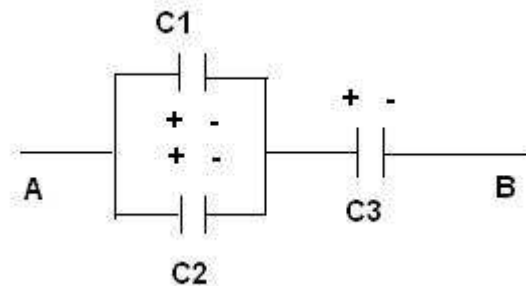


Exercises

Exercise 1: Three capacitors with 1, 2 and 5 microfarads correspondently are connected in series and a voltage of 10 000 Volts is applied to the free ends. Find: a) the capacitance of the connections b) the voltage drop found in each capacitor and the charge of each of them.

Exercise 2: Repeat the previous exercise, but assuming that the capacitors are associated in parallel.

Exercise 3: $C_1=1\mu\text{ F}$, $C_2=2\mu\text{ F}$, $C_3=3\mu\text{ F}$ y $V_A-V_B=1200$ volts,



Find:

- The capacitance of the connection,
- The charge of each capacitor,
- The voltage drop between the terminals of each capacitor