$$r$$
 θ
 y

$$\begin{cases} X = 7 & \text{nn} \theta & \cos \varphi \\ Y = 7 & \text{nn} \theta & \text{nn} \varphi \\ Z = 8 & \cos \theta \end{cases}$$

$$\begin{cases} \hat{\zeta}, \hat{\theta}, \hat{\phi} \\ \hat{\zeta}, \hat{\theta}, \hat{\phi} \end{cases}$$

$$d\tau = ds, ds_2 ds_3 = dx dy dz$$

$$ds_2 = dz$$

$$ds_0 = zd\theta$$

$$ds_0 = z\sin\theta d\phi$$

$$f(z)d\tau = \sqrt[2\pi]{2\pi}$$

$$\int f(z)d\tau \Rightarrow \int f(z)4\pi z^2 dz$$

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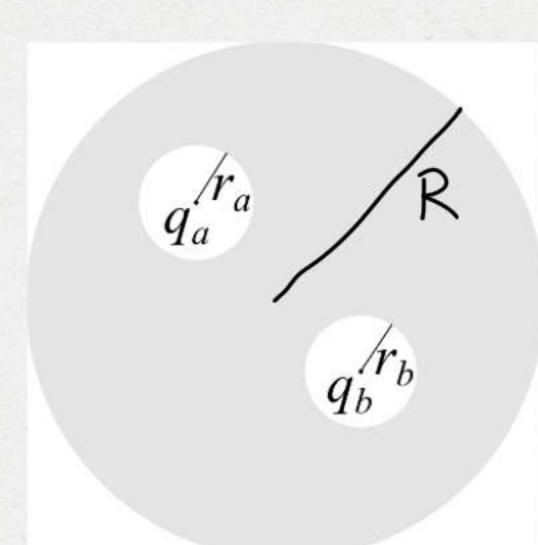
$$R_{5}$$

$$R_{6}$$

$$R_{7}$$

$$R_{7$$

ESERCIZIO 17



.90

- 7) 52,06,5
- 2) E (2>R)
- 3) Ea, Eb all'interns delle due courtoi
- 4) Le foure cle sentono 90 e 95
- 5) Cosa cambria genalitativamente se ponete una corice que fuori dal conduttore

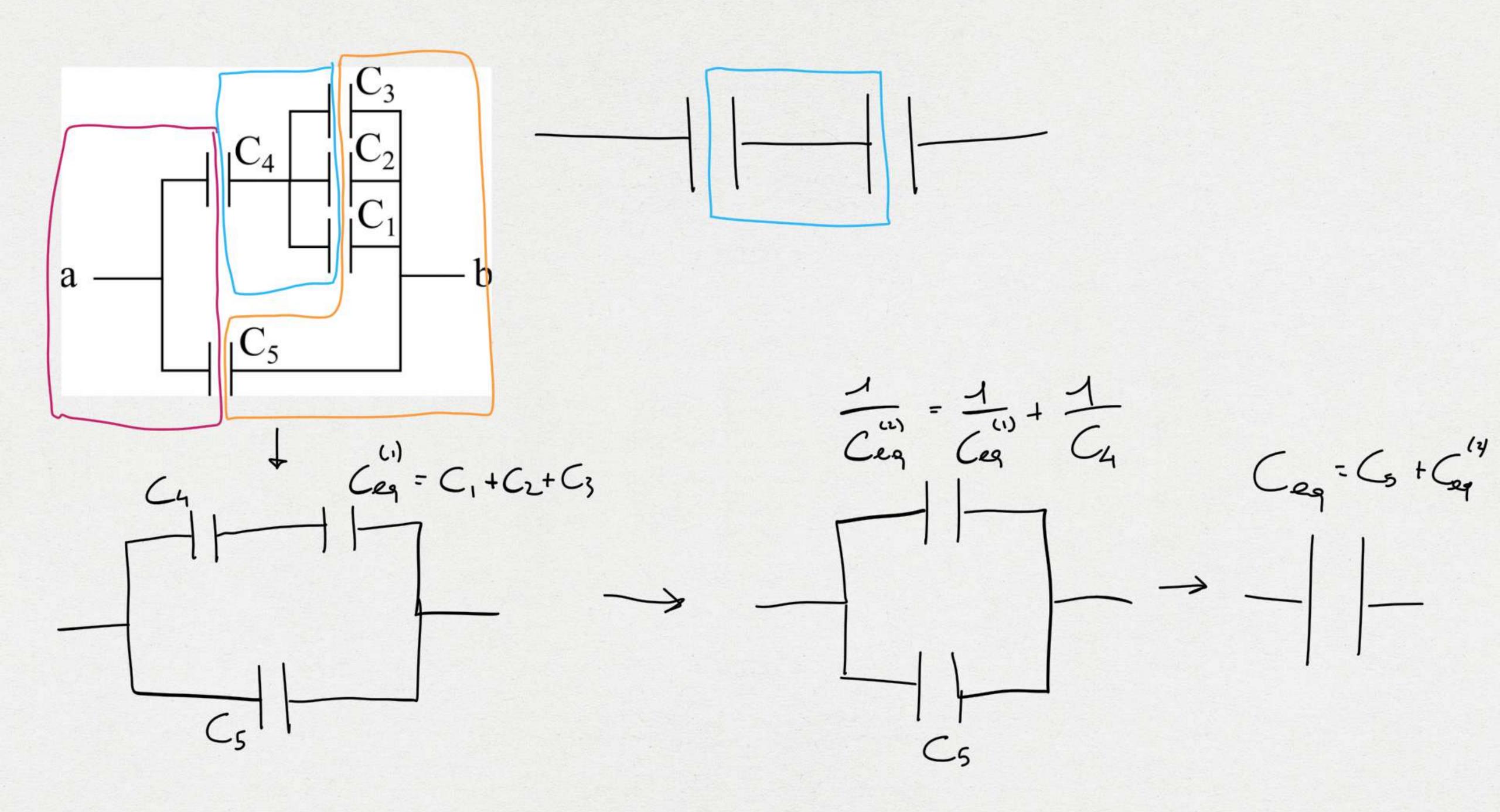
a
$$\begin{bmatrix} C_4 & C_2 \\ C_2 & C_2 \\ C_1 & C_2 \end{bmatrix}$$

