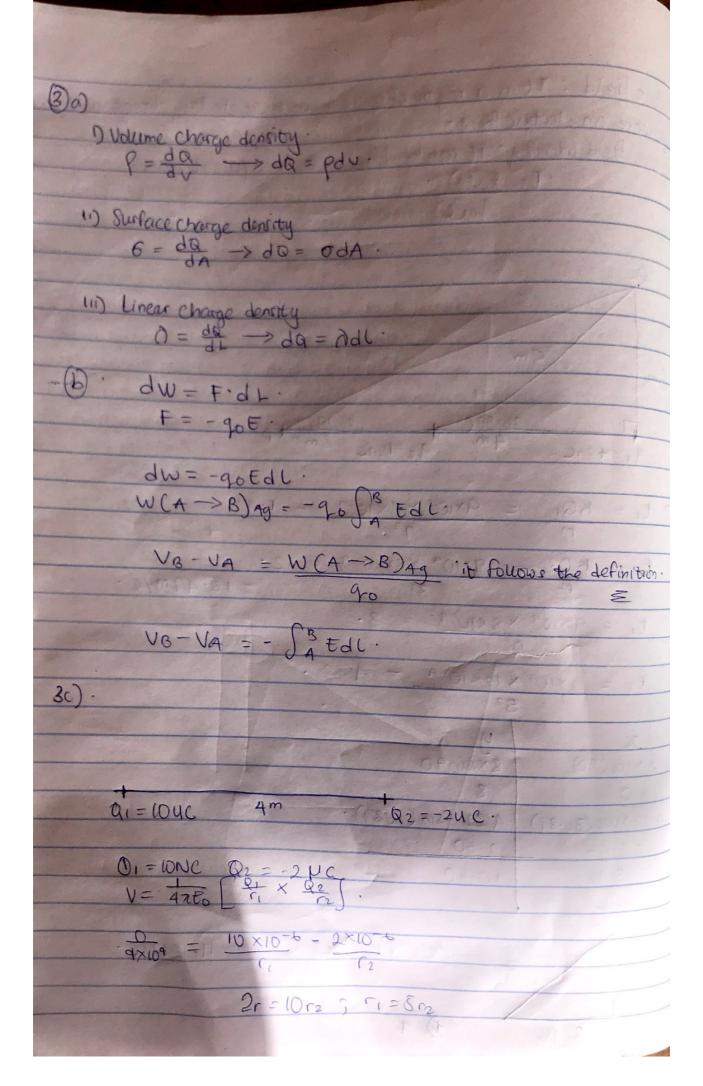
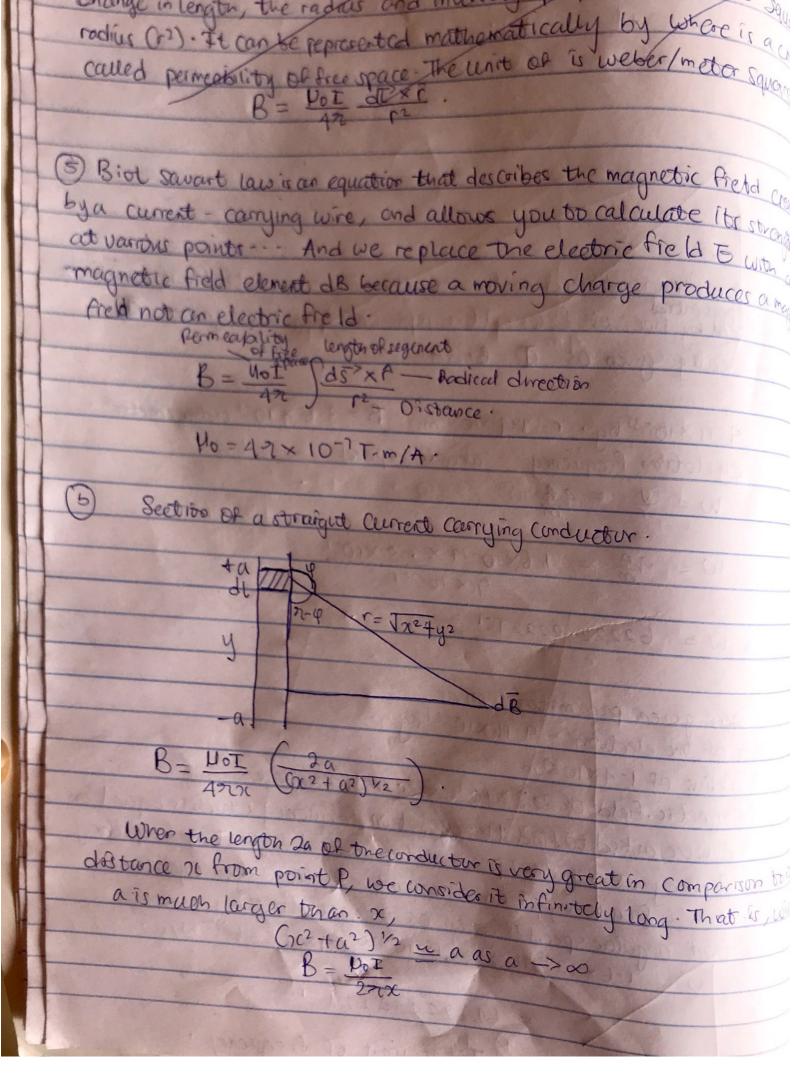


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Defering to the diagram above, the position along the x-oneis where v=0 is 5m from a 1 = 10UC and in from a = -2UC. 4a) Magnetic flux is defined as the strength of the magnetic field which can be experiented by line of forces. It is represented by the symbol 1 mathematically given as D=B·dA. b) m = 9.11×10-31kg. r= 1.4×10-7m B= 3.5×10-1 weber/meter2. eyclotron Prequency = angular speed W = V = 9B  $W = 9 = 1.6 \times 10^{-19} \times 3.5 \times 10^{-1}$   $9 \times 10^{-31}$  $W = 62222 \cdot 2222T^{-1}$ We were given parameters such as 1) mass of the electron = 9.11×10-31 kg 11) A radius of 1.4×10-7 m. 11) Magnetic field of 3.5 × 10-1 water/meter square. and we were asked to find the cyclotron frequency which is equal or the same thing as angularspeed. It is earled cyclotron frequency because it is a frequency of an accelerator earled eyes Cyclotron. have w = 1.6 × 10^-10 × 3.5 × 10-10/9×10-31 622222-2227-1



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