

$$A = (1/2, 1/2)$$

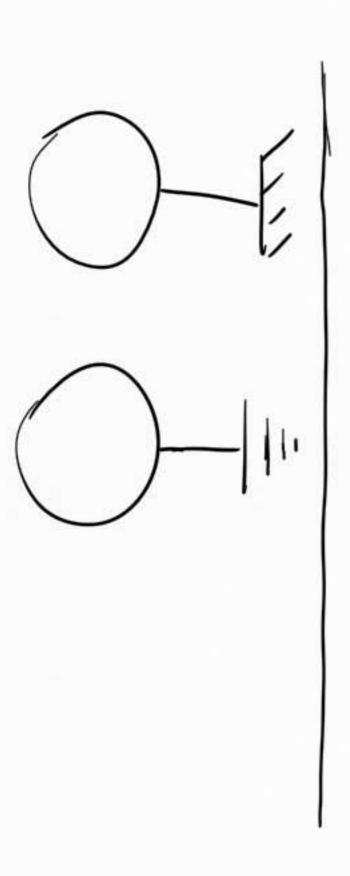
$$B = (1/3, 1/3)$$

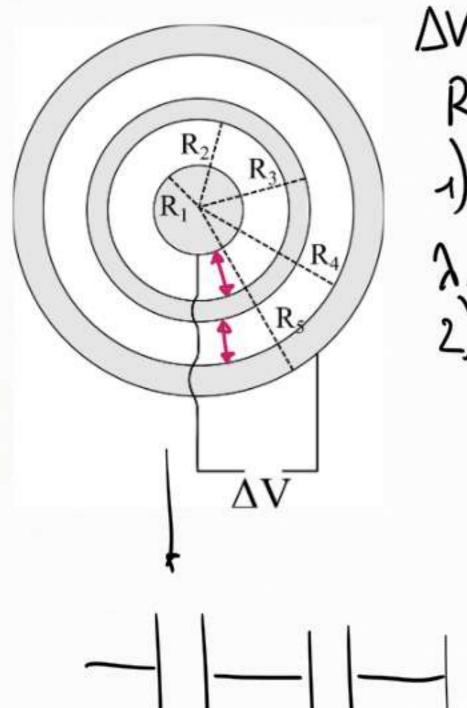
$$X$$

$$\Delta V_{p}^{8A} = -\frac{1}{\xi_{0}} \left( \frac{1}{2} - \frac{1}{3} \right) > 0$$

$$\Delta V_{q}^{8A} = \frac{9}{4\pi \xi_{0}} \left( \frac{1}{28} - \frac{1}{24} \right)$$

$$28 = \sqrt{\frac{2}{3}}, 7_{A} = \sqrt{\frac{2}{4}}$$



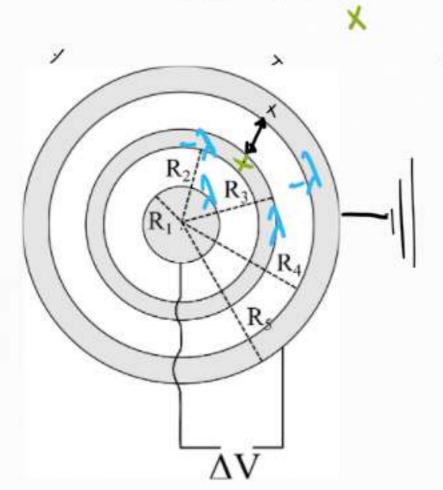


ΔV = 10V, R1 = 10 cm, R2 = 12 cm, R3 = 15 cm
R4 = 20 cm, R5 = 22 cm
1) λ1, λ2, λ3, λ4, λ5 sepure σ1, σ2, σ5, σ5, σ5
λ1 = σ2πRi
2) il conduttore externo viene mesos a
terra, ΔV0 = V(R3) - V(2>R5)

DV = 
$$\frac{\lambda}{2\pi \epsilon_o} \left( log \frac{R_e}{R_i} \right)$$

$$\Delta V = \frac{\lambda}{2\pi \epsilon_0} \left( \log \frac{R_2}{R_1} + \log \frac{R_4}{R_3} \right)$$

$$V(R_3) - V(2)R_5 = \frac{\lambda}{2\pi \epsilon_0} \log \left( \frac{R_4}{R_3} \right)$$



3.20 MNV 
$$q = 8.10^{-9}C$$
,  $\rho(z) = bz$   
A) colcolore  $b$ ,  $z > E(z) = 3 \Delta V = V(0) - V(R)$   
 $q = \int dq = \int_{r} \rho dr = \int_{r} bz dr = \int_{0} bz 4\pi z^{2} dz = \int_{0}^{R} z^{3} dz = \pi b R^{4} = q = 2$ 

$$\Delta V = -\int_{0}^{R} E(x) dx$$

4.34 MNV K

1) 
$$\Delta U_e = 2 \cdot E = 3 \cdot P$$

1)  $\Delta U_e = U_e^{(f)} - U_e^{(i)} > 0$ 

1)  $\Delta U_e = \frac{1}{2} (KC_o - C_o) V_o^2 = \frac{1}{2} (K-1) C_o V_o^2$ 

1)  $C_o = \frac{\epsilon_o \Sigma}{1} = \frac{\epsilon_o \pi R^2}{1}$ 

2) 
$$E = \frac{V_0}{J}$$
,  $q = cV_0$ 

1) 
$$C = ?$$
 2) dots  $\Delta V$ ,  $Q = ?$ ,  $U_{e} = ?$   
 $\Delta V = \Delta V_{1} + \Delta V_{2} = E_{1} \frac{d}{2} + E_{2} \frac{d}{2} =$ 

$$= \frac{E_{0}}{K_{1}} \frac{d}{2} + \frac{E_{0}}{K_{2}} \frac{d}{2} = \frac{Q}{\Sigma E_{0}} \frac{d}{2} \left( \frac{1}{K_{1}} + \frac{1}{K_{2}} \right) =$$

$$= \frac{Q}{C} = \frac{1}{C} + \frac{1}{C} = \frac{1}{C} + \frac{1}{C} = \frac{1}{C} + \frac{1}{C} = \frac{1}{C} + \frac{1}{C} = \frac{1}{C} = \frac{1}{C} + \frac{1}{C} = \frac{1}{C} = \frac{1}{C} + \frac{1}{C} = \frac{$$

$$\frac{\sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \frac{3\kappa_{i} \tilde{\epsilon} \tilde{\Sigma}}{d} c_{eq}^{(i)}}{\sum_{i=1}^{n} \sum_{i=1}^{n} \frac{1}{d}} c_{eq}^{(i)}$$

$$\frac{\sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \frac{3\kappa_{i} \tilde{\epsilon} \tilde{\Sigma}}{d} c_{eq}^{(i)}}{\sum_{i=1}^{n} \sum_{i=1}^{n} \frac{1}{d}} c_{eq}^{(i)}$$

$$\frac{\sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \frac{3\kappa_{i} \tilde{\epsilon} \tilde{\Sigma}}{d}}{c_{eq}^{(i)}} c_{eq}^{(i)}$$