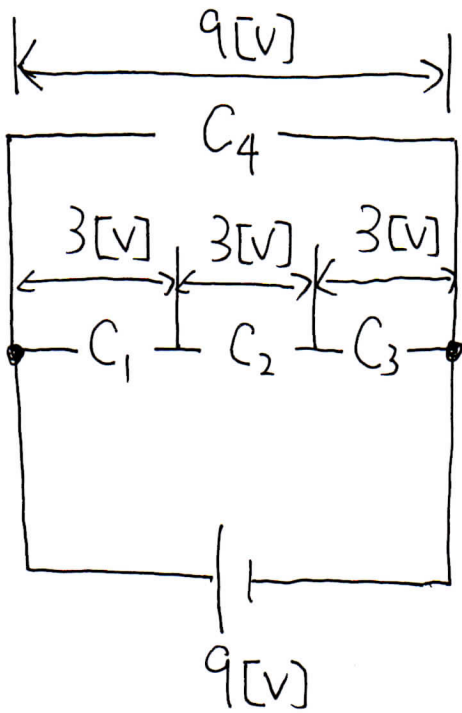


静電容量が等しい

$$C_1 = C_2 = C_3 = C_4$$



$$\begin{cases} Q = C_1 V_1 \\ Q = C_2 V_2 \\ Q = C_3 V_3 \end{cases}$$

⇓

$$\begin{cases} 6[\mu\text{C}] = C_1 V_1 \\ \quad \quad = C_1 \cdot 3 \\ \therefore C_1 = \frac{6 \times 10^{-6}}{3} = 2 \times 10^{-6} \\ \quad \quad = 2[\mu\text{F}] \end{cases}$$

$C_1 = C_4$ としてもあまるから、

$$\begin{aligned} Q &= C_4 V \\ &= 2 \times 10^{-6} \times 9 \\ &= 18 \times 10^{-6} = 18[\mu\text{C}] \end{aligned}$$

18 //