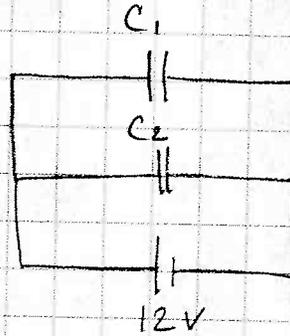


$$\begin{aligned} a) \quad C_1 &= 600 \mu\text{F} \\ C_2 &= 300 \mu\text{F} \\ V_{\text{eq}} &= 12 \text{ V} \end{aligned}$$



$$C_{\text{eq}} = \sum C_i \text{ (parallel)}$$

$$C_{\text{eq}} = (600 \mu\text{F}) + (300 \mu\text{F})$$

$$C_{\text{eq}} = 900 \mu\text{F}$$

b) For parallel, individual voltages equal V_{eq}

$$V_1 = V_2 = V_{\text{eq}} = 12 \text{ V}$$

$$c) \quad V_1 = V_2 = 12 \text{ V}$$

$$\text{For } C_1: \quad C_1 = \frac{Q_1}{V_1} \quad \text{so} \quad 600 \mu\text{F} = \frac{Q_1}{12 \text{ V}}$$

$$Q_1 = 7200 \mu\text{C}$$

$$\text{For } C_2: \quad C_2 = \frac{Q_2}{V_2} \quad \text{so} \quad 300 \mu\text{F} = \frac{Q_2}{12 \text{ V}}$$

$$Q_2 = 3600 \mu\text{C}$$