6 7	* 10	= (1 0 ⁻²⁷ 1.60) (G	7.86 10	(650 (650)	===	1.32	02	*10°	1.	9 =	-2	1.9	м		
b) F6 X=1 t= me= E-1 1	1.60 3.20 1.6	19/6 0 cm 0 cm 20 + 10	= U1	£ 1, 6 7	* 10	0 ⁻²⁷ 1.6)(°	7.86 10	(650 (650)	21	1.	02	*10°	1.	9 =	-2	1.9	м		
b) F6 X=1 t= me= E-1 1	1.60 3.20 1.6	19/6 0 cm 0 cm 20 + 10	= U1	£ 1, 6 7	* 10	0 ⁻²⁷ 1.6)(°	7.86 10	(650 (650)	2	1.	02	*10°	1.	9 =	-2	1.9	м		
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X= 1 t= me= E- 1 1	1.60 3.20 1.6	e o cm	5 5			1.60 (a)	ог* Х	- x	19 P	21	.32		E=	1.	,20		7 1	ΙΙC		
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X= 1 t= me= E= 1 1	1.60 3.20 1.6	0 cm 20 \$ 10	5 5					W	P	21 V6	.37 * t	+	1	a f	2					
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t= 'me= E- 1	3.20 1.6 F	20 ± 10	5 5.	6 (0)				W	0 3	16	x t	+	1	at						
me= E-1 1 E=	1.6 E	57×10	5 17	6 (0)		55		SV												
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