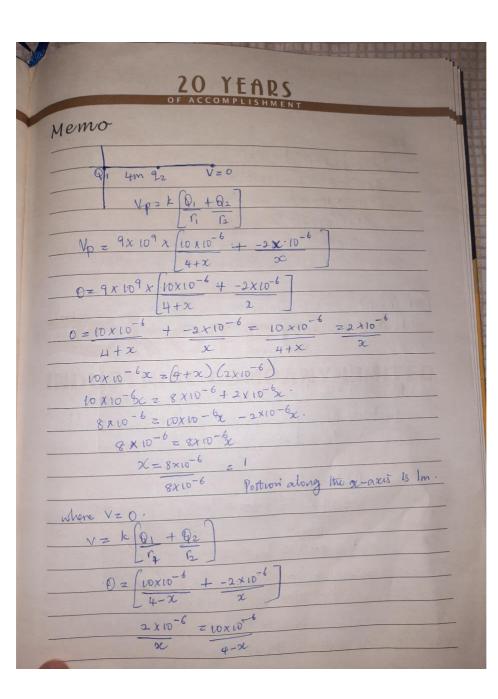
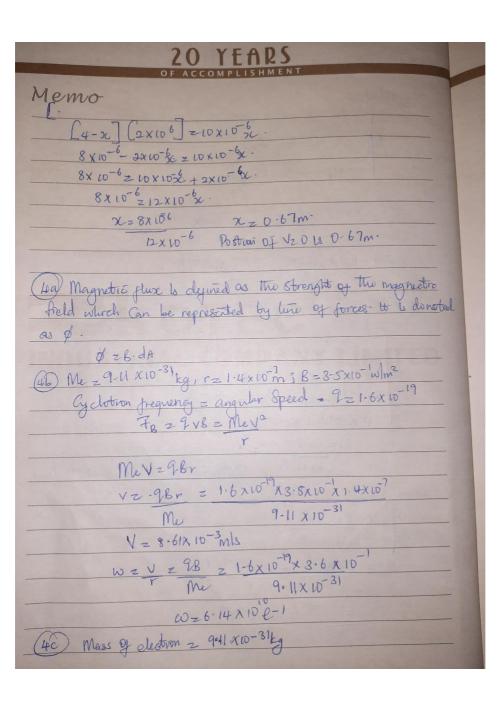
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Jeanyselmkon Toura 19/MHS11/068
20 YEARS
Pharmacy 20 YEARS
Memo
@ elective field and elective field Interestry
electric field electric field intensity
A region of Space around the Me measure of the Strength of
electric change in which an electric field at any point
elective force acts on also a force per unit charge.
20 91 2 8nc at Organ
92 = 12nc on axis at x24m.
i) net electric freld at point P on the asig at 22m
while on point Q on the y arcrs at y= 3m due to the danger.
a) & 4
F. = 160, -9x109x8x10=1.469N/C
E12kQ1 = 9x109x8x10 = 1.469Nlc
$\frac{91 + m + 92 + 8m + }{7m} = \frac{12 \times 10^{2} \times 10^{2} \times 10^{2} = 12 \text{ M/c}}{7m}$
(2 72 72
Enet = fi+E2 21.5+12N/C 213.5N/C
(11) · E at Point a on the y avas at y z 3m due to change.
$\frac{62}{3!} \times \frac{16!}{4!} \qquad \frac{C^2 = a^2 + b^2}{2!} = \frac{C^2 = 4^2 + 3^2}{2!} = \frac{1}{12} = $
2 C=15 = C=15
3 x=5 E, z KQ, z 9x109x8x10-9 E, =8x/c
3 x=5 E, z KQ, z 9x109x8x1079 E, =8x/c
Q1 4m 42 E22 KQ2 Z 9x109x12x109 Z4.32Nlc

	2	OYEAR	5		
OF ACCOMPLISHMENT					
Memo Vector E128NIC E22432 Enet = JEps Enet = 11.12		x-comp · onlc -3.45 Mlc Sx z-3.45 Nlc	y-comp &NIC 2-59NIC 2fy=10-59AIC		
(3) Formulation of Industries of change. a) Ushume Change density & = dv = dQ = Pdv aii) Surgace change density o = dQ/dA = dQ = Odt aiii) lunear change density - N = dQ all z dQ = KdL;					
(b) electric potential difference equations. V8 - VA = Q 1 - 1 7 4+ So [TB TA]					
where @ z point change. 18 z distrance of @ to point B 18 z distrance of @ to point B Sue to Several point changes.					
Vpz Q1 + Q2] where V = electric potential. 4xxo [2] Q z point change r = distance of Q. OPoint change Q1 z 1010 Q2 z - 2000 along x axis x 201					
2624m find the position along the 26-axis where V20.					





Memo radous 2 1.4 × 10 m B=8.5x10-10/m2 and we were asked to find the Cycloton frequency which to The Same thing as appular Speed to b Called Cyclotion pregnency because . It is a frequency of an acalatin Called Cyclotron? Recall w z angular Speed a = 98 . Sine Cydotron frequency zangular Spad Me The Cyclotron pregnency = 6.14 × 10-10ehaving a White of T which is the Unit of frequency domenoronally. (50) Bri-Swart law states that the magnitic field is directly Proportional to the product permability of free Space CY) the Current (I), the Change In length, the radius - and Inversely proportional to Epiane of radius (2). Maltunatically " dis = Jo Idtxi 4Tr2 where to Epermeatitity of new Space 3 = 4 To x 10 T: M/A; I z 8 teady amont reradius. dL = length of wine unt is colm dBz magnetic field (56) Magnetire field of a straight Current Carrying Conductor 12 = J22+y2 A Section of a straight +a/// annent Camping Conductor. a dby TL -a

Memo
Applying Bro-Savat law, we find mognotinde of the fill

B = 1/6 I Pa dl Sin &

14 Th J-a r² 8 m Cr - Ø) zsint B = Jy I f a dlsin Gr - Ø) 47 La 12 From the drogram $r^2 = \chi^2 + y^2$ B = 16 I pa dlsin (n-\$)
4 Th (-a $\chi^2 + y^2$ But Sin (x-\$) = x = 22 Substitute (11) Intol) - - - (m) BZM·I L Cx2+a2)/2 2 Tr. 2 Rr.