| 03/12/2017 | RECITATION #9  |
|------------|--|
|            |  |
| - Aur      | The resistery R, LR, are Romerted in wins.             |
|            | $\mathcal{B}_{13} = \mathcal{R}_{1} + \mathcal{R}_{3}$ |
|            | = 10+30<br>= 40 KJL                                    |
|            |  |
|            | The resistary 8,3 and R2 are removeted in parallel.    |
|            | $R_{1300} = \frac{R_{13}R_2}{R_{13}+R_2}$              |
|            | 10 + 40<br>2 10 × 40                                   |
|            | = 8 k s  |
| _          | The total equipolant resistance is -                   |
| _          | Reg = Rizing + Ry                                      |
|            | = 8+30<br>= 38 k s                                     |
|            |  |

The time constant by: (p)  $\tau = RC$ = 38×10<sup>3</sup> ×100×10<sup>-3</sup> = 38005 The western of heathern is:  $|(\mathcal{U})|$ 1 = 24+24 = 481 My survey if in V= ER = 1,26 × 10-3 = 1-26 m A The time is :-I= I (1- e+ I = I (1-6-400)