$$C_1, C_2, C_3, C_4, C_5$$

$$C_5 & C_5 & C_6 & C_7 & C_$$

1) DETERMINARE Ceq

2) CALCOLARE 9 i 2 DVi V CA



$$94 = 9eq = 94 = 94$$
 $94 = 9eq = 9e$

$$V_{A} = C$$

$$V_{C_{c}} = C$$

$$C_{c} = 3C$$

$$V_{A} = 10V$$

$$V_{C} = ? = 15V$$

$$V_{C_{b}} = C$$

$$V_{A} = C$$

$$V_{C_{c}} = C$$

$$\Delta V = V_1 - V_2$$

a) CALCOLARE 9,92,93
$$Q = C \triangle V$$

$$Q = C \triangle V$$

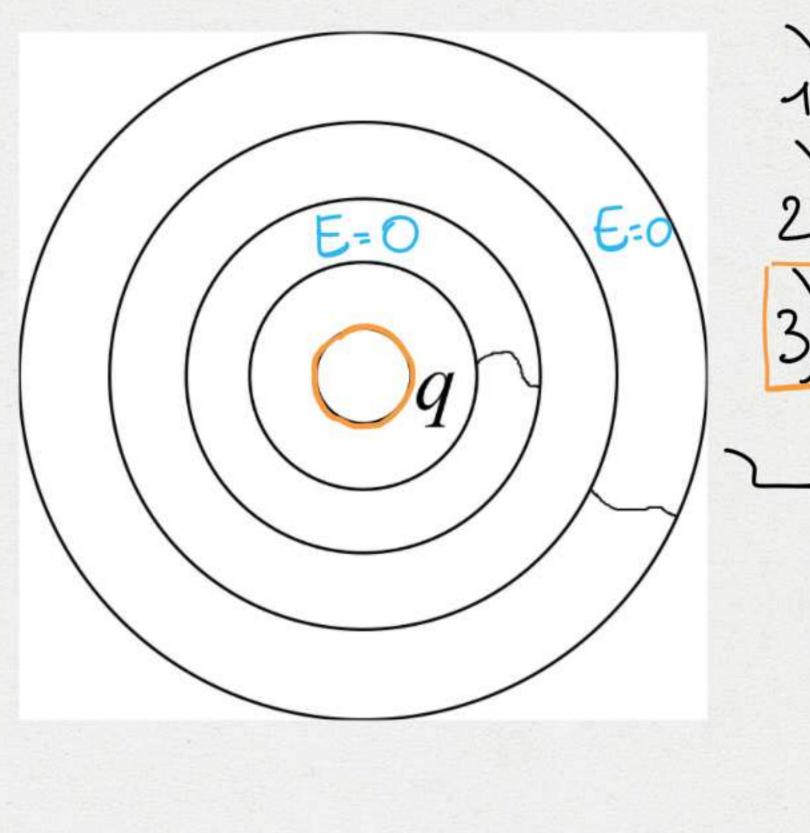
$$\frac{C}{A} = \frac{1}{2} = \frac{1}$$

