Electrical Assignment-I

Mayank Croyal

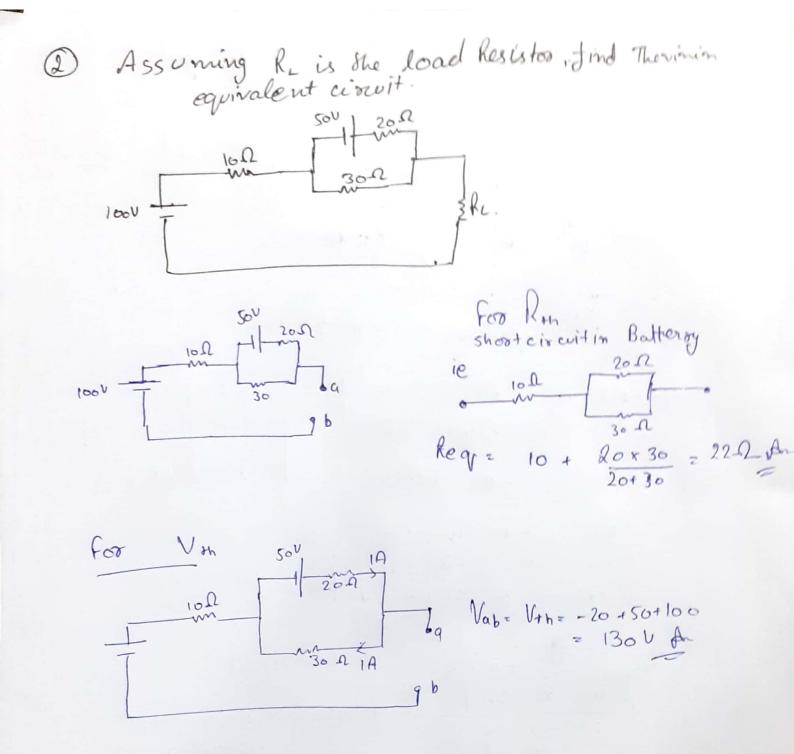
2 K19/A13/26

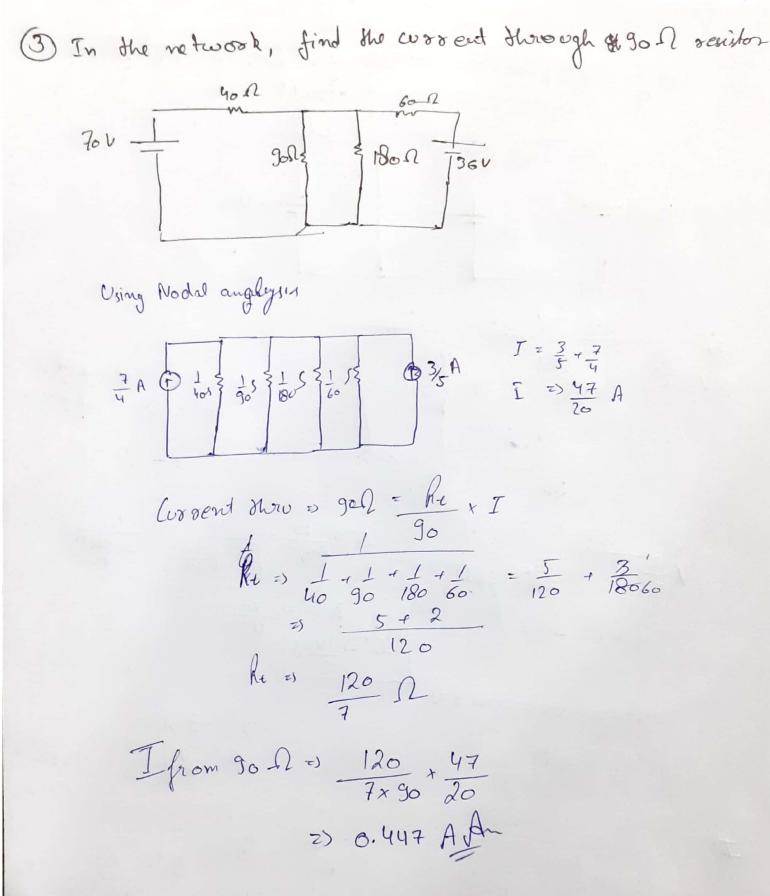
Civil Engineering (Ind sam)

