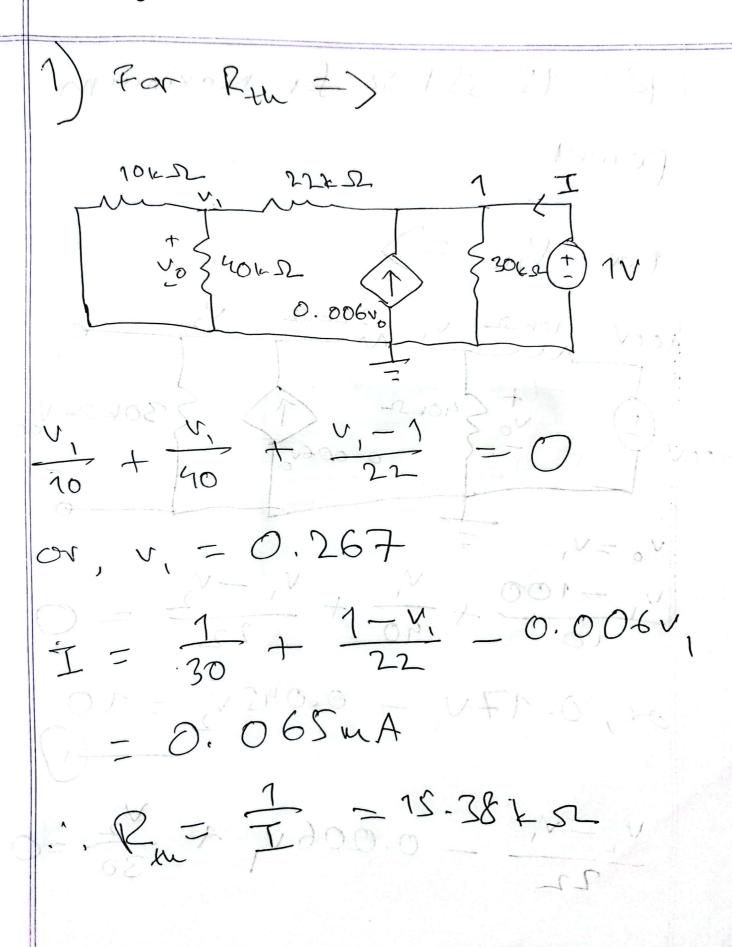
Assignment - 03



simple circuit shown L.

$$P = 15.38 \pm 52 \text{ for maximum}$$

$$Power$$

$$Por V_{tu} = \sum_{0.006V_{0}} V_{0} + \sum_{0.006V_{0$$

or, -0.051v, +0.0788v, U, = 70.99V, U, = 45.94V -. Voc = Vth = 1245.94V Vth Vth 34.31mW -- Pmax = 44Rth B1 THE BOLSE, Vab = 30+PH $\frac{10^{15}}{15} = \frac{10^{15}}{10^{15}} = \frac{1$

Pth
$$R_{L}$$
 Ab

Vab = R_{L} Ab

Vab = R_{L} Ab

Vab = R_{L} Ab
 R_{L}

$$\frac{\partial V}{\partial V}, \frac{10 + R_{th}}{30 + R_{th}} = \frac{2}{3}$$

$$\frac{10}{10430} \text{ Val} = \frac{2000}{20 \times 40} = 800$$

or, $\frac{10}{10} = 800$

$$V_{ab} = \frac{20}{20+30} \times 80 = 32V$$

3) For +20, PSA Z422 Z62 Va = 5 x, (2+2) = 12V Vb =08 200 x 30 = 24√ = Va - Vb = 21002V 9 AT (d) -- VOVE -- 12V 05 05 +00

Por
$$\pm > 0$$
 $0 \times \pm \sqrt{-1} = 0$
 $50 \times 200 \times 10^{-3} = 0$
 $0 \times \pm \sqrt{-30} = 0$
 $0 \times \sqrt{-30} = 0$
 $0 \times$

-1. 7 = PC = 10 x 1000 = 1s $(-124 + 12e^{-t}, t > 0$ 10ks 20LD f) + d = 9,000

For t <0, $v_s = 10V$ $--v_o = V_o = 6.67V$ For t >0, $v_s = 30V$,

-- vo = Vs = 20V

Ca Here, $f = 10 + (\frac{1}{20} + \frac{1}{40})$ $= 23.33 \times 52$

--7 = PC = 23.33 × 1000 × 3 × 10 6 = 0.06995

 $\frac{1}{20-13.332} = \begin{cases} 6.67 \text{ V}, \pm 40 \pm \frac{1}{0.0699} \\ 20-13.332 \pm \frac{1}{0.0699} \end{cases}$