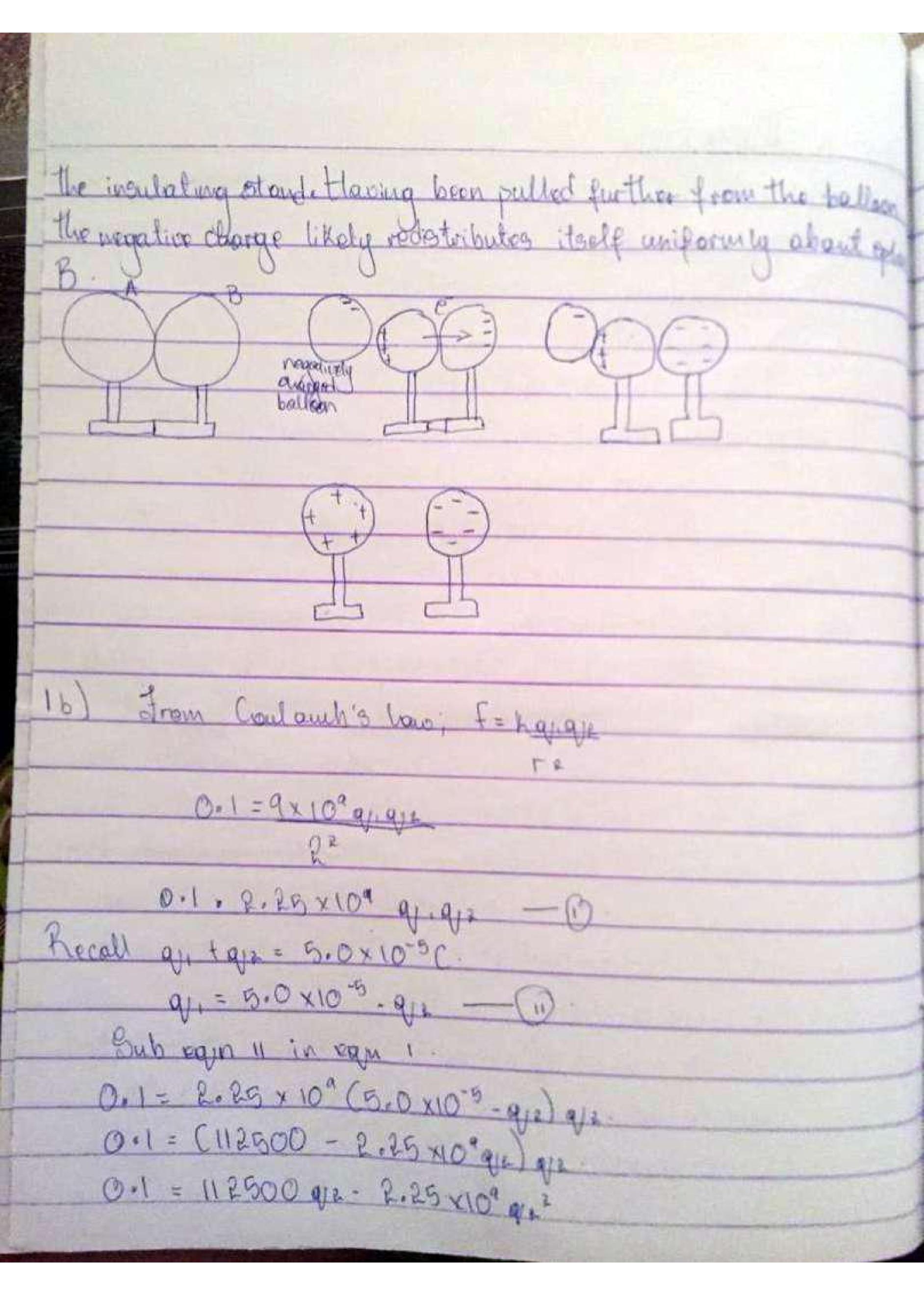
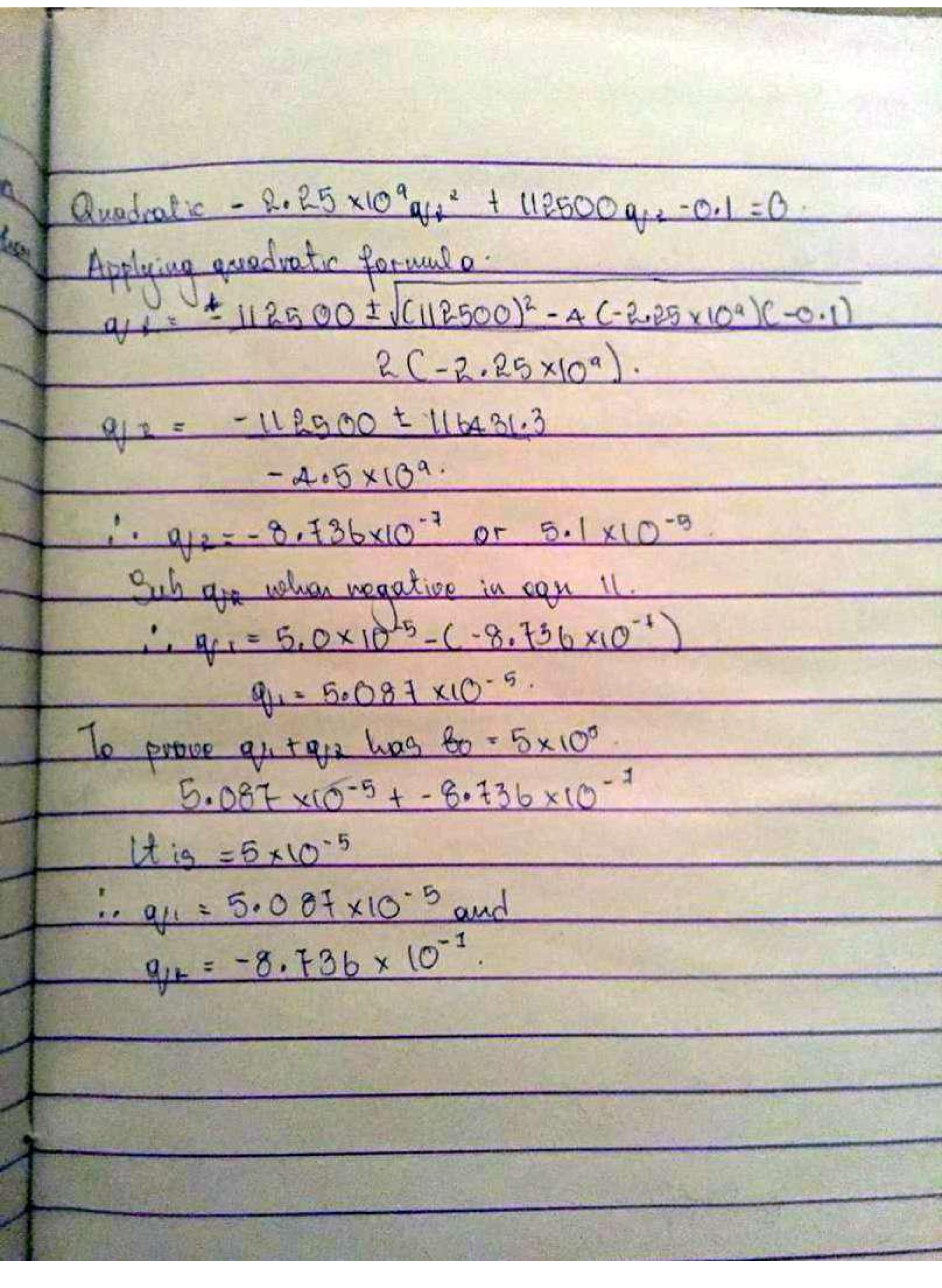
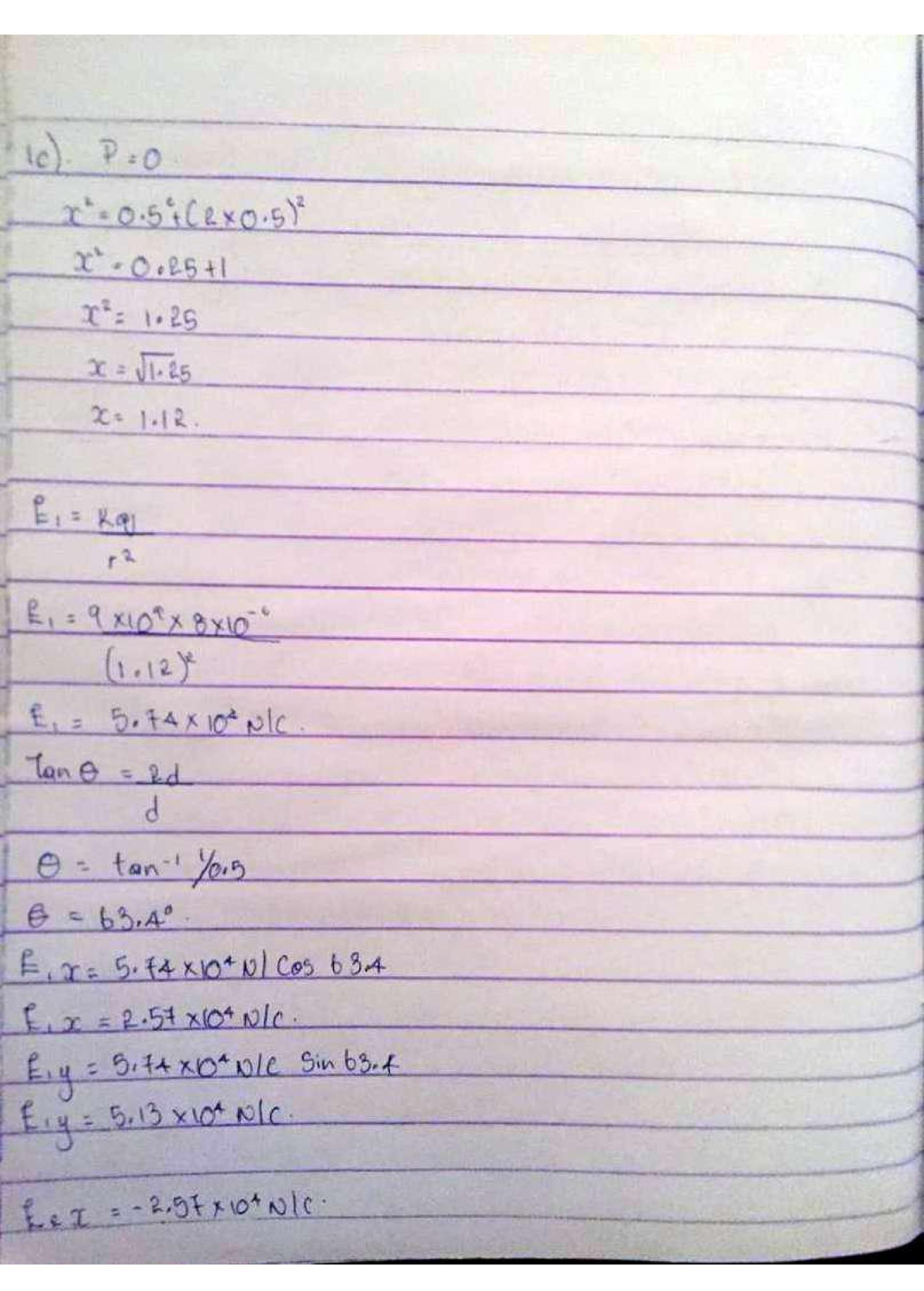
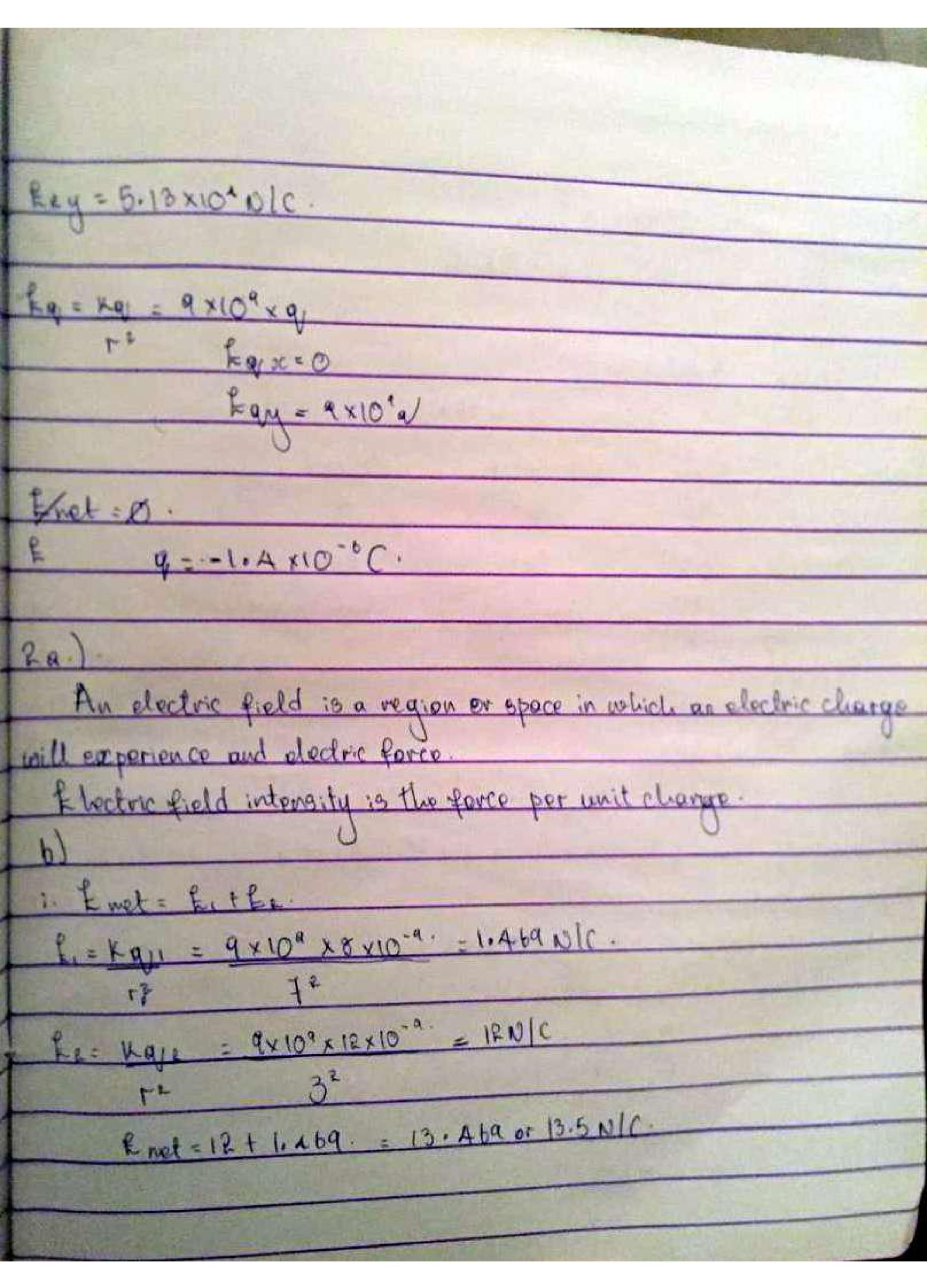
LERRA KWANER. 19/mhag1/233. Thusics 102 Assignment. Modicine and Surgery. 1) Consider two metal epheres supported by insulating stands so that any charge acquired by the spheres cannot travel to the ground the opheres are placed side by side so as to form a tino explore system Being made of