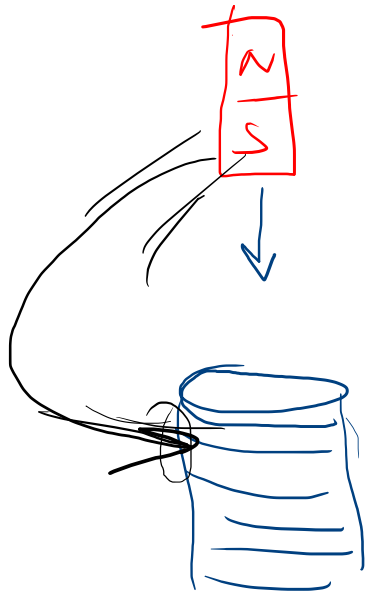
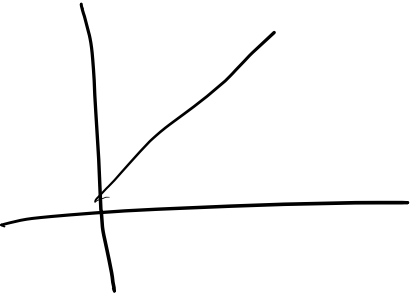


$$i \sim \frac{\Delta \Phi}{\Delta t}$$

$$\Phi \sim (\vec{B} \cdot \vec{S})$$

$$I \sim \frac{\Delta \Phi}{\Delta t}$$

$$P = I^2 R$$



~~$P \sim I$~~

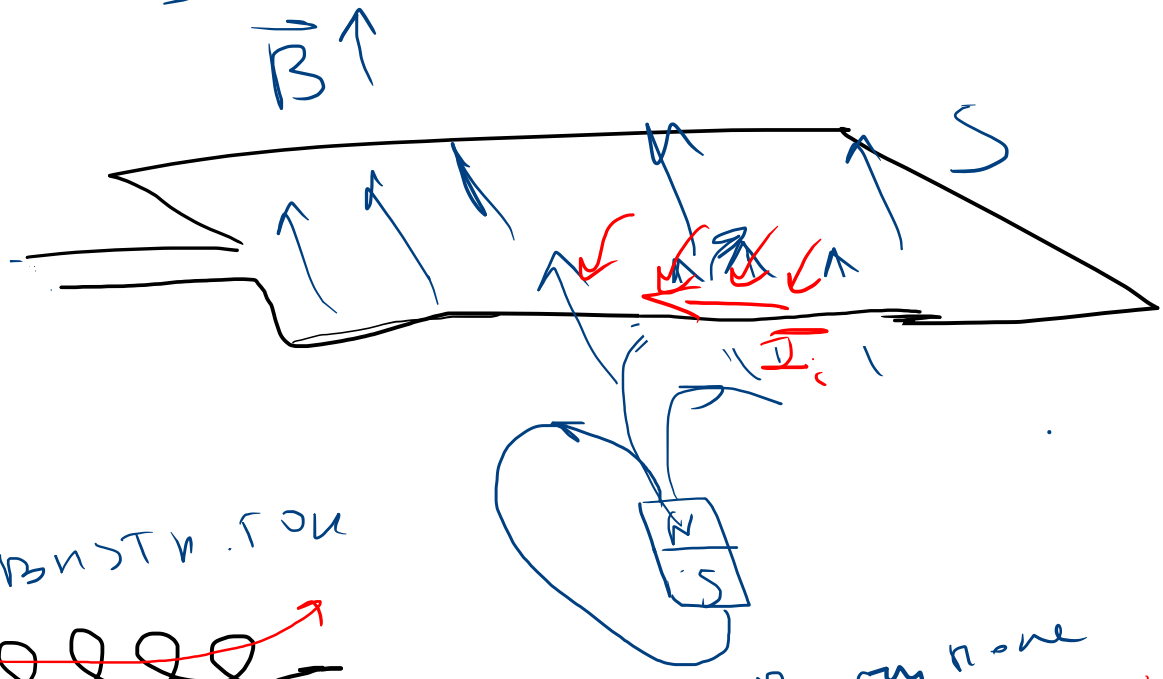
$P \sim I^2$

$$I \sim \frac{\Delta \Phi}{\Delta t}$$

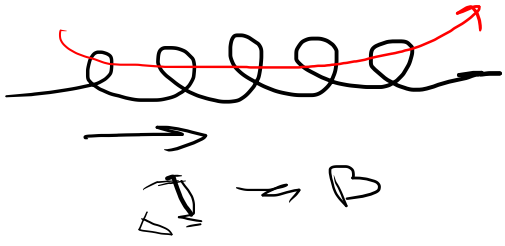
$$\mathcal{E}_{i} = - \frac{\Delta \Phi}{\Delta t}$$

