



 $\frac{7}{F_2} + \frac{7}{F_4} = 0$

$$|\vec{F}_{\text{tor}}| = |\vec{F}_{1}| + |\vec{F}_{3}| = |\vec{K}_{0}| |\vec{Q}_{1}| + |\vec{K}_{0}| |\vec{Q}_{1}| + |\vec{K}_{0}| |\vec{Q}_{3}| = \frac{\ell^{2}}{2}$$

$$|\vec{F}_{\text{tor}}| = |\vec{F}_{1}| + |\vec{F}_{3}| = |\vec{K}_{0}| |\vec{Q}_{1}| + |\vec{K}_{0}| |\vec{Q}_{3}| + |\vec{K}_{0}| |\vec{Q}_{3}| = \frac{\ell^{2}}{2}$$

$$|\vec{E}_{\text{tor}}| = |\vec{F}_{1}| + |\vec{F}_{3}| = |\vec{K}_{0}| |\vec{Q}_{1}| + |\vec{K}_{0}| |\vec{Q}_{3}| + |\vec{K}_{0}| |\vec{Q}_{3}| = \frac{\ell^{2}}{2}$$

$$= \frac{2 k_0 |Q|}{\ell^2} (|Q_4| + |Q_3|) =$$

$$= \frac{2(8,33 \times 10^{3})(3,0 \times 10^{-3})}{40^{2} \times 10^{-4}}(2,0+3,0) \times 10^{-3} N =$$