Help session week 13 29/5/18 - Emt Only certain number of questions to test on; either too easy or too hard. - Go through as bikely to be in exam. If want to memorie) stream like learning, Quetins!
Q7 -really easy, dog you know what he unit is
- 7a specifically (can ship betc)
Q8 & Q9 &Q10 -> avaranteed to be tested 2015 & 2017 evan Q12 previous years assignment Q13 - i can do a10 ther can do a1> Q16 - lds exam Q 18, Q19, Q20 - WH Classes Q24 - em Waves, Q37 - recommendation Q38-2015 exam 2016 exam 2016 exam exam break down 70 -em sny = Andys was 60/40 30 - em waves easily pass. To connected segments question from thoughts (lost sem)

was in 2017 exam

Project -hatch lectures or it to do well work on Mathab code - do in pairs parmes - don't submit Marthab code, so com copy puste After get over hordle of Modlah Code everything else really cary Teach of 5, doing it. Slide 25 = by end Should hall Similar
graph. - Final model should be one (non by the sol)
- don't need to know about it for exam ao into into file look conti-f Bulk de-coupling" Make you own exporments. for kente bend one in corner etc. -MKMani - see it says it's dependent or prepared in booklet so then do something dependent or flyeny in lode - Can rease reger engheer formulas in the pooklet en joinna 242. - charge trings in model see for Tip

IMPORTANT Sholes from 4 a sides M 87 4 Moraelli populates ffs-selates to Q37

typb. Core g EMT don't see these interactions at speed of 21-ru - 18 ores to consider or negonal fequilitates to each other. F8 H Might have to do and fet or Jas otrojon/ Gaston of 25 Question on aut 26-2017 exam, the avery gogney Q38 shorte \$024 should do peper exam. Guided waves important - Should understand everything here => py 54 important eg 55 - FOR QUVZ Anything to do 1 in exercises. Look at Past QUEES, Whatis Kappa

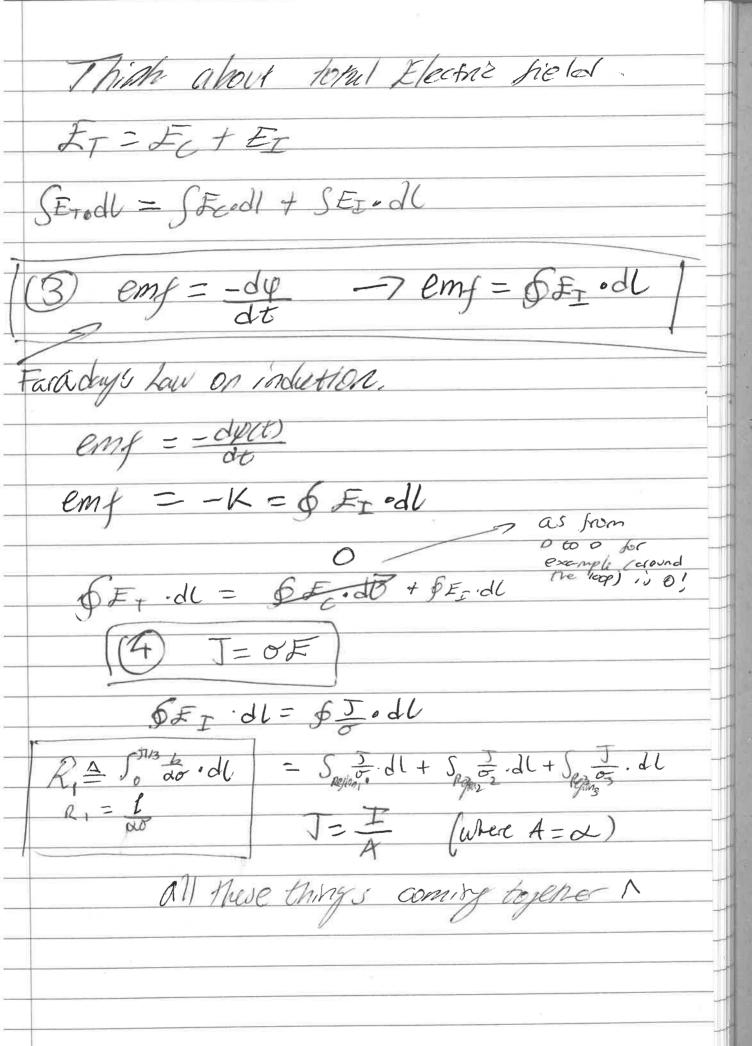
Independent Segments Question — Pao

Determine the potential difference — Poe

Correct in Ring I' — Pec

I'm per i'v constant

Need to induce the correct ndependent it and samp up the current Source. The wire through it creates a Uniform Magnetic field. given to you BCt) = Bct) az W(t)=6 BCt)· dS = Yo + Kt The potential difference is obtained in from integrancy the coulomb field So in need to get the cook coulomb fied So find Fo L1=-74 (2) 4 = - SE odl (What is he asking what into do I know about that?)