$\Phi = (\bar{B} \cdot \bar{S})$

$\Phi \uparrow$

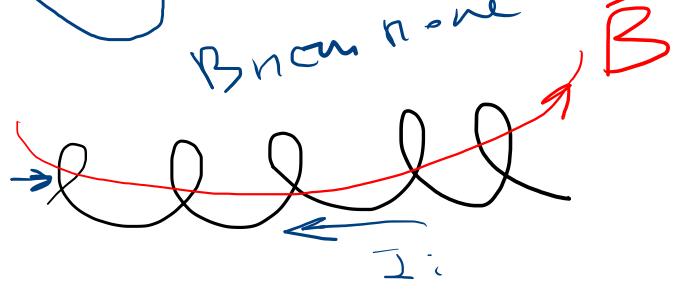


Внутри соленоида

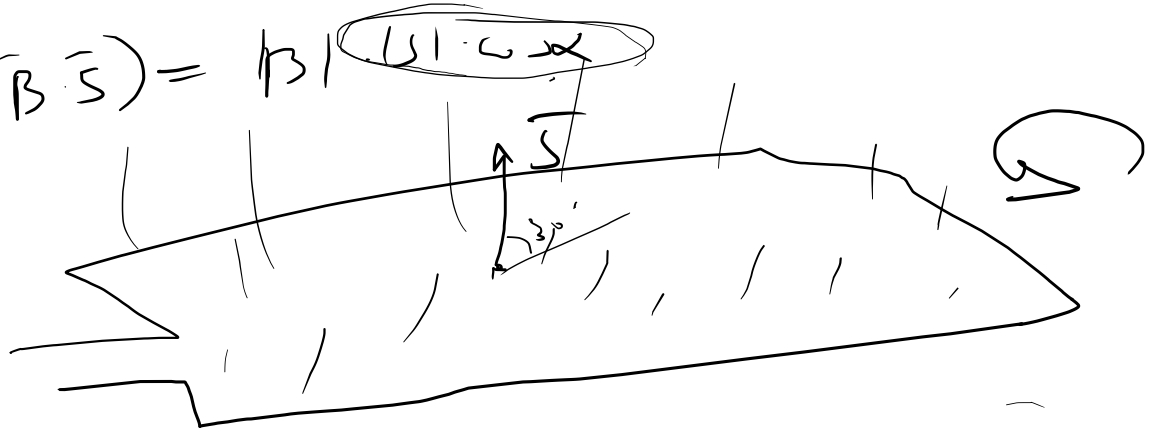


$I \Rightarrow B$

Вне соленоида



$\Phi = (\bar{B}\bar{S}) = BS\cos\alpha$



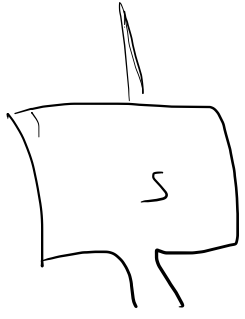
$\frac{\Delta\Phi}{\Delta t} =$

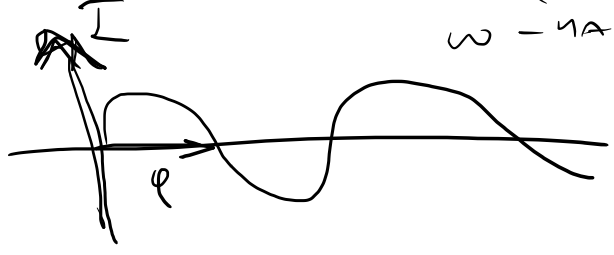
ω

$\alpha \bar{B}$

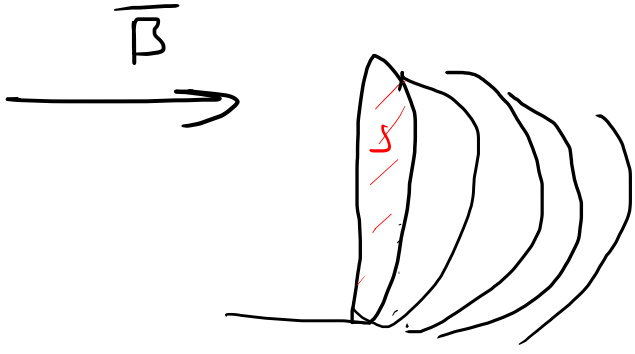
$I = \alpha\cos(\omega t + \varphi)$

$\omega - \text{частота}$





$$\Phi = (\vec{B} \cdot \vec{S})$$



$$\Phi = N \cdot (\vec{B} \cdot \vec{S}) \qquad \mathcal{E}_i = -\frac{\Delta \Phi}{\Delta t}$$

