eder Jo = Jos ag de des des 202 jes, 49 Jig 30, de , who we se should no, B(01/1,2) (16) B(2/2) = B(y) = hilay (66/2-2 B=Bylax J& $B = \frac{M_o}{4\pi} \int_{C'} \frac{J_o \times R}{IRI^3} ds'$ R=1-1 r= Rax +yay + zaz ds = dsy=tdxdx ay r'= x an +y ay + + ay = x an + y ay ds' = dx'dz' $\overline{R} = (x - x') \hat{a}_x + y \hat{a}y + (z - z') \hat{a}_z$ $|\vec{R}| = \int (x-x')^2 + y^2 + (z-z')^2$ JxR= Jo. azx[(x-x') an + yay +(2-2) az] = Js. [(x-x)ay - yax]

$$\frac{119}{B} = \frac{h_0}{4\pi} \int_{0}^{\pi} \int_{0}^{\pi} \frac{-\frac{1}{2}a_{x}^{2} + (x-x')a_{y}^{2}}{(a-x')^{2} + y^{2} + (z-z')^{2}} \int_{0}^{\pi} \frac{1}{2a_{x}^{2} - a_{y}^{2} - a_{y}^{2} + (z-z')^{2}} \int_{0}^{\pi} \frac{1}{2a_{x}^{2} - a_{y}^{2} - a_{y}^{2} - a_{y}^{2} - a_{y}^{2}} \int_{0}^{\pi} \frac{1}{2a_{x}^{2} - a_{y}^{2} - a_{y}^{2} - a_{y}^{2} - a_{y}^{2}} \int_{0}^{\pi} \frac{1}{2a_{x}^{2} - a_{y}^{2} - a_{y}^{2} - a_{y}^{2} - a_{y}^{2}} \int_{0}^{\pi} \frac{1}{2a_{x}^{2} - a_{y}^{2} - a_{y}^{2} - a_{y}^{2} - a_{y}^{2}} \int_{0}^{\pi} \frac{1}{2a_{x}^{2} - a_{y}^{2} - a_{y}^{2} - a_{y}^{2} - a_{y}^{2} - a_{y}^{2}} \int_{0}^{\pi} \frac{1}{2a_{x}^{2} - a_{y}^{2} - a_{y}^{2}$$

$$I = \int \frac{-y^2 \sec^2 \alpha \, d\alpha}{y^2 \sec^2 \alpha} = -\alpha \qquad = -\frac{tg}{y} \int_{+\infty}^{-\infty}$$

if
$$y : \rightarrow I = (+\frac{\pi}{2}) - (-\frac{\pi}{2}) = +\pi$$
if $y : \leftarrow \rightarrow I = (-\frac{\pi}{2}) - (+\frac{\pi}{2}) = -\pi$

 $JB = \frac{R_0 I}{2\pi R} \times \cos \alpha \times 2$ $I = J \cdot ds_2 = J_5 \cdot r' dr' d\varphi'$ $R = (r^2 + r'^2 - 2rr'\alpha \varphi')^{1/2}$ $r'\alpha \varphi + R \alpha \alpha = r - \beta \quad \alpha \alpha = \frac{r - r'\alpha \varphi'}{R}$ dbs tox Joor drdg x2 x r-rang db = RoJo. r'er-range) side B= \(\frac{\text{Hoso}}{\tau} \frac{r'(r-r'\one)}{r^2+r'^2-2rr'\one} \dr'\de \(\sigma \) = \(\sigma \)

$$\frac{\delta}{\delta} = \int \frac{h_0 J_{\delta_0}}{\pi r} \frac{\pi a^2 \hat{a}_{\phi}}{\epsilon} r \alpha \frac{1}{\pi r} \frac{h_0 J_{\delta_0}}{\pi r} \frac{\pi r^2 \hat{a}_{\phi}}{\epsilon} r \alpha$$

