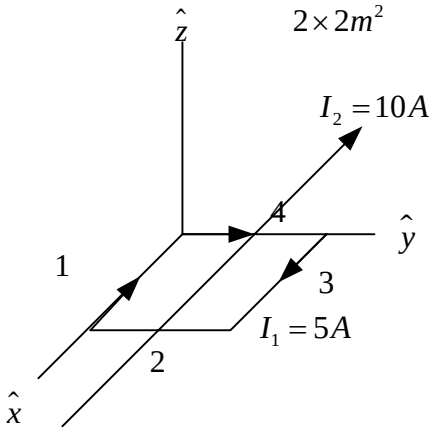
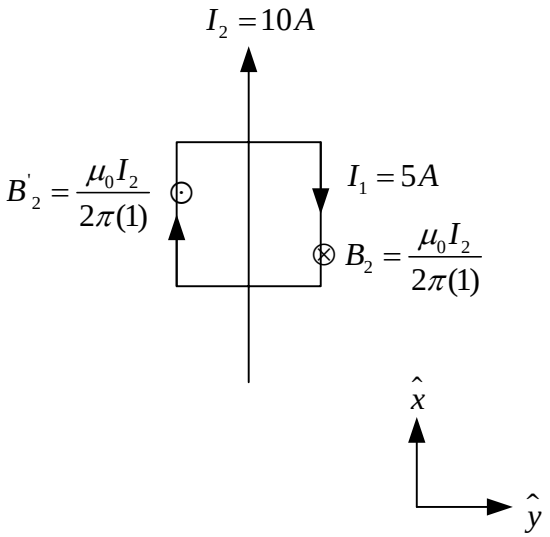
5-19





$$F = I_1 \vec{L} \times \vec{B}_2 = \frac{I_1 L \mu_o I_2}{2\pi} \hat{y} = \frac{(5)(2)\mu_0(10)}{2\pi} = 2\times 10^{-5} \hat{y}$$

both $\vec{F} \rightarrow \hat{y}$

$\Rightarrow$ total force $\vec{F} = 4\times 10^{-5} \hat{y}(N)$