LIBERA

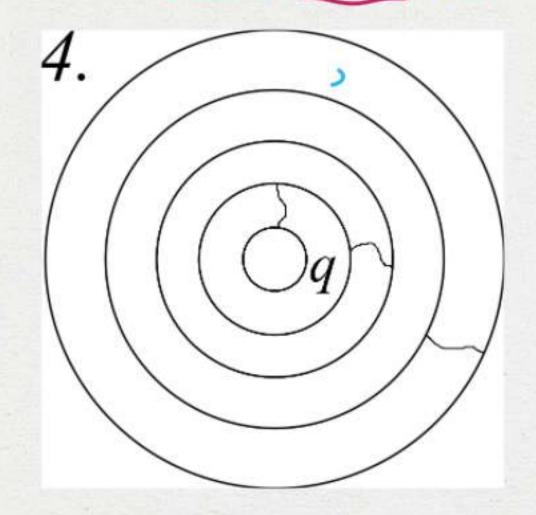
Q

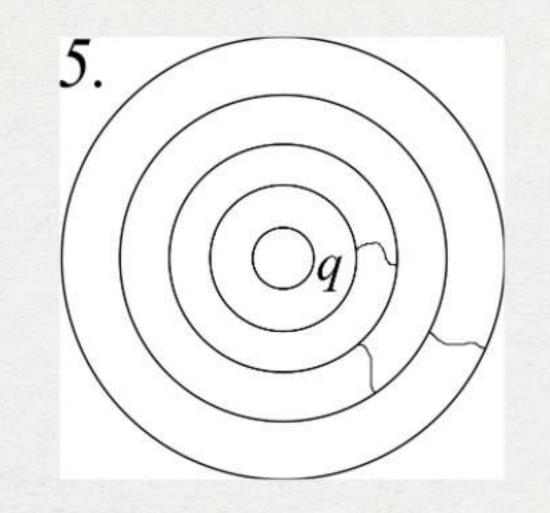
LIBERA

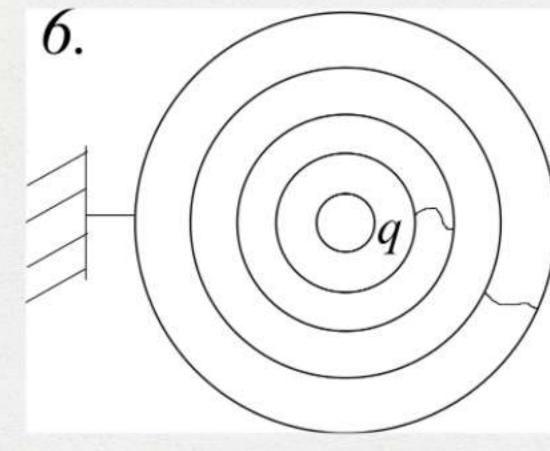
$$V_2 = \frac{9^3}{4\pi \xi_0 R_3} \Rightarrow \sqrt{95} = \sqrt{24\pi \xi_0 R_3}$$



1) le couche present sulle superfici 2) E(2)







$$U_{e} = \frac{1}{2} \frac{9^{2}}{2}$$

$$U_{e} = \frac{1}{2} \frac{9^{2}}{C_{1}} + \frac{1}{2} \frac{9^{2}}{C_{2}} = \frac{1}{2} \frac{9^{2}}{C_{eq}}$$

$$C = 4\pi \varepsilon_{0} \frac{R_{1}R_{2}}{R_{2}-R_{1}} \xrightarrow{R_{1}} \frac{R_{1}}{R_{2} + \infty} \xrightarrow{R_{1}} \frac{1}{R_{2} + \infty}$$

$$U_{e} = \frac{1}{2} \frac{9^{2}}{C_{1}} + \frac{1}{2} \frac{9^{2}}{C_{2}} = \frac{1}{2} \frac{9^{2}}{C_{2}}$$

$$U_{e} = \frac{1}{2} \frac{9^{2}}{C_{1}} + \frac{1}{2} \frac{9^{2}}{C_{2}} = \frac{1}{2} \frac{9^{2}}{C_{2}}$$