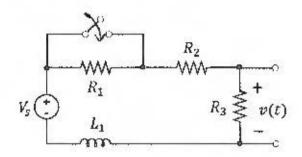
The switch closes at time t=0 and we measure

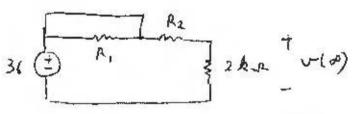
$$v(t) = 24 - 12e^{-t/2\mu s} V$$
 for  $t > 0$ 

Vs:36 V

R3: 2 kohm

Find the values of  $R_1$ ,  $R_2$ , and  $L_1$ .





(b)
$$R_{TH} = 3 \& R \qquad T = 2.10^{-6} \text{ A}$$

$$= R_{TH} \qquad \Rightarrow L_1 = T \cdot R_{TH} = 2.10^{-6} \cdot 3.10^{3} = 6.10^{-3}$$

$$\begin{array}{ccc}
 & \downarrow & \downarrow & \downarrow \\
 & \downarrow & \downarrow$$

$$C_L(o^-) = C_L(o^+) = 6 \cdot 10^{-3}$$

$$= \frac{36}{R_1 + 1 R + 2R}$$

$$R_1 = \frac{36}{6.16^{-3}} - i\lambda - 2\lambda \qquad R_1 = 32$$

$$R_1 = \frac{36}{6.16^{-3}} - i\lambda - 2\lambda \qquad R_2 = 32$$