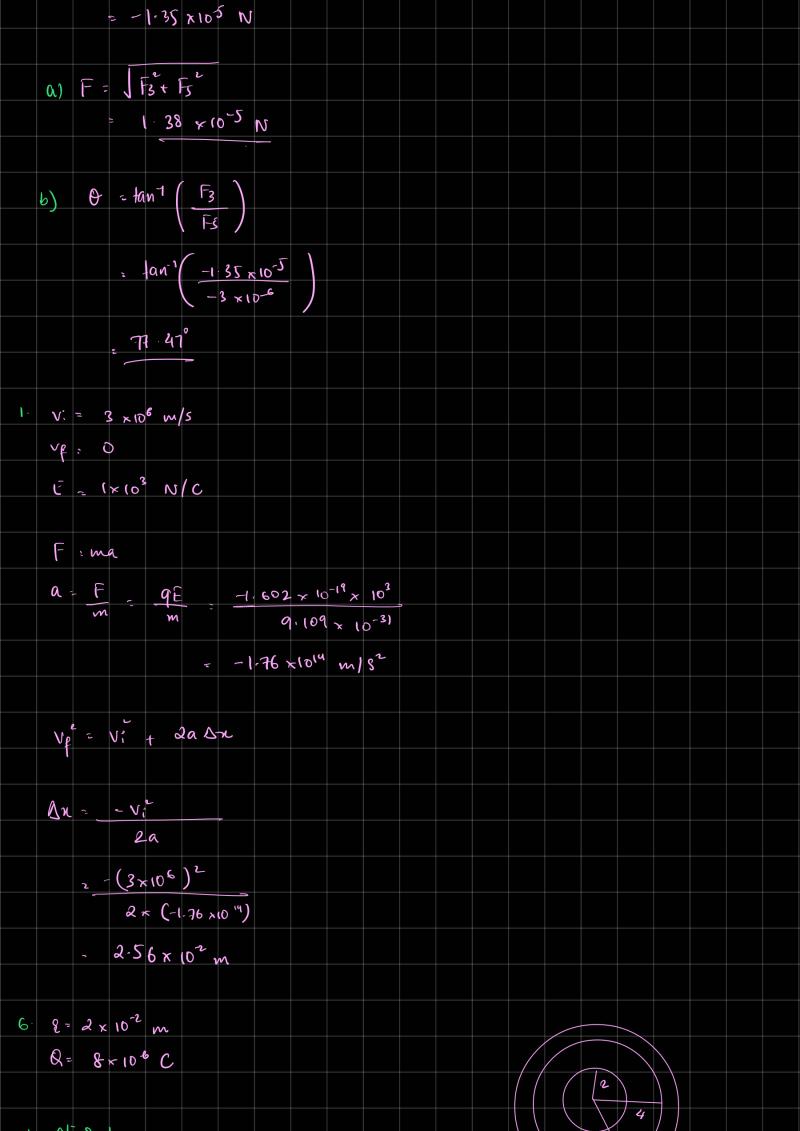
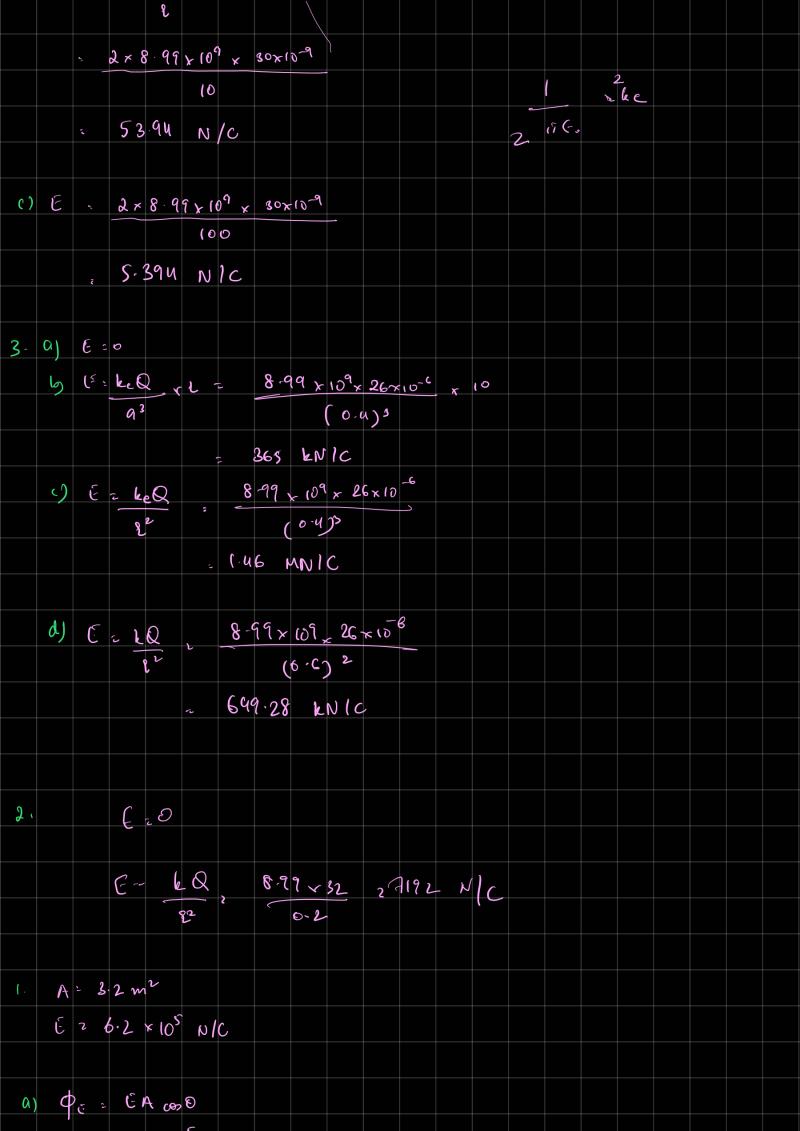
4.	V _i = 0
	vp = 1.2 × 106 mls
	E = 640 N/C
a)	F = ma
O()	$a = F$ $a = (1602 \times 10^{-19}) (600) = 6.13 \times 10^{10}$
	$a = F$ $gE = (1.602 \times 10^{-19}) (640)$ $6.13 \times 10^{10} \text{ m/s}^2$ $m = 1.673 \times 10^{-27}$
6)	
~)	
	at = Vp · vi
	t > Vp - v.?
	6.13 x 10 ¹
	1.96 × 10-5 s
ζ)	vp. vi 2 a Dr. Dx- ut + 1 ate
	Du = Vp - Vi
	$\begin{array}{c c} & 0 + (\sqrt{6.98 \times 10^{-3}}) \end{array}$
	1.2 106
	2×6·13 ×10 ¹⁰ = 11-77 m
	= 9-79 × 10 ⁻⁶ m
3.	E - ke q
	ke = 8.9876 × 109 (05
	9° 2µC
	2 = 1.25 m
	E = keq
	Q ²

