⑦ -) Beda potensial melalui C_1 diberikan oleh :

$$C_{euiv_2} = C$$

$$C_{euiv_3} = C_1 + C_6 = C'$$
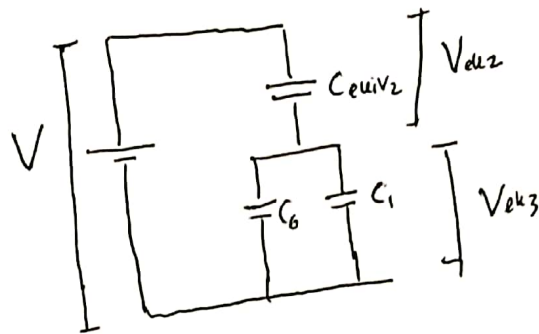
$q_{euiv_3} = q_{euiv_2} = q_{total} \rightarrow$ karena disusun seri

Maka, kita dapatkan hubungan tegangan

$$V_{tot} = V_{euiv_2} + V_{euiv_3}$$

$$V_{tot} = V_{eu_2} + V'_{eu_3}$$

$$\frac{q_{tot}}{C_{tot}} = \frac{q_{euiv_2}}{C_{euiv_2}} + \frac{q_{euiv_3}}{C_{euiv_3}}$$

$$\frac{1}{C_{tot}} = \frac{1}{C} + \frac{1}{C'}$$

$$\frac{1}{C_{tot}} = \frac{C + C'}{CC'}$$

$$C_{tot} = \frac{CC'}{C + C'}$$

$$V_1 = \frac{q_{euiv_3}}{C_{euiv_3}}$$

$$= \frac{q_{tot}}{C_1 + C_6}$$

maka :

$$V_1 = \frac{q_{tot}}{C'}$$

$$= \frac{C_{tot} \cdot V_{tot}}{C'}$$

$$V_1 = \frac{\frac{CC'}{C+C'}}{C'} \times V$$

$$V_1 = \frac{C}{C+C'} \times V \quad \text{atau}$$

$$V_1 = \left(\frac{C_{eq_2}}{C_{eq_2} + C_{eq_3}}\right) V = \frac{6\mu F\,(20V)}{6\mu F + 6\mu F} = 10\,V$$