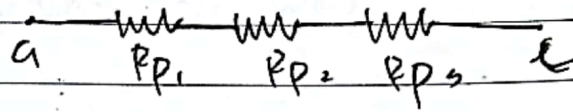
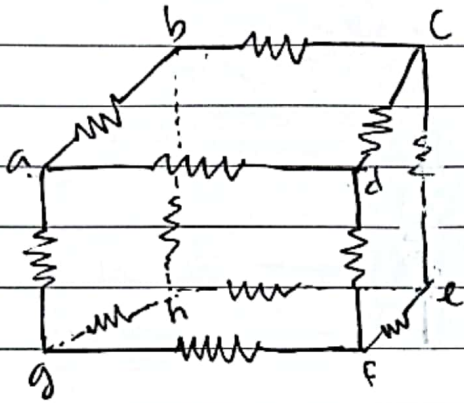


Nama: Elpin Nurul Rahmayani

Hpm : 2013022038

No
Date



$$\frac{1}{R_{P1}} = \frac{1}{R_{ab}} + \frac{1}{R_{ad}} + \frac{1}{R_{ag}}$$

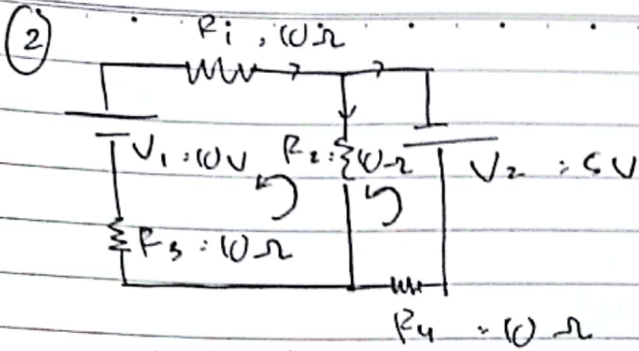
$$\frac{1}{R_{P2}} = \dots$$

$$\frac{1}{R_{P3}} = \frac{1}{R_{ec}} + \frac{1}{R_{eh}} + \frac{1}{R_{ef}}$$

① Hitung hambatan a e

$$R_{Pae} = \frac{1}{R_{P1}} + \frac{1}{R_{P3}}$$

$$= \left(\frac{1}{R_{ab}} + \frac{1}{R_{ad}} + \frac{1}{R_{ag}} \right) + \left(\frac{1}{R_{ec}} + \frac{1}{R_{eh}} + \frac{1}{R_{ef}} \right)$$



$$V_1 > V_2$$

Hitung arus pada masing² loop

Loop I :

$$\sum V + \sum I \cdot R = 0$$

$$-10 + (I_1 \cdot 10 + 10) + I_3(10) = 0$$

$$-10 + 20I_1 + 10I_3 = 0$$

$$20I_1 + 10I_3 = 10$$

$$20(I_2 + I_3) + 10I_3 = 10$$

$$20I_2 + 20I_3 + 10I_3 = 10$$

$$20I_2 + 30I_3 = 10$$

Loop II :

$$\sum V + \sum IR = 0$$

$$-5 + 10I_2 + 10I_3 = 0$$

$$10I_2 + 10I_3 = 5$$

$$* 20I_2 + 30I_3 = 10$$

$$10I_2 + 10I_3 = 5$$

$$20I_2 + 30I_3 = 10$$

$$30I_2 + 30I_3 = 15 \quad -$$

$$-10I_2 = -5$$

$$I_2 = 5$$

$$* 10I_2 + 10I_3 = 5$$

$$10(-0,5) + 10I_3 = 5$$

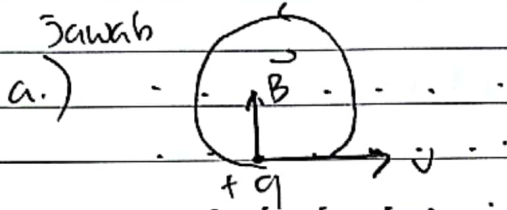
$$5 + 10I_3 = 5$$

$$10I_3 = 5 - 5$$

$$I_3 = 0$$

3. $+q \rightarrow v$

- Gambar arah gerakan muatan titik tsb
- Rumuskan jumlah putaran setiap detiknya



b) $\vec{B} = \frac{q v \cdot \hat{r}_0}{r^2}$

$F = q v \times \vec{B}$

$F = m \cdot a$

$= m \left(\frac{v}{t} \right) = \frac{v}{\left(\frac{s}{v} \right)}$

$q v B = m \frac{v^2}{r}$

$r = \frac{m v}{q b}$

$T = \frac{2 \pi r}{v}$

$= 2 \pi \left(\frac{m v}{q B} \right)$

$= \frac{2 \pi m}{q B}$

$f = \frac{1}{T} = \frac{q B}{2 \pi m}$