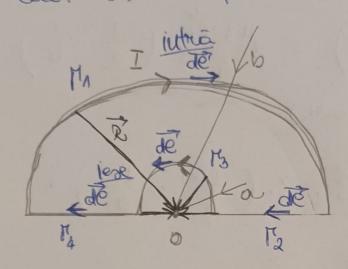
Tema semillor 5

1) conductor féliform plorat du core

1=5A, a=2cm, b=4cm, po=4ū.107 4/m.

Cole. B, H du pundul o



$$\vec{H}(0) = \frac{I}{4u} \int_{1}^{1} \frac{d\vec{e} \times \vec{R}}{R^3}$$

$$\vec{B}(0) = \mu \cdot \vec{H}(0) = \frac{\mu \cdot \vec{I}}{4\pi} \int_{M} \frac{d\vec{e} \times \vec{R}}{R^3}$$

r= 1/1 1/2 10 1/3 10 1/4

17: de 1 R = de x2 = (de) (R). Mi498 = de. R. (R)

13: de 12 = de x2 = de 2. (tr)

「」: de ((ア) =) de xア = (de((R)・xin 180°=0.

M: 晚水之 = 晚水之 = 0.

$$R(0) = \frac{I \cdot \mu}{4\pi} \left(\int \frac{d\vec{e} \times \vec{R}}{R^3} + \int \frac{d\vec{e} \times \vec{R}}{R^3} + \int \frac{d\vec{e} \times \vec{R}}{R^3} + \int \frac{d\vec{e} \times \vec{R}}{R^3} \right)$$

$$\frac{1}{3}(0) = \frac{\mu \Gamma}{4\pi} \left(\int_{0}^{\pi} \frac{de}{dx} \cdot (-\vec{k}) + \int_{0}^{\pi} \frac{de}{dx} \cdot \vec{k} \right) = \frac{\mu \Gamma}{4\pi} \left(\frac{1}{6} \cdot \vec{u} \cdot \vec{k} \cdot (-\vec{k}) + \frac{1}{6} \cdot \vec{k} \cdot \vec{k} \right) = \frac{\mu \Gamma}{4\pi} \cdot (-\frac{1}{6} + \frac{1}{6}) = \frac{\mu \Gamma \cdot \vec{k}}{4} \cdot (-\frac{1}{6} - \frac{1}{6})$$

$$\mu = \mu_{0} \left(\mu_{N} = \Lambda \text{ pt ood} \right)$$

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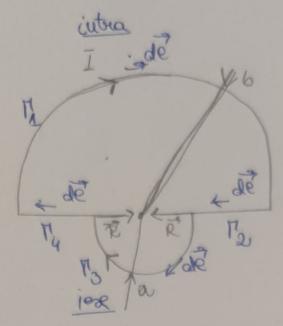
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(2) conductor filiform placet ûn oer a = 2 cm, b = 4 cm, $\mu_0 = 4 \overline{a} \cdot 10^{7} \frac{H}{m}$. $\overline{B}(0) = ?$, $\overline{H}(0) = ?$



1= Γ₁ U Γ₂ U Γ₃ U Γ₄

μ= μ₀ (μ_H = 1 pt oex)

Β= μ. μ.

M. : de 1 2 =) de x2 = R. de · (-12)

13: de 12 = 1 de x2 = R.de (K)

 $T_4: d\vec{e} \, l \, \vec{R} = l \, d\vec{e} \, \times \vec{R} = 0$

M. R=6, 13= R=a

$$\vec{B}(0) = \frac{\mu \vec{I}}{4 \vec{u}} \left(\int \frac{R \cdot de}{R^3} \cdot (-\vec{R}) - \int \frac{R \cdot de}{R^3} \cdot \vec{R} \right)$$