1.
$$I_{x} = \frac{5}{2n} = -2.5A$$

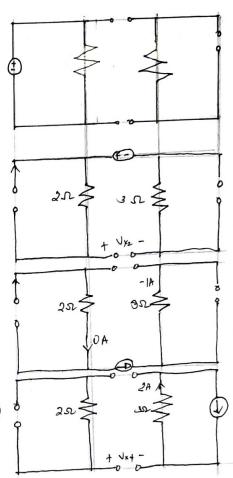
$$3n = 0$$

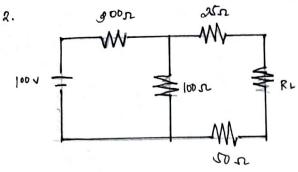
$$V_{X_1} = -(-5V) = 5V$$

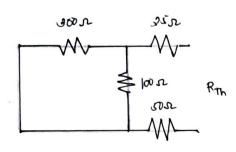
 $V_{X_1} = -(-5V) = 5V$

$$2n = 0$$
; $I_{X_2} = 0 - A$; $3n = 0$
 $KVL: -(3V) + V_2 n + V_{X_2} + V_{2}n = 0 - 0 \sqrt{y_2} = 3V$
 $2n = 0$
 $I_3 = 1A$
 $KVL = V_{X_3} + V_3 n = 0 - 0 \sqrt{y_3} + (-1A)(3n) = 0$
 $V_{X_3} = 3V$

$$2\Omega = D$$
 $1_{X4} = D4$
 $3\Omega = 2A$
 $1_{YL} : V_{X4} + V_{3D} = D + D - DV_{X4} + 2(A)(3D)$
 $0 + DV_{X4} = -4V$



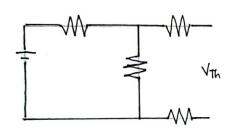




$$R_{th} = (100||300) + 25 + 50$$

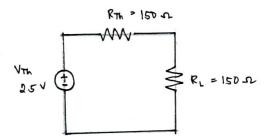
$$= (1/100 + 1/300)^{-1} + 25 + 50$$

$$R_{th} = 150 \cdot 52$$

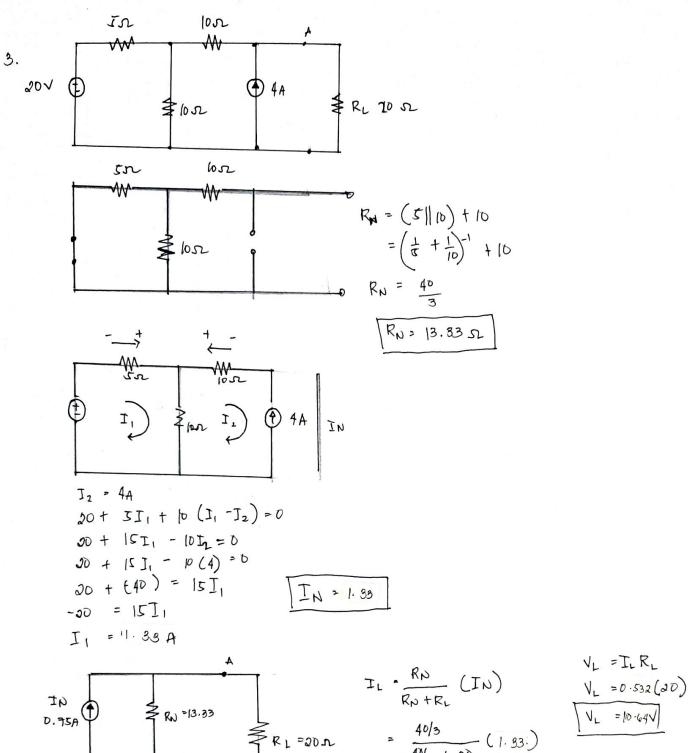


$$\frac{\left(\frac{100 \cdot V_{Th}}{3 t0} - \frac{V_{Th}}{1 t0} = 0\right) 300}{100 \cdot V_{Th} - 3 V_{Th} = 0}$$

$$\frac{-4V_{Th} = -100}{V_{Th} = 25 V}$$



$$P_{\text{max}} = \frac{V_{\text{Th}}^2}{4 R_{\text{Th}}}$$
$$= (85)^2$$
$$= (85)^2$$
$$= 85/24$$



IN
$$R_{N} = 13.33$$
 $R_{N} = 13.33$
 $R_{N} = 13.33$