metal, etactions are fore to move between spheres from sphere A to B and vice persa. If a rubber balloon is megatively charged and brought mear the exhores, electrons within the two sphere System will be induced to more aroung from the balloon. This is graphy the principle that like changes repel. Being present in a conductor they are free to move about the surface of the conductor. Subsequently, there is a mass uniquation of phychopy from sphere A to sphere B. This electron migration cause the two-sphere system to be palarized. The movement of alectrons out of shore A and into sphere B expropertes the acquative charge from the positive charge. Looking at the opheres individually it would be ocherate to son that sphere A has an oppeall positive charge and sphere I has an overall wegative charge Once the two sphere system sphere B is physically seprended from Solve A using









$\frac{11) E_1 = 4 \text{Mol} 2 \text{Mol} 2 $	1
	1
	1
	1
72 32 = 8 NIC.	1
	+
	+
Ez= KQz = 9×109 × 12×10-9	
5° = 4.82 NIC.	+
Vector Angle x-Comp 4Comp	I
E1=8NIC 90° 0	1
E2=4.32 VIC 36.9° -3.45 2.5	
Ex= 5.45 Eq= 10.59.	
Enet = [C-3,45)2+C10.59)2	1
= U.IANIC	
Fnd = 11.14 1016	
(40) Magnetic flux is the measure of the strength of a magnetic field	
in a given area.	
6) Cyclotron frequency - Angular speed = w	1
Recall 1 = mu and well	A
98	
W= V: INO	1
1981	1
10 = V × 918	1
mx	

