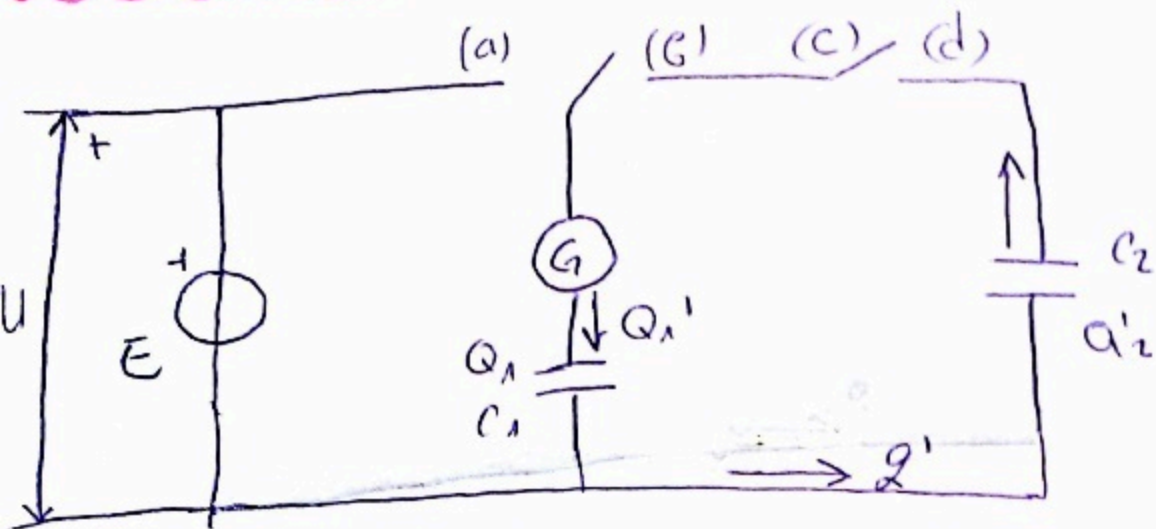


# ВЕТСБА 3



$$C_1 = 50 \mu\text{F}$$

$$Q_{10} = Q_{20} = 0$$

$$C_2 = 32 \mu\text{F}$$

$$U = E = 6\text{V}$$

$$Q_1 = C_1 U = C_1 E = 300 \mu\text{C}$$

Каг се преклобник пребаци у положај (b) вага су оба кондензатора на игом напону

$$U' = \frac{Q_1'}{C_1} = \frac{Q_2'}{C_2} = \frac{q'}{C_2} \quad \text{јер је } q' = Q_2'$$

$$Q_1' C_2 = q' C_1 \quad Q_1 + Q_2' = Q_1 = Q_1' + q'$$

$$(Q_1 - q') C_2 = q' C_1$$

$$Q_1 C_2 - q' C_2 - q' C_1 = 0$$

$$q' = Q_1 \frac{C_2}{C_1 + C_2} = 117,0731707 \mu\text{C}$$

$$Q_1' = Q_1 - Q_2' = 182,9268293 \mu\text{C}$$