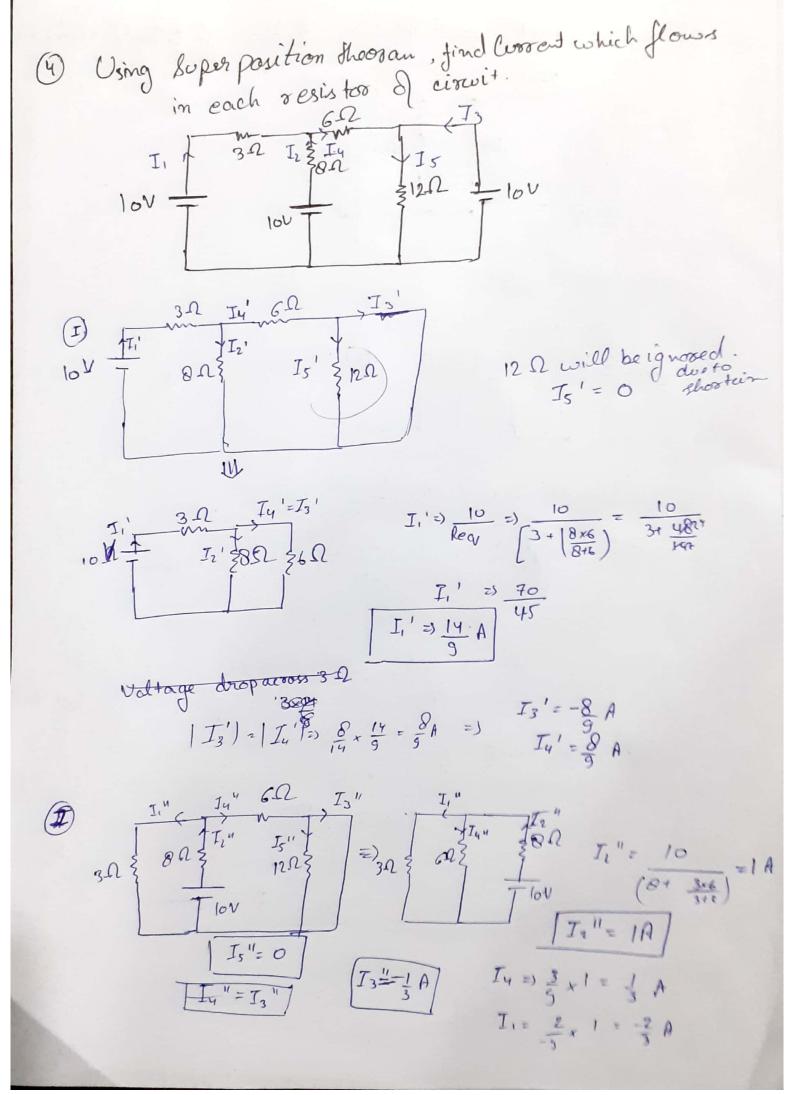
find the correct delinered by the battery

