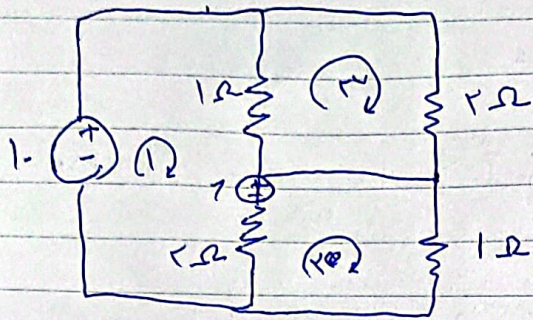


نہ روش مشق :



$$\textcircled{1} I_1 - I_2 + 7 + 2(I_1 - I_3) = V$$

$$\textcircled{2} 2(I_2 - I_1) + I_2 + 2(I_2 - I_3) = 0$$

$$\textcircled{3} 2I_2 + 2(I_2 - I_3) + 2(I_3 - I_1) = 1$$

$$\left. \begin{aligned} 3I_1 - 2I_2 - 2I_3 &= V - 7 \\ -I_1 + 4I_2 - 2I_3 &= 0 \end{aligned} \right\} \Rightarrow \begin{aligned} 3I_1 - 2I_2 - 2I_3 &= V - 7 \\ -I_1 + 4I_2 - 2I_3 &= 0 \end{aligned}$$

$$-2I_1 - 2I_2 + 7I_3 = 7 \Rightarrow I_3 = \frac{I_1}{2} + \frac{I_2}{2} + 1$$

$$\left. \begin{aligned} 3I_1 - 2I_2 &= 3V - 12 \\ 7I_1 + 11I_2 &= 7 \end{aligned} \right\} \Rightarrow \begin{aligned} 3I_1 - 2I_2 &= 18V - 12 \\ 7I_1 + 11I_2 &= 7 \end{aligned}$$

$$41I_2 = 18V - 20 \Rightarrow I_2 = \frac{18V - 20}{41} \text{ and } I_1 = \frac{191V - 37}{1381}$$

$$I = \frac{\partial I_1}{\partial V}$$



اعمال نیجاری

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