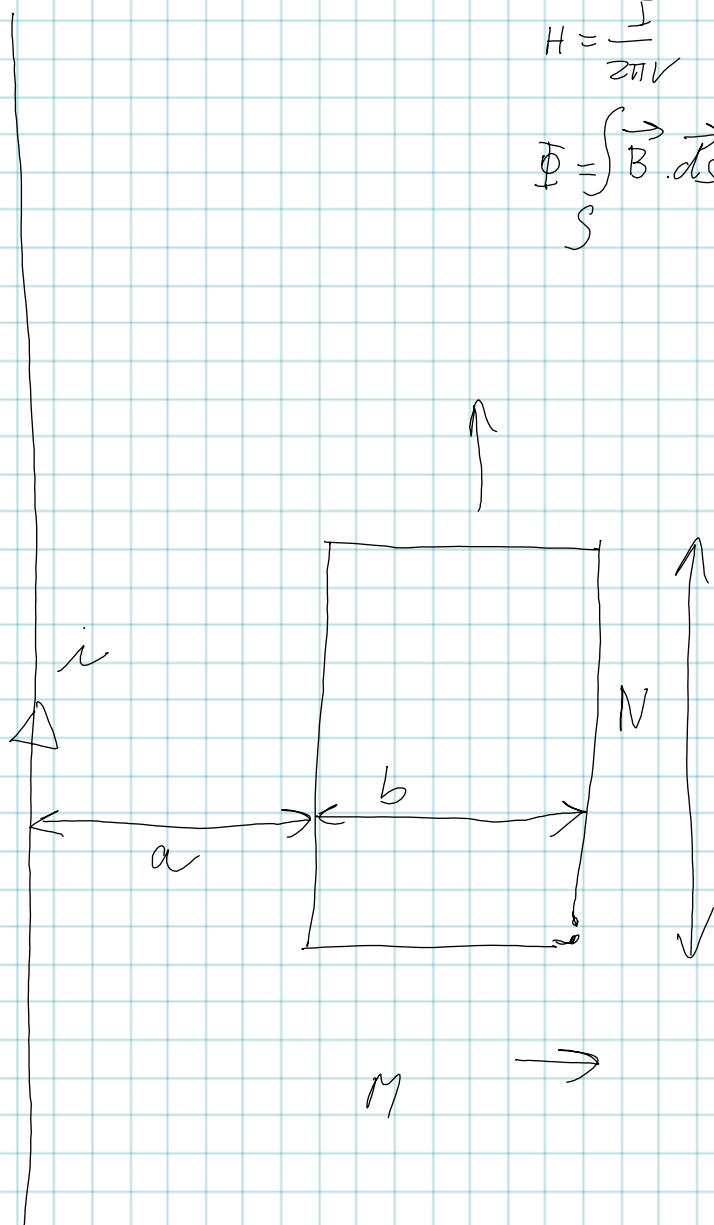


$$M_{12} = \frac{\phi_{12}}{I_1}$$

$$H = \frac{I}{2\pi r}$$

$$\Phi = \int_S \vec{B} \cdot d\vec{S} = \int_a^{a+b} \frac{I \omega}{2\pi r} dr =$$

$$= \frac{I \omega c}{2\pi V} \ln \frac{b+a}{a}$$



$\omega$   
S/2πr  
C

$$M = \frac{\omega c \ln\left(\frac{b+a}{a}\right) N}{2\pi}$$