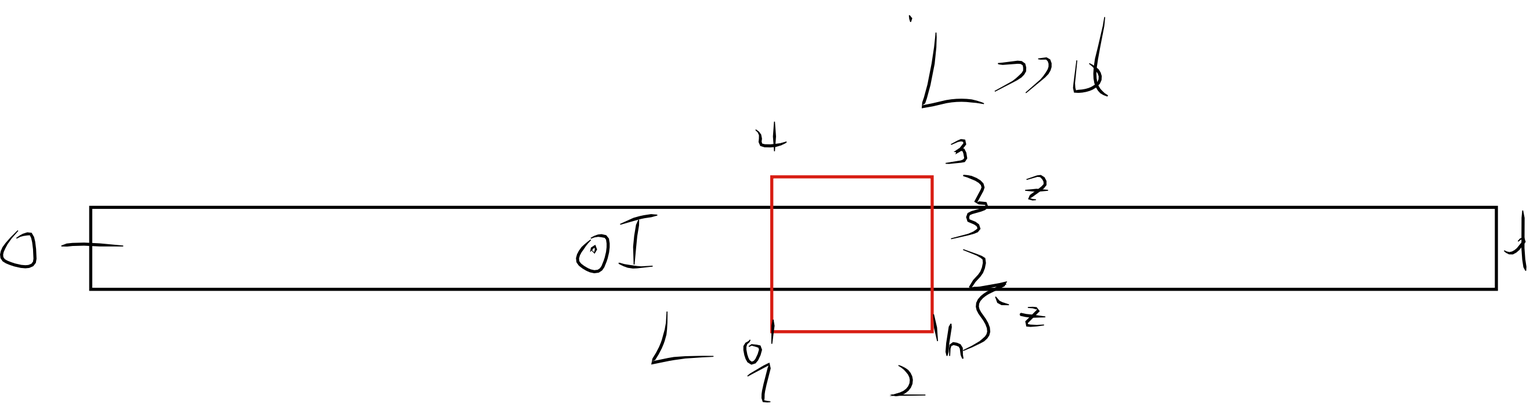

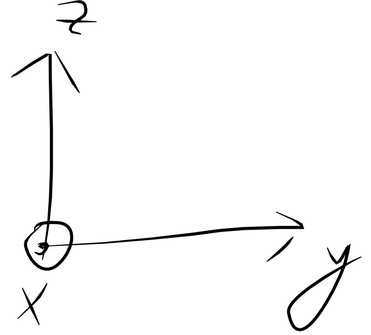

$B(x,y,z) = B(z)$ $\quad \bar{B} = B(z)\hat{e}_y$

$B(0) = 0$

$I' = I \cdot \frac{2zh}{Ld}$

$\mu_0 I' = \int_1^2 \bar{B}\cdot d\bar{l} + \int_2^3 \bar{B}\cdot d\bar{l} + \int_3^4 \bar{B}\cdot d\bar{l} + \int_4^1 \bar{B}\cdot d\bar{l} =$

$= \int_1^2 \bar{B}(z)\, d\bar{l} + \int_3^4 \bar{B}(z)\cdot d\bar{l} = -hB(z) - hB(z) = -2hB(z)$

$B(z) = \frac{-\mu_0 I}{2h}\,\frac{2zh}{Ld} = \frac{-\mu_0 I z}{Ld}$ $\quad$ dla $|z| \leq \frac{d}{2}$

dla $|z| \geq \frac{d}{2}$

$I' = I \cdot \frac{h}{L}$ $\quad B(z) = \frac{-\mu_0 I'}{2h} = \frac{-\mu_0 I}{2L}$