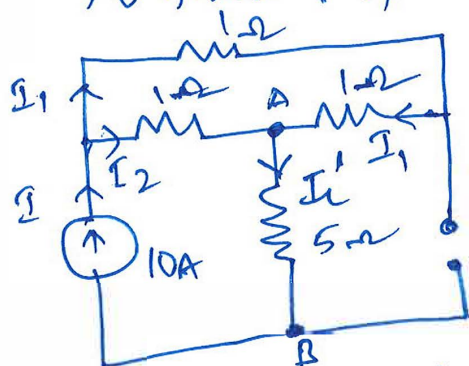


current through $R_L = 5\Omega$

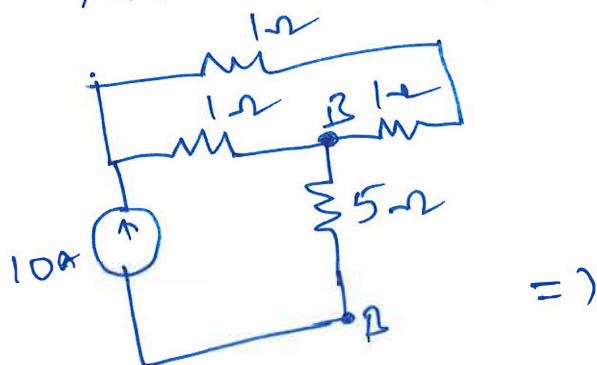
To find response I_L' due to 10A Source



$$I_L' = I_1 + I_2 \quad I = I_1 + I_2$$

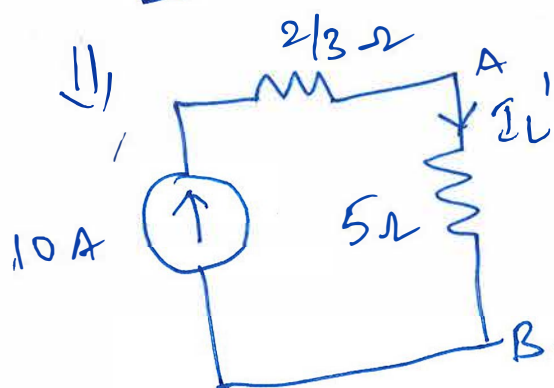
$$\therefore I_L' = I = 10A$$

Alternatively,



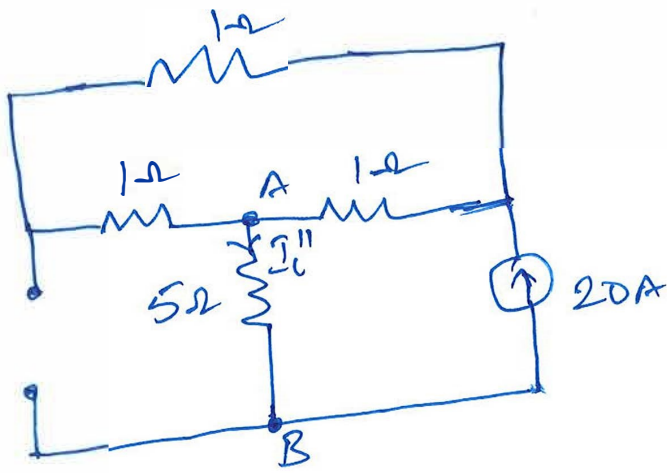
$$1\Omega + 1\Omega = 2\Omega$$

$$1\Omega \parallel 2\Omega = \frac{2}{3}\Omega$$



$$I_L' = 10A$$

To find response I_L'' due to 20A Source



$$I_L'' = 20 \text{ A}$$

$$I_L = I_L' + I_L'' = 10 + 20 = 30 \text{ A}$$

$$V_L = I_L \cdot R_L = 30 \cdot 5 = 150 \text{ V}$$