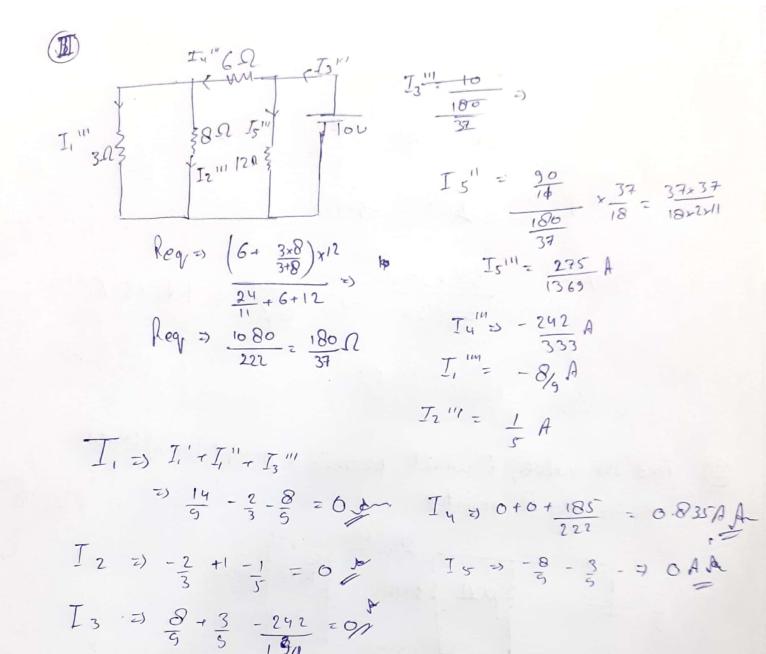
Corrent delivered by bottery = I,

=> 2.8A

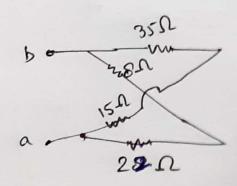








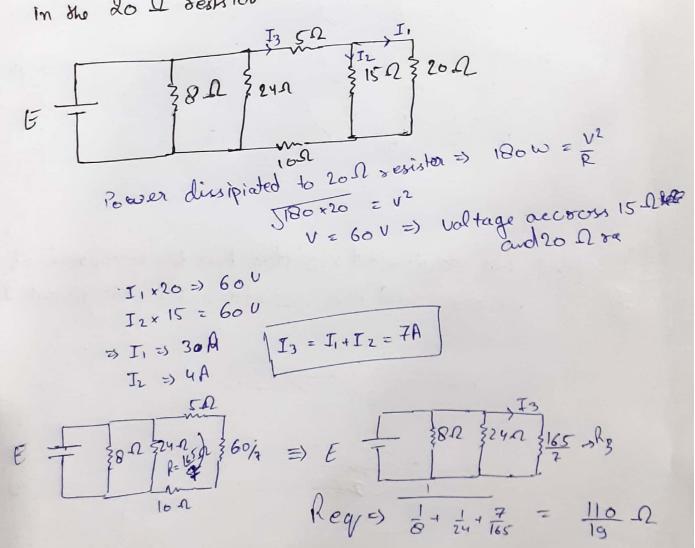
(5) Find the equivalent resistor b/w the terminals as where, all the resistor values are given in



$$Reav = \frac{30 \times 50}{30 + 50} = \frac{1509}{80} = 18.75\Omega$$

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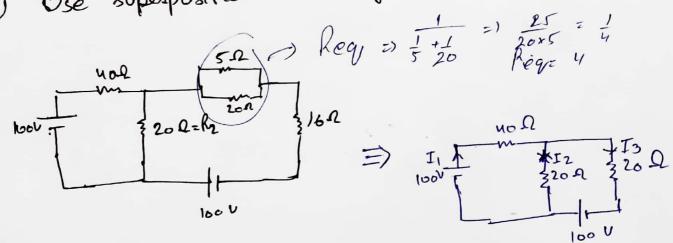
6 find the value E which parmits a dissipiation of 180 w in the 20 1 desistor.

