

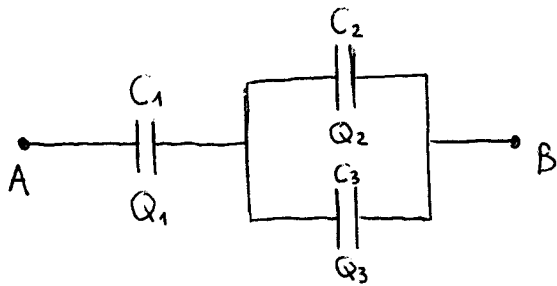
15.)

$$Q_{\max} = 1,2 \mu\text{C} \quad U_{AB \max} = ?$$

$$Q = CU$$

$$C_e = \sum C_i \quad \text{párhuzamos}$$

$$C_e = \frac{1}{\sum \frac{1}{C_i}} \quad \text{soros}$$



$$C_1 = 9 \text{ nF} \quad C_2 = 18 \text{ nF} \quad C_3 = 36 \text{ nF}$$

$$Q_1 = Q_{23} \quad \text{soros kapcsolás}$$

$$Q_{23} = Q_2 + Q_3 \quad \text{párhuzamos kapcsolás} \rightarrow Q_1 \text{ a legnagyobb}$$

$$Q_1 = Q = 1,2 \mu\text{C}$$

$$U_{AB} = U_1 + U_{23} = \frac{Q}{C_1} + \frac{Q}{C_{23}} = \dots$$