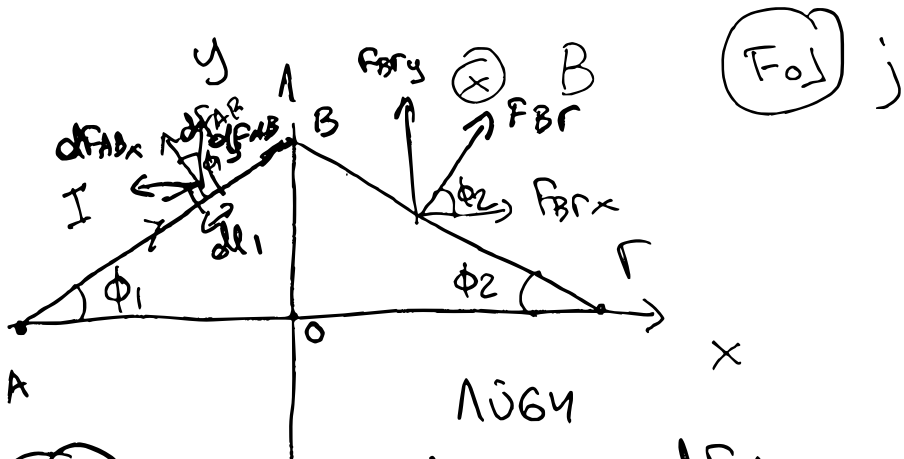


Αβύτην 5 Αγώνες (6)



(FAB) κολοχίση ω dF_{AB}
 dF_{ABx} και $\sin dF_{ABy}$

$$\vec{F}_{AB} = I \cdot d\vec{l}_1 \times \vec{B} \Rightarrow \vec{F}_{AB} = I \cdot \vec{l}_1 \times \vec{B}$$

$$\vec{F}_{ABx} = -F_{AB} \sin \phi_1 \hat{x}$$

$$F_{ABy} = F_{AB} \cos \phi_1 \hat{y}$$

(FBΓ) $\rightarrow \vec{F}_{B\Gamma} = I \cdot \vec{l}_2 \times \vec{B}$

$$F_{B\Gamma x} = F_{B\Gamma} \cos \phi_2 \hat{x}$$

$$F_{B\Gamma y} = F_{B\Gamma} \sin \phi_2 \hat{y}$$

$$\sum \vec{F}_x = \vec{F}_{ABx} + \vec{F}_{B\Gamma x} \Rightarrow$$

$$\Rightarrow \underline{\underline{\sum \vec{F}_x = -F_{AB} \cdot \sin \phi_1 \cdot \hat{x} + F_{B\Gamma} \sin \phi_2 \cdot \hat{x}}}$$

$$\sum \vec{F}_y = \vec{F}_{AB y} + \vec{F}_{B\Gamma y} \Rightarrow$$

$$\Rightarrow \underline{\underline{\sum \vec{F}_y = F_{AB} \cdot \sin \phi_1 \cdot \hat{y} + F_{B\Gamma} \sin \phi_2 \cdot \hat{y}}}$$

$$\sum \vec{F}_x = -I l_1 B \sin \phi_1 \cdot \hat{x} + I l_2 B \cdot \sin \phi_2 \cdot \hat{x} \Rightarrow$$

$$\Rightarrow \sum \vec{F}_x = I \cdot B (-l_1 \sin \phi_1 + l_2 \sin \phi_2) \cdot \hat{x} \Rightarrow$$

$$\Rightarrow \sum \vec{F}_x = I \cdot B (-A\theta + \theta\Gamma) \cdot \hat{x}$$

$$\sum \vec{F}_y = I l_1 B \sin \phi_1 \cdot \hat{y} + I l_2 B \sin \phi_2 \cdot \hat{y} \Rightarrow$$

$$\Rightarrow \sum \vec{F}_y = I \cdot B (l_1 \cdot \sin \phi_1 + l_2 \sin \phi_2) \cdot \hat{y} \Rightarrow$$

$$\Rightarrow \sum \vec{F}_y = I \cdot B (\theta B + \theta B) \cdot \hat{y} \Rightarrow$$

$$\Rightarrow \sum \vec{F}_y = 2 I B \cdot \hat{y} \cdot \theta B$$