技術系問題演習講座記述 電気

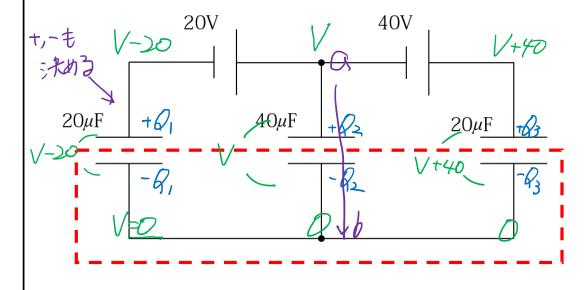
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(1) 屬荷保存則
$$-Q_{1}-Q_{2}-Q_{3}=0$$

$$\therefore Q_{1}+Q_{2}+Q_{3}=0 \cdots ①$$

ったいよっつ

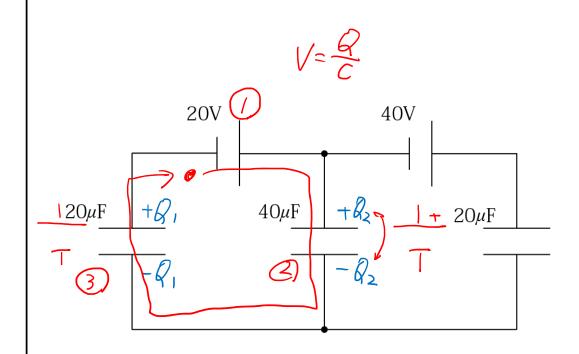
$$(Q = CV)$$
 $Q_1 = 20(V-20)$
 $Q_2 = 46V$
 $Q_3 = 20(V+40)$
 $O(V-20) + 40V + 20(V+40)$
 $O(V-20) + 40V + 20(V+40)$
 $O(V-20) + 40V + 20(V+40)$



$$\chi_{1} \cup \mathcal{C}_{1} , \mathcal{T}_{1}$$

$$\mathcal{D} \qquad \qquad \boxed{2}$$

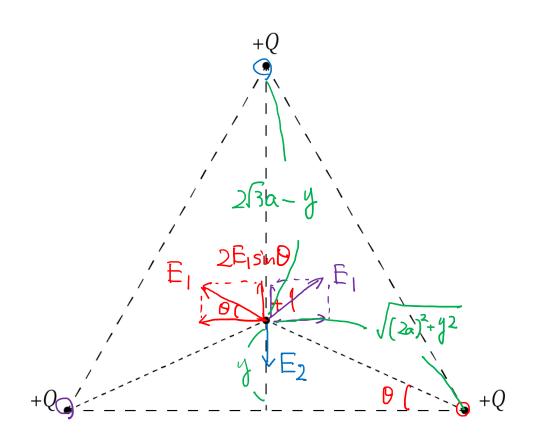
$$20 + \frac{\partial I}{20} = \frac{Q_{2}}{40} \implies Q_{2} = 800 + 2Q_{1}$$



$$E = 2E_1 \sin \theta - E_2$$

$$E_1 = \frac{1}{4\pi\xi_0} \frac{Q}{4\alpha^2 + y^2}$$

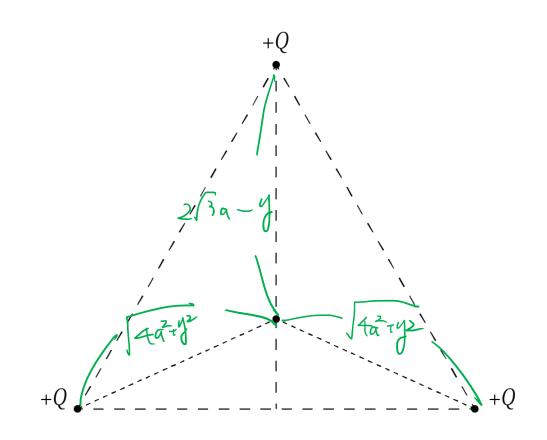
$$E = \frac{Gy}{2\pi\xi_0(4\alpha^2+y^2)^2} - \frac{\chi}{4\pi\xi_0(2\sqrt{3}\alpha-y^2)^2}$$



$$V = 2 \times \frac{1}{4\pi \xi_0} \times \frac{Q}{(4\alpha^2 + y^2)^{\frac{1}{2}}} + \frac{Q}{4\pi \xi_0(2\pi \alpha - y)}$$

$$= \frac{Q}{2\pi \xi_0(4\alpha^2 + y^2)^{\frac{1}{2}}} + \frac{Q}{4\pi \xi_0(2\pi \alpha - y)}$$

$$E = \left| \frac{dV}{dy} \right|$$



$$\frac{\partial}{\partial x} = \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}{2} - \frac{1}{2} \alpha \right) + \frac{\partial}{\partial x} \left(\frac{1}$$