$\frac{\Delta\varphi}{\Delta t} = ?$

$I = 10\,A$

$\frac{\Delta\varphi}{\Delta t} = -\mathcal{E}_i$

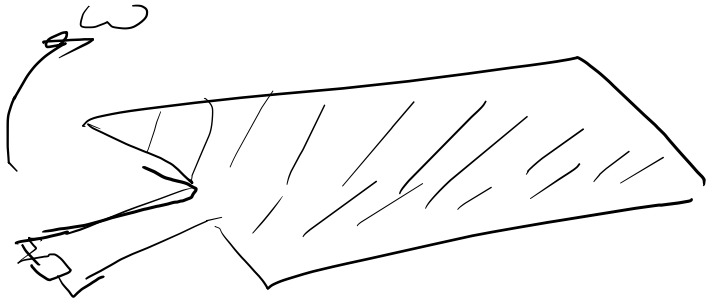
$l = 2\pi R$

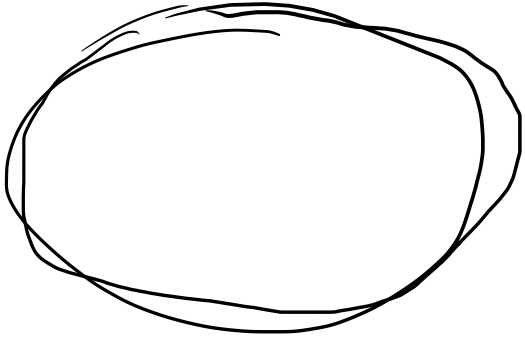
$R = \rho \frac{l}{S} =$

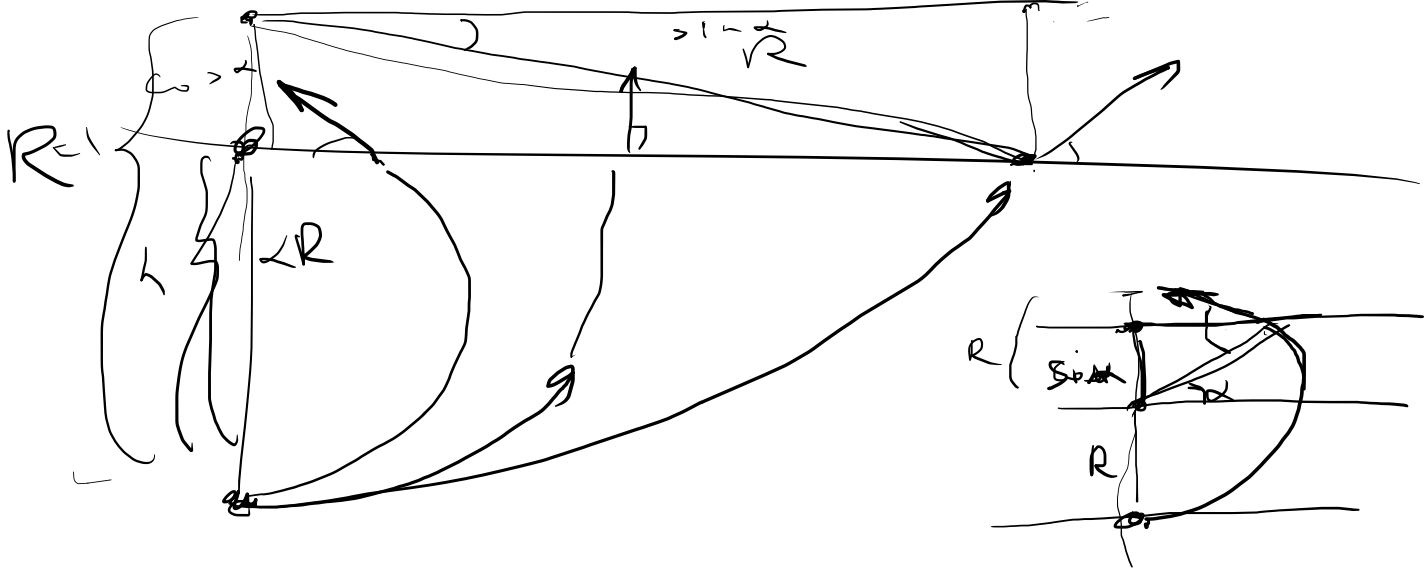
$R = \rho \frac{2\pi R}{\pi r^2} = \frac{2\rho R}{r^2}$

$I = \frac{\mathcal{E}_i}{R}$

$-IR = \frac{\Delta\varphi}{\Delta t}$







$2R = h \quad \alpha = 90°$

$2R < h \quad \alpha > 90°$