$$E(r_1) = \frac{F_1}{9}$$

$$E(r_2) = \frac{F_1}{9}$$

$$E(r_3) = \frac{F_1}{9}$$

$$E(r_4) = \frac{F_1}{9}$$

$$E(r_4) = \frac{F_1}{9}$$

$$E(r_5) = \frac{F_1}{9}$$

$$E(r_5)$$

F =
$$E(r_2) \cdot q = \frac{\lambda}{2\pi} \cdot \frac{1}{2r_1} \cdot q = \frac{F_1}{9}$$

$$\overline{F} = E(r_2) \cdot Q = \frac{\lambda}{2\pi\epsilon_0} \cdot \frac{1}{2r_4} \cdot Q = \frac{F_1}{9} \cdot 2\pi\epsilon_5 \frac{1}{2\pi\epsilon_5} \frac{1}{2r_4}$$

$$\overline{F}_1 = E(r_2) \cdot Q = \frac{\lambda}{2\pi\epsilon_5} \cdot \frac{1}{2r_4} \cdot Q = \frac{F_1}{9} \cdot 2\pi\epsilon_5 \frac{1}{2r_4} \cdot Q = \frac{F_1}{2\pi\epsilon_5} \cdot Q = \frac$$

$$=\frac{F_1}{2}=4\mu N \approx 3.8 \mu N$$

$$1 = \frac{1}{\sqrt{\pi}c} \frac{QQ}{r_1^2} \qquad \infty \qquad Q = \frac{T_1}{r_1} \cdot \mu \pi \epsilon$$

$$F_1 = \frac{1}{4\pi\epsilon_0} \frac{qQ}{r_1^2} \qquad \text{as} \qquad Q = \frac{F_1 \cdot 4\pi\epsilon_0 r_1^2}{q}$$

$$L = \frac{1}{4\pi\epsilon_0} \frac{QQ}{\Gamma_L^2} \qquad \infty Q = \frac{T_1 \cdot 4\pi\epsilon_0}{Q}$$

$$\overline{T} = \frac{1}{4\pi\epsilon_0} \frac{qQ}{(2\epsilon_0)^2} = \frac{1}{4\pi\epsilon_0} \frac{q}{4} \cdot \frac{\overline{T}_0 \cdot L_{\overline{M}} \epsilon_0 q}{q} \cdot \frac{1}{4\epsilon_0^2} = \frac{\overline{T}_0}{4} = 2\mu C$$

$$\frac{1}{4} = \frac{F_1}{4} = 2\mu C$$

