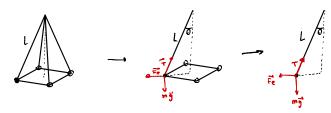
Preparcial





Equilibrio de fuerzos en ejez y plano XY:

$$F = \frac{1}{4\pi\epsilon_0} \frac{9^2}{2L^3 1 \epsilon^4 \theta}$$
$$= \frac{1}{8} \frac{9^2}{\pi\epsilon_0 L^2 5 \epsilon^4 \theta}$$

(± Dependiendo sobre weil carga se observa se ignora por la sinetria del sistema

$$|\vec{F}_{e}| = \sqrt{2} \cdot \vec{F} \left(1 + \frac{\sqrt{2}}{4} \right)$$

$$= \left(\sqrt{2} + \frac{1}{2} \right) \vec{F}$$

$$= \left(\sqrt{2} + \frac{1}{2} \right) \cdot \frac{1}{8} \frac{9^{2}}{\pi \epsilon_{0} l^{2} se^{n^{2}\theta}}$$

Así, reemplazando en las emacrones de equilibro:

Se signe que:

4
$$\frac{5e^{3}\theta}{\omega_{3}\theta} \approx \left(\frac{\sqrt{2}}{2} + \frac{1}{4}\right) \cdot \frac{1}{mg} \cdot \frac{9^{2}}{4\pi \varepsilon_{0} l^{2}}$$

$$\frac{S(n^3\theta)}{\sqrt{1-sen^2\theta}} = \left(\frac{\sqrt{2}}{2} + \frac{1}{4}\right) \cdot \frac{1}{mg} \cdot \frac{q^2}{4\pi \epsilon_0 l^2}$$

$$\frac{\operatorname{Sen}^{6}\theta}{\operatorname{I-sen}^{2}\theta} = \left[\left(\frac{\sqrt{2}}{2} + \frac{1}{4}\right) \cdot \frac{1}{\operatorname{mg}} \cdot \frac{q^{2}}{4\pi \varepsilon_{0} l^{2}}\right]^{2}$$

$$= \sum \operatorname{Sen}^{6}\theta + \left[\left(\frac{2}{2} + \frac{1}{4}\right) \cdot \frac{1}{\operatorname{mg}} \cdot \frac{q^{2}}{4\pi\epsilon_{0} \cdot l^{2}}\right]^{2} \operatorname{Sen}^{2}\theta - \left[\left(\frac{2}{2} + \frac{1}{4}\right) \cdot \frac{1}{\operatorname{mg}} \cdot \frac{q^{2}}{4\pi\epsilon_{0} \cdot l^{2}}\right]^{2} = O$$