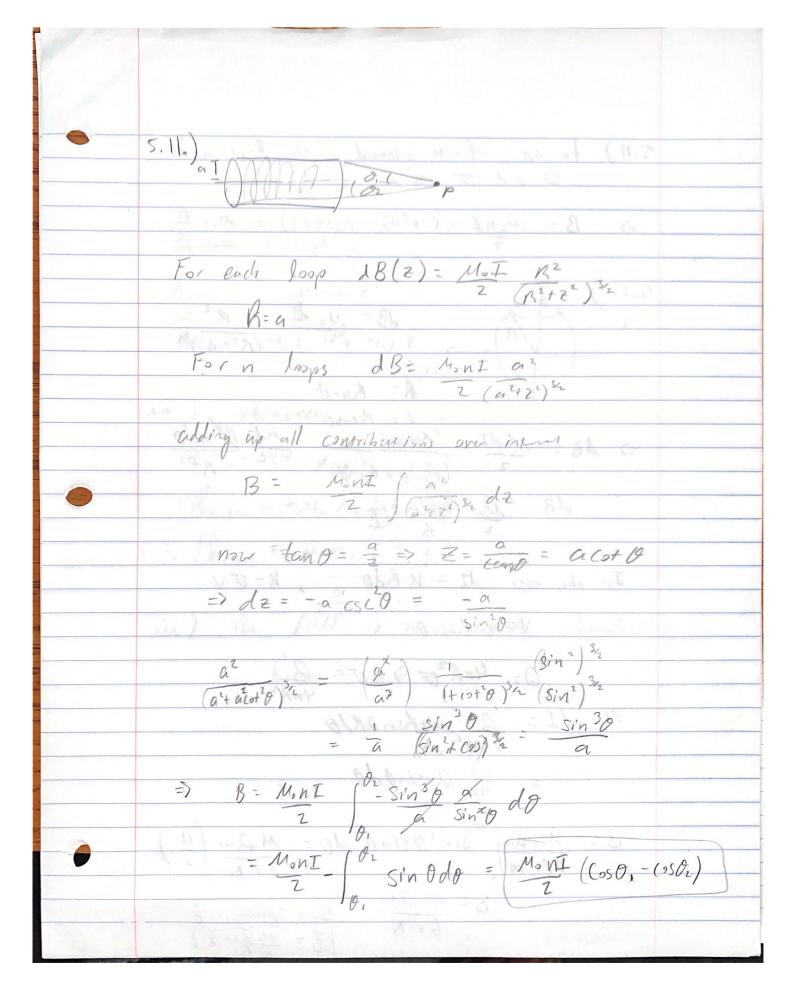
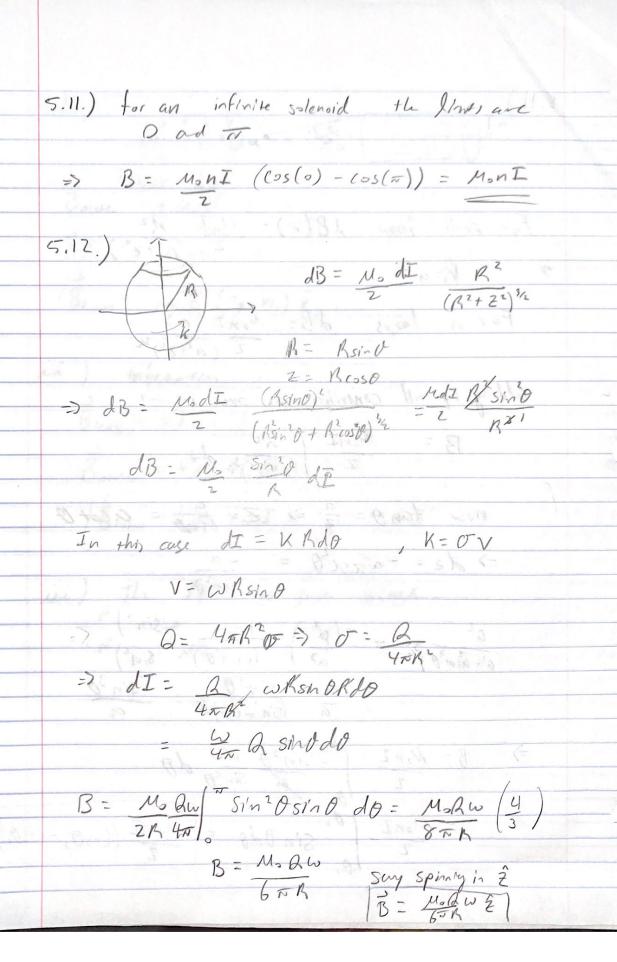
	EM HW 5: 5.4,5.7,5.11,5.12,5.16,5.19,5.21, Ex5.12,5.23,5.2
5	(4.) B= KZ2
	그는 그는 그들은 그는 그렇게 그렇게 그렇게 그 아이에 어려워 하다 모습니다. 그렇게 되었는데 그는 그들은
	Finay = [I(díxis)
	(-) = (a c c c c c c c c c c c c c c c c c c
	The left and right side cancel due to symmetry.
\times	cancel due to symmetry.
	F 4 A A A A A A A A A A A A A A A A A A
	Jn top Z= 92 > B= W(2) -2
	$S_{o}, F = I + (-d\hat{y}) \times (k\hat{z} \times \hat{z})$
	to distribute the second
	F= - Iak(2) 2
7	ALAN SINIX - ZX · V
	an bottom ZZ=-92 3B=-K(2)2
	1017
	F=I (dŷ) x (K²x)
	3 - 1/0 - 2
	$F = -I_0 k(2) \hat{z}$
	C = + 11 0
	S- Fran = Ia2k2
	VA CONTRACTOR OF THE PROPERTY
	The state of the s
	and the second s
	and the second of the second o
	B. B. C. S.
	where the Same Ar was
	the second second second second
	The state of the s

