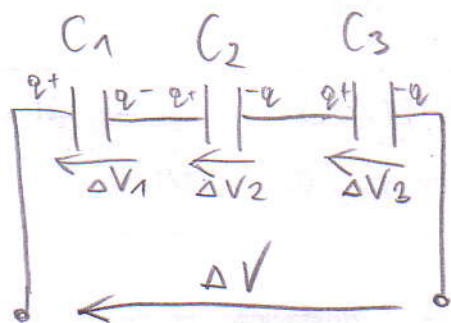




$$C = \frac{q}{\Delta V} \quad [C/V] = [F]$$

$$[F] = \left[\frac{A \cdot s}{V} \right]$$

$$C_1 = \frac{q}{\Delta V_1} \quad C_2 = \frac{q}{\Delta V_2} \quad C_3 = \frac{q}{\Delta V_3}$$

$$\Delta V = \frac{q}{C_x} \quad \checkmark$$

$$\Delta V_1 = \frac{q}{C_1} \quad \Delta V_2 = \frac{q}{C_2} \quad \Delta V_3 = \frac{q}{C_3} \quad \checkmark$$

$$\Delta V = \Delta V_1 + \Delta V_2 + \Delta V_3$$

$$\frac{q}{C_x} = \frac{q}{C_1} + \frac{q}{C_2} + \frac{q}{C_3} \quad | : q$$

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

$$\frac{1}{C_n} = \sum_{i=1}^n \frac{1}{C_i}$$