6. Дано: $B = 0.7\ Тл$

$R = 250\ мм$

$b = 1 \times 10^{-3}\ м$

$I = 0.85\ А$

$N = 1000$

$\mu - ?$

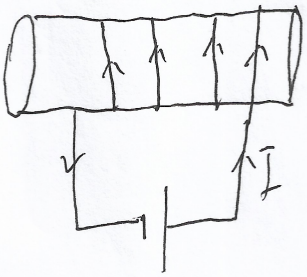
$$H \cdot 2\pi R + \frac{bB}{\mu_0} = NI$$

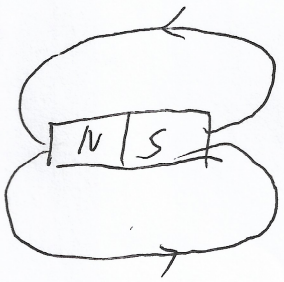
$$\Rightarrow H = \frac{NI\mu_0 - Bb}{2\pi R \mu_0}$$

$$\mu = \frac{B}{\mu_0 H} = 3700$$

7. Дано: $n = \frac{N}{l}$

$I - ?$





$$\oint_l \vec{H} d\vec{l} = I \cdot N \qquad \oint_l \vec{j} d\vec{l} = I_{in}$$

$$IN = I_{in}$$

$$In l = j \cdot l$$

$$I = \frac{j}{n}$$