	8.9876×109×2×10-6			
	1-25			
	= 14380, 16 N/C			
	F 2 F 4 F			
	E = Ex + Ey En = 0 Ey = E sin 0			
	Ly L E SIN B			
Si v				
	[-12			
	Ey - 2 x E x sin 0			
	. 2 × 14380 16 × 0.2			
	1.17			
	12839.42			
	= 128 × 104 N/C			
b) (i	= - qE			
	= -3×10-6 x 1-28 × 104			
	3 - 3 84 × 10 - N			
2.	Fc = - ke.g. a.			
	Fg = - kegigz			
	= - (8-99 ×109) (6 ×10-9) (5 ×10-9)			
	0.32			
	2 -6			
	2 - 3 X10 N			
	8 9 10 9			
	F3 = -8-99× (09 × 3×10-9 ×5 × 10-9 (0-1)			



0) W Zz I	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
E = 0	
b) F = keQ = 8-99×109 × 8×10-6	= 79.9 × 10 6 N/C
(3×10-2)2	= 79.9 MN (C
c) ot 8-45	
EZO	
d) at 2:7	
	7-34 × 106 N/C
3 (7-34 MN/C
5. S= 0.5m	
C 80 x 10 3 N/C	
Ē = O	
\mathcal{E}_{\circ}	
σ = Eε.	
= 80× 103 × 8-85 × 10-12	
- 1.08 × 10-7 C/m²	
= 708 nC/m²	
z 100 MC IM	
O = Q	
Q - O.A	
= 708 × 10 ⁻⁹ × 0.5 × 0.5	
177 nC	
4. 1 = 5 x 10 t m	
λ = 30× 10 ⁻⁹ N/C	
a) E = 0	
b) ε = 2 ke <u>λ</u>	



2 62×10 ³ x 3.2		
2 1.084 Nm²		
b) Pe = EA cos 90		
6. 2. 14x10 m		
Q = 26 x 10 6 C		
a) V= LQ = 1.67 MV		
8.		
E = 0		
b) v= kQ = 1.17 MV		
E la		
E 2 k 8 5 . 84 MN/C		
R2		
() V=1-67 MV		
E 2 11-93 MN/C		
5. N= 4.2 × 103 N		
2 - 0.3 m		
V= kQ		
٤		
Q = V2		
k '		
2 75 x10 ³ x 0.3		
2 75 x10 ³ x 0.3 8-99 x 109		

