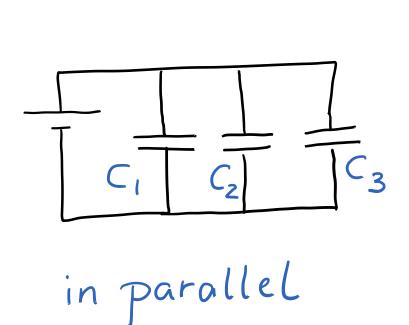
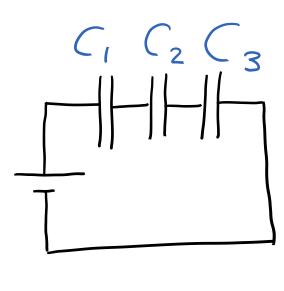
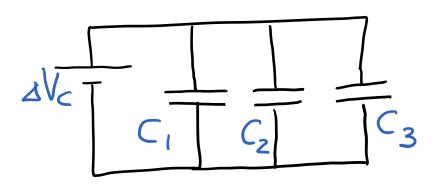
Lecture 10: Capacitor networks





in series

Capacitors in parallel



in parallel

Capacitors in series

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

$$Q_1 = Q_2 = Q_3 = Q_{net}$$

$$\frac{\Delta V_1}{Q_1} + \frac{\Delta V_2}{Q_2} + \frac{\Delta V_3}{Q_3} = \frac{\Delta V}{Q_{net}}$$

$$\frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3} = \frac{1}{C_{eq}}$$
in Series
$$\frac{1}{C_1} = \sum_{i=1}^{l} \frac{1}{C_{eq}}$$

$$\frac{1}{C_1} = \sum_{i=1}^{l} \frac{1}{C_{eq}}$$

$$\frac{1}{C_1} = \sum_{i=1}^{l} \frac{1}{C_{eq}}$$