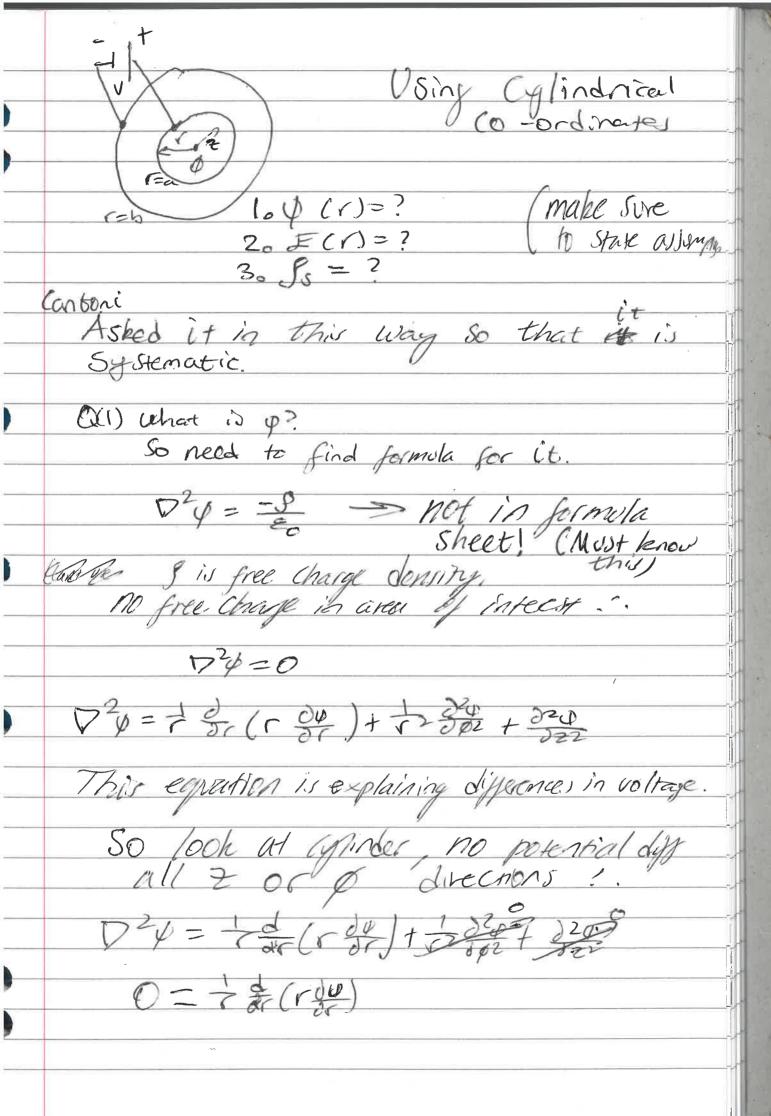


= S= dl+ S= dl+ S= dc region (I was constants) 1, =1 , Rz =5, R3=15 = I (R, +R2 + R3) OFT. dl= I (R+R2+R3) Min exam will give k, in this LE I(R, +dz + Ks) Take we will my ~21= T(1+5+15) u n=21 FET. dt = SE dt + SET dt - (Fr. dl = 4 + (Eg. dl # SE $F_{C} = F_{T} + F_{T}$ $= \int_{C} L F_{1}$ $U = -\int_{E_{C}} dL$ 3 ent = -7 ψ= - ()- ET, dl 4=-SE. dl) get IR from integral VOD= -IR, -G-7 YDE -If sum all of them is Pro Q. Pro+ 1/20 -0

Reason the sum of them is 0.

is from. O

The posential differences obstacled is from integrating the contomic field. And SEC-dl=0 .. Som of all portarial differences is O.



$$0 = \frac{1}{\cot r} \left(r \frac{\partial v}{\partial r} \right)$$

$$0 + C_1 = r \frac{\partial v}{\partial r}$$

$$0 + C_$$

2) Held to find colomb field mu = -d (vo /n(5)). ar 20 = - & (10 /n(g) /n(r) - Ting /n(b)). ar These sump (a 5 6) So have part 2 done. if forget of can state it is a vector and in pelds direction)

Part 3 Js? * Remember SECODS = E Du Podv -+ + > all charges (i) something charged)
The should be at the surjecte 6 Fc ds = = 60 85 8 . ds Since all charge at surgace Lc= Iss 95= FCEO ·. fg= E0 Vo = Question actually asked for inside 21d part done
Last part of it
Q4!
Q4 Capacitance bences Glindo surface.

Per lengos Q4 Capacitance between Cylindes (F/m) topl - QXf3XQNat ihaje - Q = Jox 25cal C= Ss x2Tal Yab Yab = Vo ·· C= Is×2stal QEO = 5 250a This grestion (combers a) most likely Order of hierary of brdy
-exams
-tvtes - exectly and suit.

Listen to with commissings will be an with