3. 10maéa zadaéa TESIT 05.01.2011.

LUKA PRAVICA 0036427896

a) Na(X)

$$\bigotimes(\lambda) = \mathcal{N}(\lambda) \cdot i$$

$$\mathcal{N}_{\max}(\lambda) = \frac{w}{2} = \frac{\lambda}{3} \cdot 1 = \frac{\lambda}{12}$$

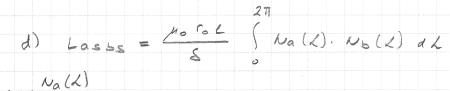
$$5) Lasas = \frac{\mu_0 r_0 e}{\delta} \left( \left[ N_a(\lambda) \right]^2 d\lambda \right)$$

$$= \frac{\mu_0 \, \Gamma_0 \, C}{6} \, \left[ \frac{1}{12} \, \frac{1}$$

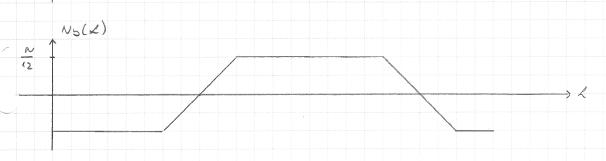
c) 
$$N_{a,1} = \frac{1}{11} \int_{0}^{2\pi} N_{a}(\lambda) \sin \lambda d\lambda = \frac{4}{11} \int_{0}^{\frac{\pi}{2}} \frac{N}{2\pi} \lambda \sin \lambda d\lambda + \int_{12}^{\frac{\pi}{2}} \sin \lambda d\lambda$$

$$=\frac{4}{\pi}\left[\frac{N}{2\pi}\left(\sin\lambda-2\cos\lambda\right)\Big|_{\lambda=0}^{\frac{\pi}{2}}-\frac{N}{42}\cos\lambda\Big|_{\lambda=\frac{\pi}{6}}\right]$$

Lasası = 
$$\frac{\mu_0 \operatorname{rol}}{S} \left[ N_{an}(d) \right]^2 dL = \frac{\mu_0 \operatorname{rol}}{S} \left[ \frac{N}{R^2} \sin L \right]^2 dL$$







$$N_{\alpha}(\zeta) \cdot N_{\beta}(\zeta)$$
 $N_{\alpha}(\zeta) \cdot N_{\beta}(\zeta)$ 

$$L_{a \le b \le} = \frac{\mu_{o} r_{o} \ell}{8} \cdot 2 \int_{0}^{\frac{\pi}{3}} \frac{-n^{2}}{144} d\ell = -\frac{n^{2}}{216} \pi \frac{\mu_{o} r_{o} \ell}{8}$$