5.7.) Show
$$\int_{0}^{1} 3d\tau = d\vec{p}/dt$$
 $\vec{V} \cdot \vec{J} = -\frac{\partial p}{\partial t}$
 $\vec{P} = \underbrace{\vec{Q}}_{V} = \int_{V}^{1} \vec{p} \vec{r} d\tau$
 $\vec{P} = \underbrace{\vec{Q}}_{V} = \int_{V}^{1} \vec{p} \vec{r} d\tau$
 $\vec{P} = \int_{V}^{1} dt \vec{r} d\tau$
 $\vec{P} = \int_{V}^{1} dt \vec{r} d\tau$
 $\vec{P} = \int_{V}^{1} (\vec{V} \cdot \vec{J}) \vec{r} d\tau$
 $\vec{P} = \int_{V}^{1} (\vec{V} \cdot \vec{J}) \vec{r} d\tau$
 $\vec{P} = \int_{V}^{1} (\vec{V} \cdot \vec{J}) \vec{r} d\tau$
 $\vec{P} = \int_{V}^{1} (\vec{J} \cdot \vec{J}) \vec{r} d\tau$



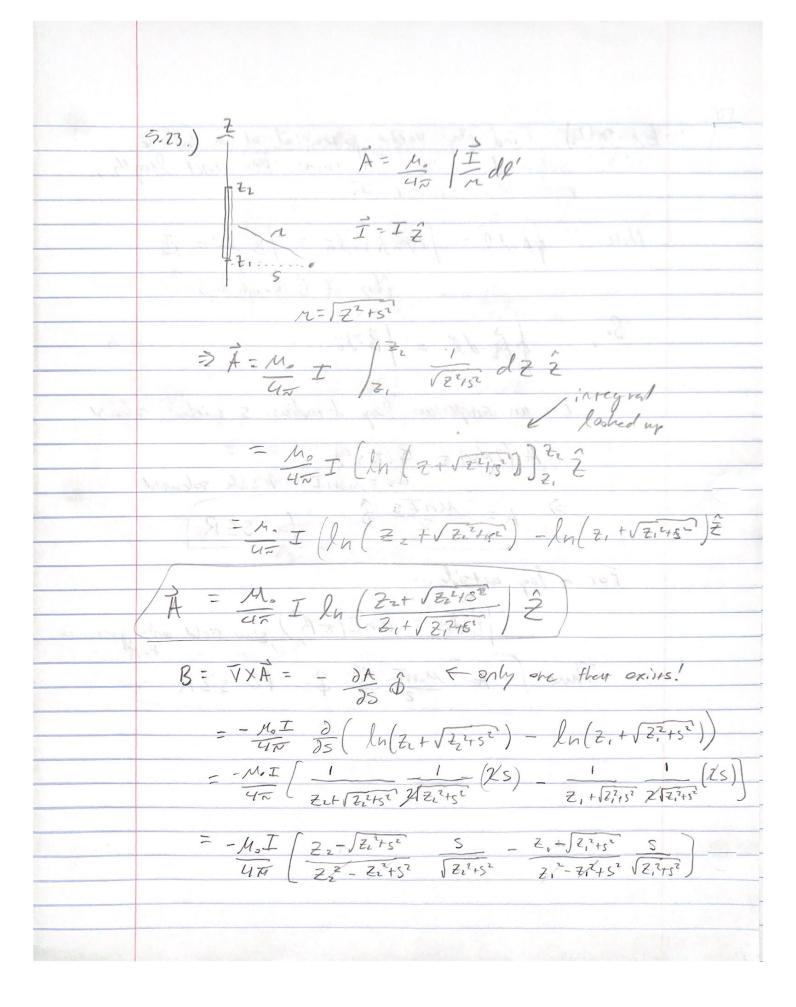


5.16.) - 2 Bouser = + M. n. I 2 Binna = - Moh, I Z B+++= MoI (n2-n1) 2 inbetween Bouse = +M. n. IZ Btorus = Mon2 I2 The field is zen outsich Brown = O.

1997	5.19.) Inc = / 3. da
	15 - da
	V. ゴ = 0
	For solensidal fields, the sulface does not
	ments , the surface does not
	5.21) VXB= 1.3
	V NB = Mo J
	Now the continuity equation
	J= -3E 0 = mil
4000	
100	V. (Vxp) = Mo (V.J) = -Mo 26
	1.14 00 - 1.25 01 4 22 1
	but It = Zero Shie stendy currents.
	So only valid if p is constant!
	& Party and Mark magnet was a series of his
	The state of the s

Ex 5.(2) Find the vector potential of an infinite

Solenoid will in turns per unit length, Nou fA.di = (VXA).da = B.da = D flux of B through bop. PA.dl = |B.do For an amperian losy of radius s within selected B(XsX)
(s=nonI inside solenoid => A = MNIS & for SSIR For a log outsite... B. do = Mon I (NR2), sine sield only goes out A= MonI R3 & Fox SZR



Zz (Zitsi Z12+52 Sin (O.) 71 47 5 Eg 5.27 V