10h 0/6

B = 101 ap dl = dl9 = rd9 ap

B. de - M. I de

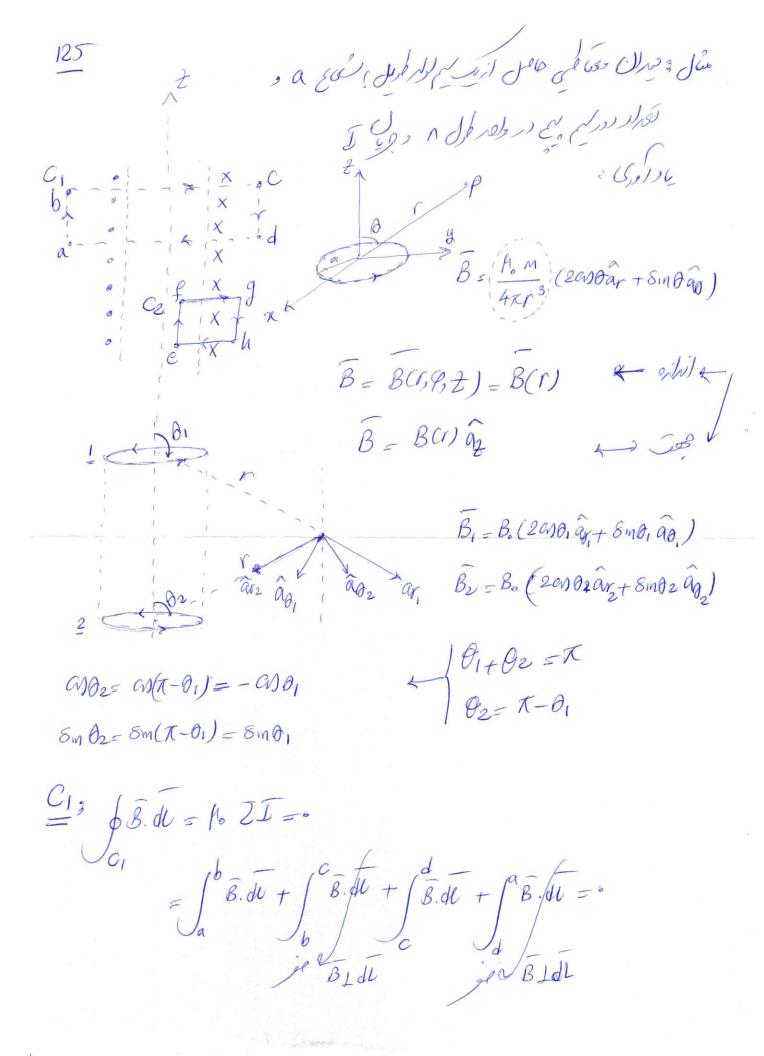
 $\oint_{C} \vec{b} \cdot d\vec{k} = \int_{C}^{2R} \frac{h_0 J}{2R} d\vec{k} = -kJ$

\$ B. de = 1. (Cm; 16, 26 09 06)

B= B/AB a Color Me $\int_{c}^{b} \overline{B} \cdot dt = \int_{c}^{b} |\overline{B}|^{2} g_{B} \cdot dt = |\overline{B}| \int_{c}^{b} \widehat{a}_{B} \cdot \widehat{a}_{L} dt = |\overline{H}_{0}| Z J$ Olwashil melle O36 de fag. a. de MISTING LES Sty So 0,6 pil Ol wis-8-; mido 06 il el de se se s da, $B = \overline{B(r, q, z)}$ B=|B|ap =327: Vacces-2 BU, 9, 2) = B() (/n) + B=Berjay 12601/10/12 18/sote-gr=cte dl = dla = rdage

$$\begin{array}{lll}
124 \\
\overline{B}.dV &= B(r)\overline{ap}.rdp\overline{ap} &= B(r)rdp \\
\hline
& \overline{B}.dV &= B(r)\overline{ap}.rdp\overline{ap} &= B(r)rdp \\
\hline
& \overline{D}.dV &= D(rdp) &= -2\pi rB(r) \\
\hline
& \overline{D}.dV &= D(rdp) &= -2\pi rB(r) \\
\hline
& \overline{D}.dV &= -\overline{D}.dV &= -\overline{D}.rdrdp \\
\hline
& \overline{D}.dV &= -\overline{D}.dV &= -\overline{D}.rdrdp \\
\hline
& \overline{D}.dV &= -\overline{D}.dV &= -\overline{D}.rdrdp \\
\hline
& \overline{D}.dV &= -\overline{D}.dV &=$$

BUSS / ROJORIA PRA JUEUICO



Bz, ab - Btc ocd =. Tuil age de de gra de les misses set de la col, ab cord SJe Injert of godin ; Injero 6 Bti= Btz de B.des If + Ig + Ik + IB.de = 10 II = 10 n I(ef) Bld B= Bldl = Bz. ef=HonTef -> Bz= Fint

$$J = J \cdot \hat{\alpha}_{J}$$

$$J = J \cdot \hat{\alpha$$

128

2I:
$$\int J_{\alpha} \hat{q} \cdot dx dy \, \hat{q} = J_{\alpha} \int_{\lambda}^{\lambda_{1}} dx dy = J_{\alpha} y(x_{\beta} - x_{2})$$
 C_{2}
 C_{3}
 C_{4}
 C_{5}
 C_{6}
 C_{7}
 C_{8}
 C_{8}

 $\frac{\partial \overline{B}}{\partial t} = \beta_{0} \int \overline{J} dS$ $\frac{\partial \overline{B}}{\partial t} = \beta_{0} \int \overline{J} dS$ $\nabla AB = \beta_{0} \int \overline{J} dS$