Find wrent though the switches for t7,0

Sd tco No could four (o.c.)

$$T = \frac{1.2}{(.1+.2)} = 4$$
 $f_{n} = AC$ 

$$v_{4i} = \frac{6}{11.2} = 20 \text{ A}$$

$$i = 20 + Ae$$

$$-t/c$$
  
 $+Ac$   
 $A=-20$   $\Rightarrow$   $v=20(1-c)$ 

At  $t = 3 \sec i = 20(1 - e^{-3/4}) = 10.55 A$ 

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$$i_{f_2} = \frac{G}{1.5} = 4A$$

$$1 = 4 + A_2 e$$

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Sol 
$$t < 0$$
  $v = 0$   $v = 0$ 

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$$R_{th} (alres L) (30||60) + 10 = \frac{30 \times 60}{30 \times 10} + 10 = 30 - 2$$

$$C = \frac{120m}{30} = 4msec$$

$$i_{f_{L}} = A e$$

$$i_{f_{L}} = \frac{90}{60 + 10} + 30$$

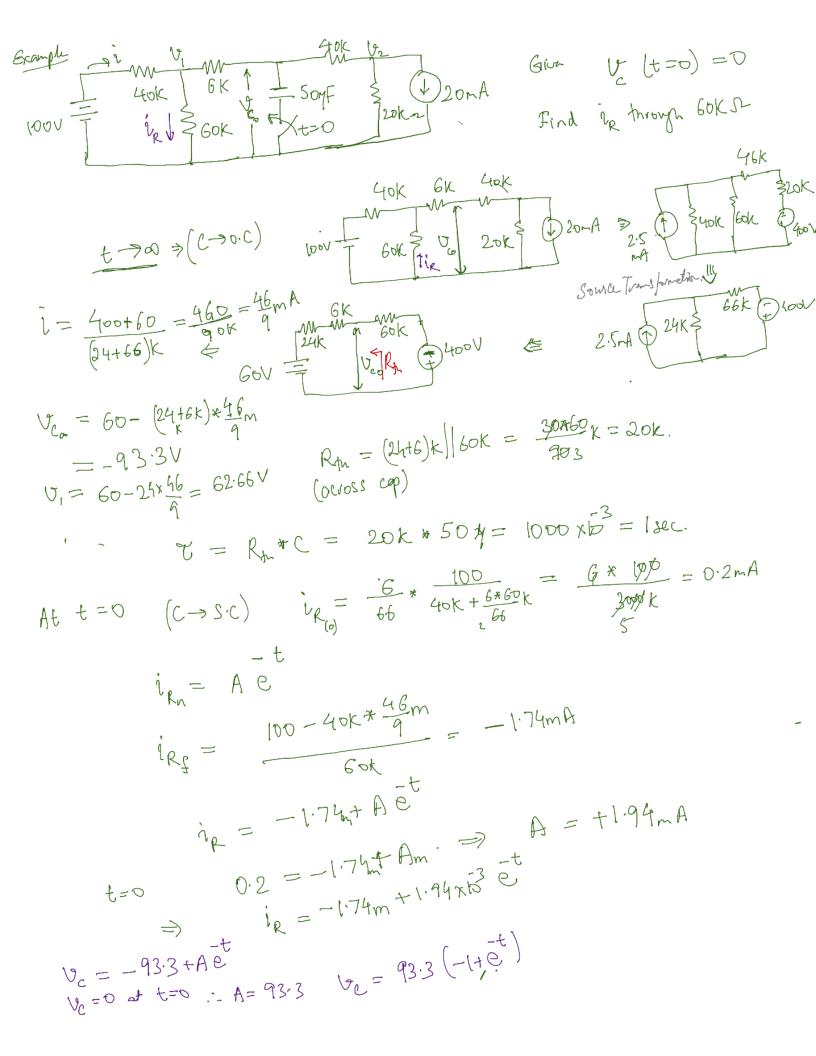
$$= \frac{90}{38.57} * 6 - \frac{45}{7} * \frac{30}{40}$$

$$= 2.00 - 0.5 = 1.5 A$$

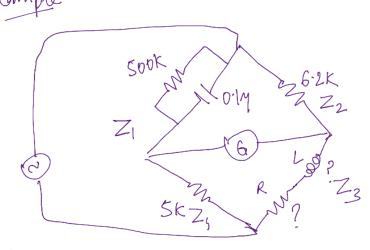
$$= \frac{90}{38.57} * \frac{6}{7} - \frac{45}{67.5} * \frac{3}{4} = 2.00 - 0.5 = 1.5$$

$$\dot{l}_{L} = 1.5 + Ae$$

$$i_{L} = 1.5 + Ae$$
 $i_{L} = 0$ 
 $i_{L} = 0$ 







The given wheat stone Bridge (Moxwells) is balanced.
Find values of L & R

Sol Balanud Broge.

$$\frac{Z_1 Z_3}{R_1 \frac{1}{100}} = Z_2 Z_4$$

$$\frac{R_1 \frac{1}{100}}{R_1 \frac{1}{100}} \left( R_3 + \frac{1}{100} \right) = R_2 * R_4$$

$$\frac{-R_1}{\omega C} = \left(\frac{-iR_1}{\omega R_1 C_1 - i}\right) \left(\frac{-iR_2}{\omega R_1 C_1 - i}\right) \left(\frac{-iR_3}{\omega R_2 C_1 - i}\right)$$

$$\frac{-R_1}{\omega C} = \left(\frac{-iR_1}{\omega C}\right) \left(\frac{-iR_2}{\omega R_2 C_1 - i}\right)$$

$$\Rightarrow -j R_1 R_3 + R_1 \omega L = R_2 R_4 \left( \omega R_1 C_1 - J \right)$$

$$= -\frac{1}{3}R_{1}R_{2}R_{1} + \frac{1}{3}R_{2}R_{1} + \frac{1}{3}R_{2}R_{1}$$

$$= -\frac{1}{3}R_{1}R_{2}R_{1}$$

$$= -\frac{1}{3}R_{2}R_{1}$$

$$= -\frac{1}{3}R_{2}R_{1}$$

$$= -\frac{1}{3}R_{2}R_{1}$$

Such Bridges are used for measuring value of R&L. by Keeping R, & R2 variable.

204F cap and parallel 200-52 draws 4A of GOHz. What are the W. VAR.

Sol bond are the volume.

Soll are the volume.

$$376.8 \text{ mad/s}$$

$$X_{c} = \frac{-i}{376.8 \times 201} = \frac{-j}{376.8 \times$$

Poux = 
$$S = I^2 + Z$$
  
 $C = 4^2 + 200 + (-j(32.7)) = -1$ 

$$S = 4 * \frac{200 * (-j132.7)}{200 - j182.7} = -1769.2 \frac{123}{123}$$

$$= +978.136 - j1474.206$$

$$W$$
VAR

$$Z_{L} = Z_{S}^{*}$$
 $Z_{L} = 3 - jS = 5.83 \angle 59^{\circ}$ 

$$\cos \phi = 0.8 \Rightarrow \phi = 36.87$$

$$\Rightarrow \sin \phi = 0.6$$

$$R = 5.8 \cos \phi = 4.64 \Omega$$

$$X_{L} = 5.88 \text{ sin} = 3.198 \text{ s}$$