





We know

$$\vec{B} = \left( \frac{\mu_0}{2\pi} \right) \frac{I}{r} \text{ and } F = BIl$$

$$\frac{\mu_0}{2\pi} = 2 \times 10^{-7} \frac{\text{T}\cdot\text{m}}{\text{A}}$$

or

$$\frac{\text{N}}{\text{A}\cdot\text{m}} = \frac{\text{N}}{\text{A}\cdot\text{m}}$$

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$$F_{\text{net}} = \frac{\mu_0}{2\pi} \frac{I^2}{r} l \quad \uparrow$$

$$= \left( 2 \times 10^{-7} \frac{\text{T}\cdot\text{m}}{\text{A}} \right) \left( \frac{(2.5\text{A})^2}{.03\text{m}} \right) (.1\text{m})$$

$$\frac{\text{N}}{\text{A}\cdot\text{m}} \left( \frac{\text{m}}{\text{A}} \right)$$

