

Prawo Biota - Saverta - Laplace a
$$\int_{B} B = \frac{N_0}{4\pi} \int_{T} \frac{d\vec{l} \times \vec{r}}{r^3}$$

$$H = \frac{1}{4\pi\rho} \left(\cos\alpha_1 + \cos\alpha_2 \right) \stackrel{\rightarrow}{\wedge} \varphi$$

$$\overrightarrow{dH} = \frac{1}{4\pi} \frac{\overrightarrow{d} \times \overrightarrow{v}}{v^3}$$

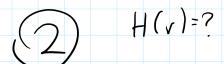
$$V = \sqrt{\rho^2 + z^2}$$

$$dl = dz = k$$

$$\vec{r} = \vec{\rho} + \vec{z} = -z \cdot k + \rho \cos \varphi \cdot d \cdot \varphi \cdot \hat{i} + \rho \sin \varphi \cdot \hat{j}$$

$$\vec{d} \cdot \vec{x} = 0 \cdot 0 \cdot dz = \rho \cdot dz \cdot \sqrt{-\sin \varphi \cdot \hat{i} + \cos \varphi \cdot \hat{j}}$$

$$\rho \cos \rho \cdot \rho \sin \varphi - z = \rho \cdot dz \cdot \sqrt{-\sin \varphi \cdot \hat{i} + \cos \varphi \cdot \hat{j}}$$



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$$\frac{\sqrt{\pi}v^2}{\pi v_1^2} = \int H \cdot dl$$

$$I\left(\frac{v}{r_1}\right)^2 = H \cdot 2\pi r$$

$$H = \frac{\sum_{i=1}^{2n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{$$

$$\frac{1 \cdot \pi r^2}{\pi (r_2 - r_1)^2} = \frac{1}{1 \cdot \pi r^2} = \frac{1}{1 \cdot \pi r^2}$$

$$H_2 = \frac{I_r}{2\pi (v_2 - v_1)^2}$$

$$\int_{0}^{\infty} \frac{1}{s} ds = \int_{0}^{\infty} H_{3} dl$$

$$\frac{\sqrt{3}\pi r^2}{\pi(v_3-v_2)} = +3.2\pi r$$

$$\frac{\frac{1}{\pi(r_{2}-v_{1})^{2}}-\frac{\frac{1}{\pi(r_{3}-v_{2})^{2}}}{\frac{1}{\pi(r_{3}-v_{2})^{2}}}=H_{3}\cdot 2\pi r$$

$$\frac{\frac{1}{\pi}r}{\frac{1}{\pi}r}\left(\frac{1}{(r_{2}-v_{1})^{2}}-\frac{1}{(r_{3}-v_{2})^{2}}=H_{3}\right)$$

$$\frac{1}{4\pi} = \frac{\frac{1}{4\pi}}{\frac{4\pi}{4\pi}} = \frac{\frac{1}{4\pi}}{\frac{4\pi}{4\pi}} = \frac{\frac{1}{4\pi}}{4\pi} = \frac{\frac$$

$$dH_{z} = \frac{Idl\cos\alpha}{4\pi r^{2}} = \frac{Idl\times}{4\pi r^{3}}$$

$$c \circ 5 \alpha = \frac{7}{4}$$

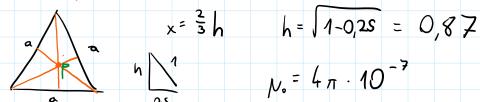
$$\iint_{Z} = \frac{\mathbf{I}_{0}(x)}{4\pi \sqrt{R^{2}+x^{2}}}$$

$$|H(z)| = \frac{1}{4\pi} \frac{d|\sin 90^{\circ}}{r^{2}} = \frac{1}{4\pi} \frac{d|}{r^{2}}$$

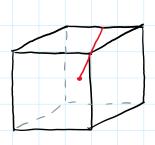
$$|H(z)| = \frac{1}{4\pi} \frac{d|}{r^{2}}$$

$$|H$$

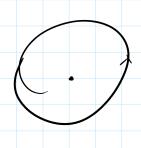
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$$H = 3H_1 = \frac{3I}{2\pi\rho} = \frac{3.20}{2\pi \cdot 0.3} = 31.9$$



Odp:
$$H = \frac{6l}{4\pi\rho}$$



$$H = \frac{1}{4\pi v^2} \cdot 2\pi v = \frac{1}{2\pi v} \qquad H = \frac{I\pi}{\nu}$$

$$l=2\pi r$$
 $r=\frac{R}{2\pi}$

$$H = \frac{1\pi}{L}$$

