

$$B = \frac{U_0 \cdot \text{Jenc}}{d\lambda} = \frac{U_0 \cdot A/2\pi r^{\frac{7}{3}}}{3} = \frac{U_0 \cdot A/2}{3}$$

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Itom =
$$I \circ - I \circ = I \circ I_{OIA} = A_2 \pi_1^3 - B_2 \pi \ln |r|$$

Luty

$$\int \vec{B} \cdot d\vec{l} = U_0 \cdot \int_{enc} \vec{b} = U_0 \cdot \int_{enc} d\vec{l}$$
Luty

Luty

$$I_0 = I_{enc} = I_0 = B_2 \pi \ln |r|$$
Luty

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$$I_0 = I_0 = I_0$$

3) lunga
$$B_p$$
, request $r = 3R$

$$\int B_p \cdot dl = V_0 \cdot J_{enc}$$

$$J_2 \neq cte = \int J_2 \cdot ds$$

$$= \int \int B_p \cdot ds = \int B_{2T} \int dr$$

$$= \int \int I_{enc} = B_{2T} \int I_{n} I_{n} I_{n} I_{n}$$

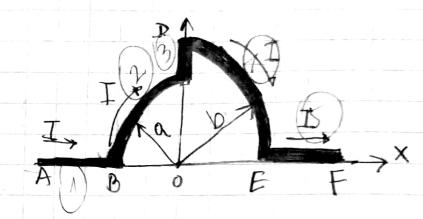
$$I_7 = I_1 - I_2 I_{n}$$

$$I_1 = I_{enc} de I_1$$

Lutgo. => Spdl = Uo. Jenc 2BTInIrl

Problema 1

a)
$$B_i = 40I$$
 $\int \int x(\vec{r} - \vec{r}')$



$$\frac{1}{r} = 02 + 01 \left| -x^2 \right|$$

$$\frac{1}{r} = x^2 \left| \frac{3}{2} \right|$$

$$B_1 = \frac{\mu_0 I}{+\pi} \int \frac{dx \hat{c} \times (-x \hat{c})}{(x^2)^{3/2}} = 0$$

E) letter post.

$$\vec{r}' = \alpha \cos \theta \hat{i} + \alpha \sin \theta \hat{j}$$
 $(\mathbf{r} - \vec{r}) = -\alpha \cos \theta \hat{i} - \alpha \sin \theta \hat{j}$
 $= -\alpha \cot \theta + \sin \theta + \sin \theta \hat{j}$
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 $= -\alpha \cot \theta + \sin \theta + \sin \theta + \sin \theta \hat{j}$
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 $= -\alpha \cot \theta + \sin \theta + \cos \theta$

$$B4 = \frac{ho I}{4\pi} \left(\frac{-2b^2 deh}{b^3} \right) = \frac{-2u o I}{4\pi b} \int_0^{\sqrt{2}} de(k)$$

$$\Rightarrow \frac{-u_o I}{4b} \left(\frac{R}{T} \right)$$