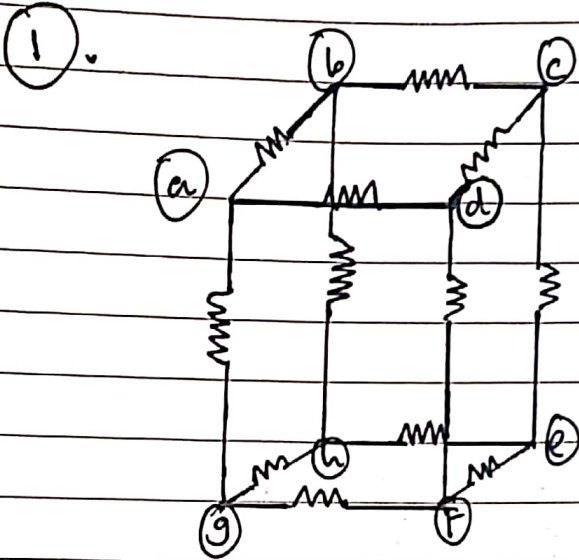


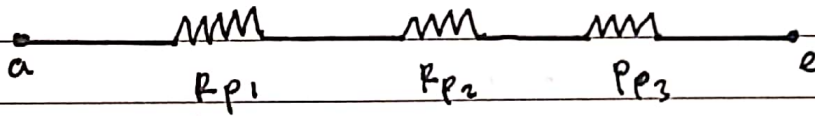
Nama: Sihpa Zharika

NPM : 2013022062

Kelas : B



*) Hitung hambatan A E

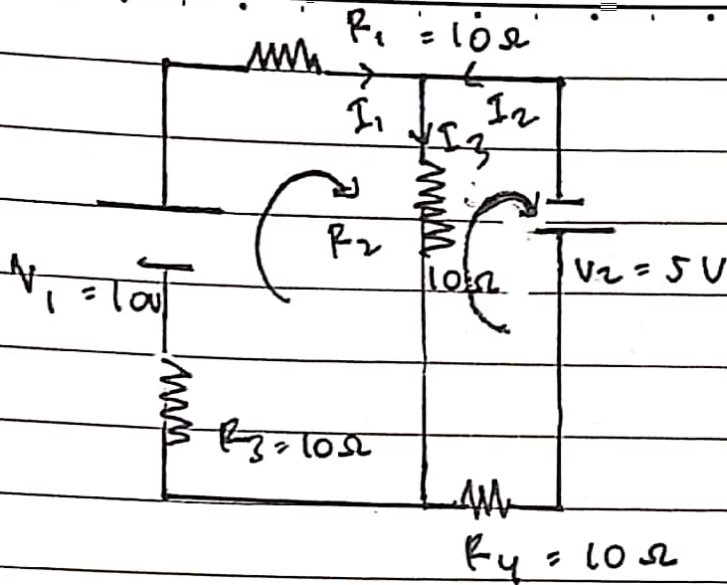


$$\frac{1}{R_{p1}} = \frac{1}{R_{ab}} + \frac{1}{R_{ad}} + \frac{1}{R_{ag}}$$

$$\frac{1}{R_{p3}} = \frac{1}{R_{ec}} + \frac{1}{R_{eh}} + \frac{1}{R_{ef}}$$

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

(2.)



$$V_1 > V_2$$

Hitung arus pada masing-masing loop

$$I_1 = I_2 + I_3$$

1) loop I

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

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

karena $I_1 = I_3 - I_2$

$$-10V + 10I_3 + 20(I_3 - I_2) = 0$$

$$-10V + 10I_3 + 20I_3 - 20I_2 = 0$$

$$-10V + 30I_3 - 20I_2 = 0 \quad \dots \text{pers (1)}$$

$$20I_2 + 30I_3 = 10 \quad \rightarrow$$

2) loop II

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

$$5V + 10I_2 + 10I_3 = 0 \quad \dots \text{pers (2)}$$

Substitusikan pers (2) dan (3)

$$20 I_2 + 30 I_3 = 10 \quad | \times 1$$

$$10 I_2 + 10 I_3 = 5 \quad | \times 3$$

$$\downarrow \quad 20 I_2 + 30 I_3 = 10$$

$$\underline{30 I_2 + 30 I_3 = 15}$$

$$-50 I_2 = -5$$

$$I_2 = \frac{-5}{-50}$$

$$= 0,1$$

$$= 0,1$$

$$10 (0,1) + 10 I_3 = 5$$

$$10 I_3 = 5 - 1$$

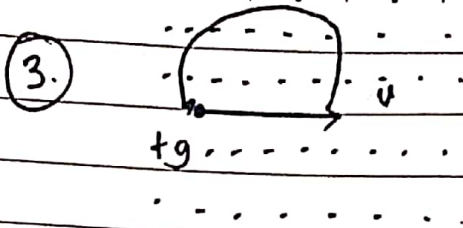
$$I_3 = 0,4$$

$$I_1 = I_2 + I_3$$

$$= 0,1 + 0,4$$

$$= 0,5$$

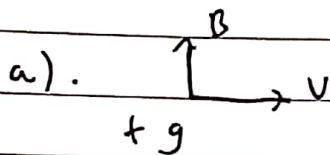
//



a). Gambarkan arah partikel muatan listrik tersebut

b). Rumuskan jumlah putaran setiap detiknya

Pengelasan



b). $F = \frac{1}{T} \rightarrow F = \frac{1}{T}$

$$T = \frac{2\pi r}{v} \quad F = \frac{1}{\frac{2\pi m}{aB}}$$

$$T = \frac{2\pi m v}{AB} \quad F = \frac{aB}{2\pi m}$$

$$T = \frac{2\pi m}{4B}$$