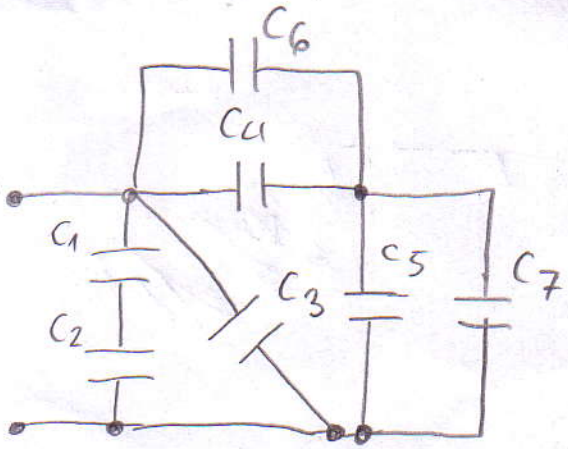

$C_x = ?$

$$C_{12} = \frac{C_1 \cdot C_2}{C_1 + C_2}$$

$$C_{46} = C_4 + C_6$$

$$C_{57} = C_5 + C_7$$

$$C_{4567} = \frac{C_{46} \cdot C_{57}}{C_{46} + C_{57}} = \frac{(C_4 + C_6) \cdot (C_5 + C_7)}{(C_4 + C_6) + (C_5 + C_7)}$$

$$C_x = C_{12} + C_3 + C_{4567}$$

$$C_x = \frac{C_1 \cdot C_2}{C_1 + C_2} + C_3 + \frac{(C_4 + C_6) \cdot (C_5 + C_7)}{(C_4 + C_6) + (C_5 + C_7)}$$