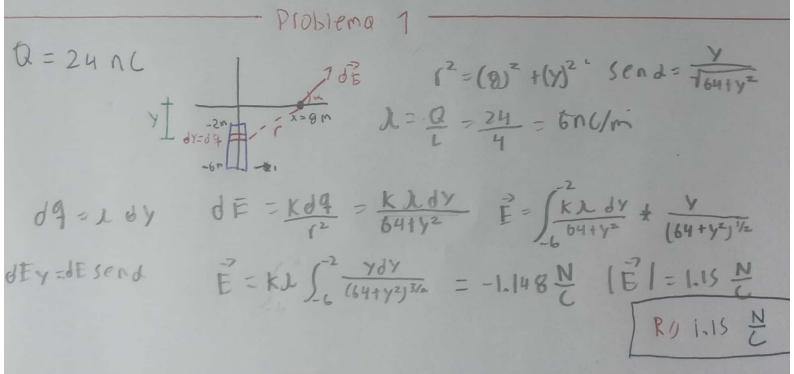
	UNIVERSIDAD DE SAN CARLOS DE GUATEMALA FACULTAD DE INGENIERÍA	FÍSICA 2 C	NOTA:
	ESCUELA DE CIENCIAS DEPARTAMENTO DE FÍSICA	1S2023	
	INGA, CLAUDIA CECILIA CONTRERAS FOLGAR DE ALFARO	AUX. ANGEL QUIM	

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Hosa de fraxaso



Problema 2 GOP HILLM = 1 dq - ldx $dE = \frac{Kdq}{K^2} = \frac{K\lambda dx}{K^2}$ -4n -2n 3n E= KA / dx = 12.86 2 (-1) R11 1=1 = 13 N (-7) Q = 10 m (R=0.15m

Problema 3

- Problema 4

POT Simetria se anvia
$$\lambda = Q = Q = u.244 \times 10^{-3} C$$
Relation of the second of the

$$\lambda = \frac{dq}{Rd\theta} \qquad dq = \lambda Rd\theta \qquad dE = \frac{kdq}{r^2} = \frac{k\lambda Rd\theta}{R} = \frac{k\lambda Rd\theta}{R}$$

$$\frac{\vec{E}}{E} = 2 \int \frac{K L (05000)}{K L (05000)} = 3.6 \times 10^{9} \frac{N}{C} (47)$$

$$q_0 = \frac{\vec{F_0}}{E} = \frac{0.1}{3.6 \times 10^{9}} = 27.78 \times 10^{-12}$$

$$\frac{R}{I} = \frac{0.1}{3.6 \times 10^{9}} = 27.78 \times 10^{-12}$$

Q=15nC

Q=15 nC

Por sinetria los

componentes

x se anvian

$$d_{2.5}^{2.5}$$

$$d_{3}^{2.5}$$

$$d_{4}^{2.5}$$

$$d_{4}^{2.5}$$

$$d_{5}^{2.5}$$

$$d_{7}^{2.5}$$

$$dE = \frac{kdq}{q+y^2} = \frac{k\lambda dv}{q+y^2}$$

$$dE = \frac{Kdq}{q+y^2} = \frac{K L dV}{q+y^2} = \frac{2}{q+y^2} \left(-\frac{5}{q+y^2} \right)$$

1 = 10 m

Problema 5

$$\lambda = \frac{Q}{L} = \frac{8 \times 10^{-9}}{10} = \frac{U}{5} \frac{nC}{m}$$

$$dq = kdx$$
 $dE = \frac{kdq}{(2)} = \frac{k \lambda dx}{(11.5-x)^2}$

$$E_{p} = K \lambda \int_{0}^{10} \frac{dx}{(11.5-x)^{2}} = 4.17 \frac{N}{C}$$

$$F_{E} = 0.8$$

$$q_{0} = \frac{F_{e}}{E} = \frac{0.8}{4.17} = 6.1918 \, C = 192 \times 10^{-3} \, C$$

$$R/l = 0.1918 \, C = 192 \times 10^{-3} \, C$$

Problema 6

$$Q = 0.471 \, \text{nC} \quad \theta = 60^{\circ} = 17/3$$

$$R = 0.18 \, \text{m}$$

Por simetria los confonentes "x" se anvian