

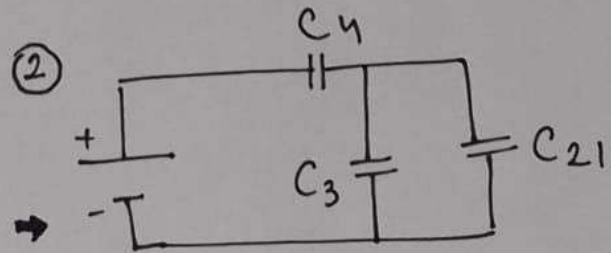
$$*C_2 = k \cdot C_2$$

$$C_3 = k C_0$$

$$C = \frac{Q}{V}$$

① → C_1 y C_2 en serie:

$$\Rightarrow \frac{1}{C_{21}} = \frac{1}{C_1} + \frac{1}{C_2}$$

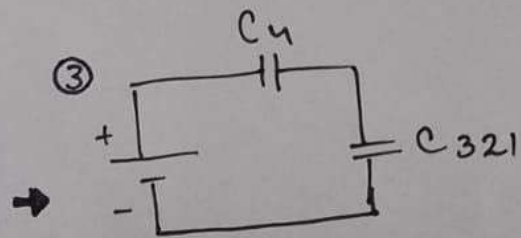


$$V_{21} = V_2 + V_1$$

$$Q_{21} = Q_1 = Q_2$$

② → C_{21} y C_3 en Paralelo:

$$\Rightarrow C_{321} = C_{21} + C_3$$

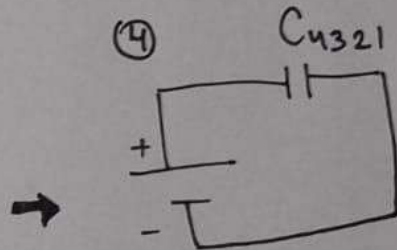


$$V_{321} = V_{21} = V_3 \quad \text{a)}$$

$$Q_{321} = Q_{21} + Q_3 \rightarrow C_3 \cdot V_3 = Q_3$$

③ → C_{321} y C_4 en serie:

$$\Rightarrow \frac{1}{C_{4321}} = \frac{1}{C_{321}} + \frac{1}{C_4}$$



$$V_{4321} = V_{321} + V_4 \quad \text{b)}$$

$$Q_{4321} = Q_{321} = Q_4 \rightarrow V_4 = \frac{Q_4}{C_4}$$

$$\rightarrow C_{eq} = C_{4321} \rightarrow U = \frac{1}{2} C_{eq} V^2 \quad \text{c)}$$