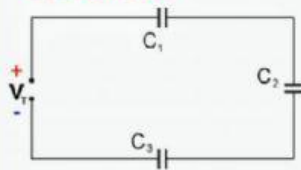


CONDENSADORES EN SERIE Y PARALELO

XXXXXXXXXXXXXXXXXX

En Serie

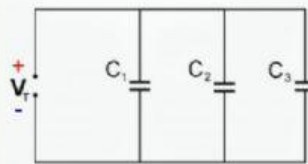


$$Q_T = Q_1 = Q_2 = Q_3$$

$$V_T = V_1 + V_2 + V_3$$

$$\frac{1}{C_{eq}} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}$$

En Paralelo



$$Q_T = Q_1 + Q_2 + Q_3$$

$$V_T = V_1 = V_2 = V_3$$

$$C_{eq} = C_1 + C_2 + C_3$$

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

Donde:
C= capacidad (F)
Q= carga (C)
V= voltaje (Vol)

$$1\mu F = 10^{-6} F$$

$$1pF = 10^{-12} F$$

$$1nF = 10^{-9} F$$

XXXXXXXXXXXXXXXXXX



$$Q_T = Q_1 = Q_2 = Q_3$$

$$V_T = V_1 + V_2 + V_3$$

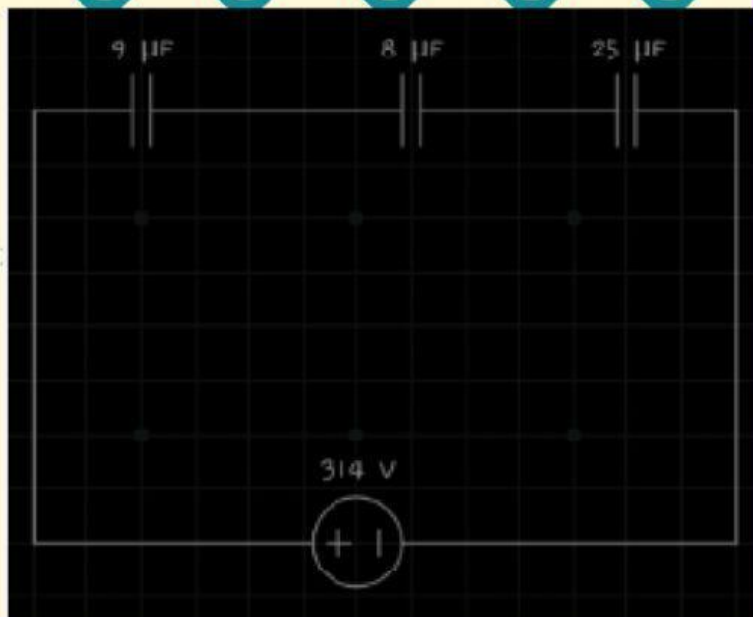
$$\frac{1}{C_{E0}} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}$$

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

$$C_1 = 9\mu F$$

$$C_2 = 8\mu F$$

$$C_3 = 25\mu F$$



Calcula la capacidad total

$$\frac{1}{C_T} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}$$

$$\frac{1}{C_T} = \frac{1}{\dots} + \frac{1}{\dots} + \frac{1}{\dots}$$

$$\frac{1}{C_T} = \dots$$

$$C_T = \dots = \dots \times 10$$

Calcula el voltaje unitario

$$V_1 = \frac{Q_1}{C_1} = \frac{\dots \times 10}{\dots \times 10} = \dots$$

$$V_2 = \frac{Q_2}{C_2} = \frac{\dots \times 10}{\dots \times 10} = \dots$$

$$V_3 = \frac{Q_3}{C_3} = \frac{\dots \times 10}{\dots \times 10} = \dots$$

$$V_T = \dots + \dots + \dots = \dots$$

Calcula la carga total y unitaria

$$Q_T = C_T \cdot V_T$$

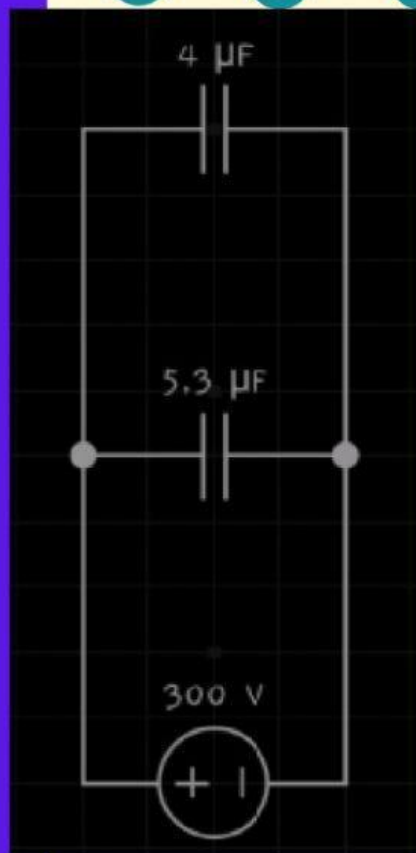
$$Q_T = \dots \times 10 \cdot \dots$$

$$Q_T = \dots \times 10 \dots$$

$$Q_1 = \dots \times 10 \dots$$

$$Q_2 = \dots \times 10 \dots$$

$$Q_3 = \dots \times 10 \dots$$



$$Q_T = Q_1 + Q_2 + Q_3$$

$$V_T = V_1 = V_2 = V_3$$

$$C_{eq} = C_1 + C_2 + C_3$$

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

$$C_1 = 4\mu F$$

$$C_2 = 5,3\mu F$$

Calcula la capacidad total

$$C_T = C_1 + C_2$$

$$C_T = \dots\dots + \dots\dots = \dots\dots F = \dots\dots \times 10^{-6} F$$

Calcula el voltaje total y unitario

$$V_T = \dots\dots vol = V_1 = V_2$$

Calcula la carga total y unitaria

$$Q_T = C_T * V_T = \dots\dots \times 10^{-6} F * \dots\dots vol = \dots\dots \times 10^{-3}$$

$$Q_1 = C_1 * V_1 = \dots\dots \times 10^{-6} F * \dots\dots vol = \dots\dots \times 10^{-3}$$

$$Q_2 = C_2 * V_2 = \dots\dots \times 10^{-6} F * \dots\dots vol = \dots\dots \times 10^{-3}$$