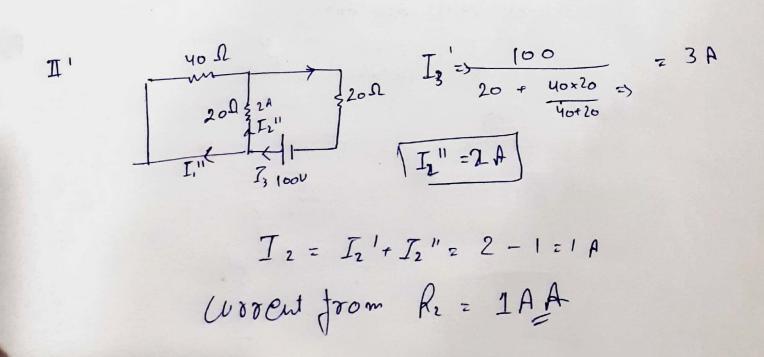


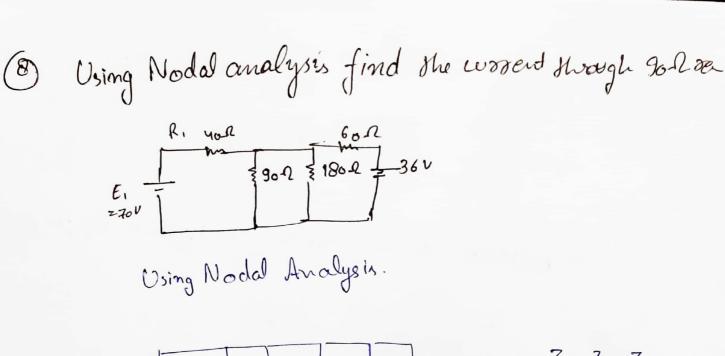
$$T_{3} \Rightarrow \underbrace{E}_{R_{3}} \Rightarrow \underbrace{E}_{165} \times 7$$

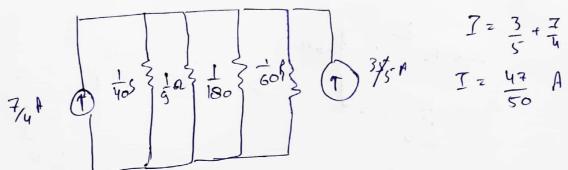
$$E = 165 V \text{ An}$$

(7) Use superposition theorem, find the worsent flowin Rz-201









Current through 90 of resistant
$$\frac{2}{90}$$
 I

$$\frac{1}{R+} = \frac{1 \times 3}{40 \times 3} + \frac{1}{90 \times 1} + \frac{1}{180} + \frac{1}{60 \times 1}$$

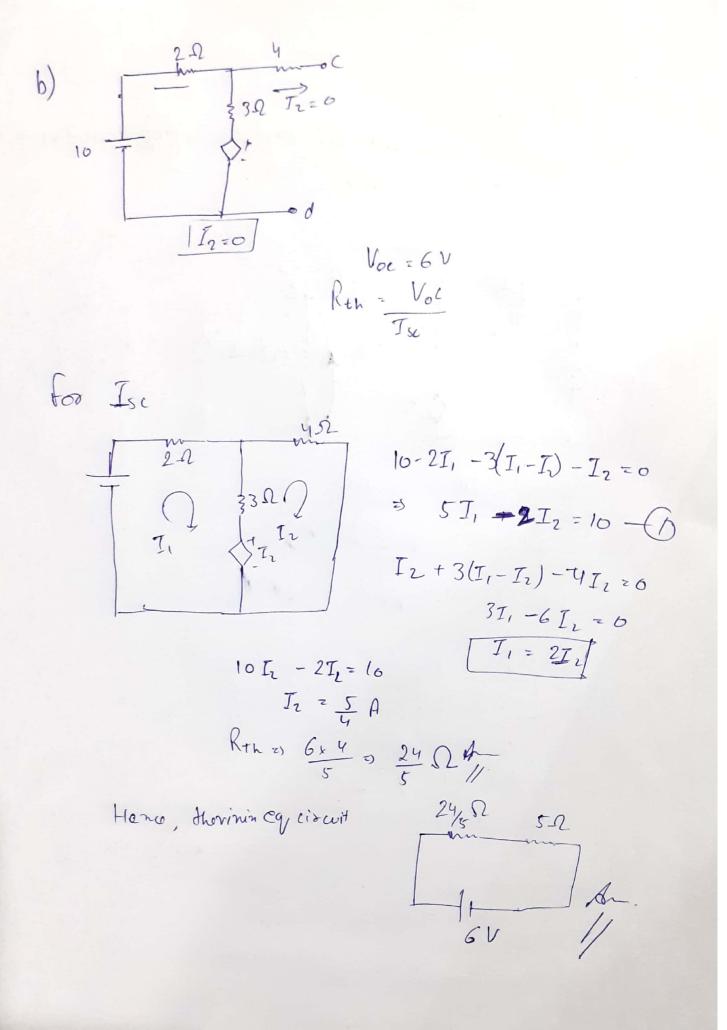
$$= \frac{5}{110} + \frac{3}{18060 \times 2} + \frac{7}{120}$$

$$Re = \frac{120}{7}$$

- a) value & I,
- b) Therimin's equivalent b/w chd removing correct source and 51 resistante

a
$$I_{I}$$
 I_{I} $I_$

a)
$$I_1 = \frac{90}{49} = 1.83 A$$



(10) find the word through 3 I resistor.