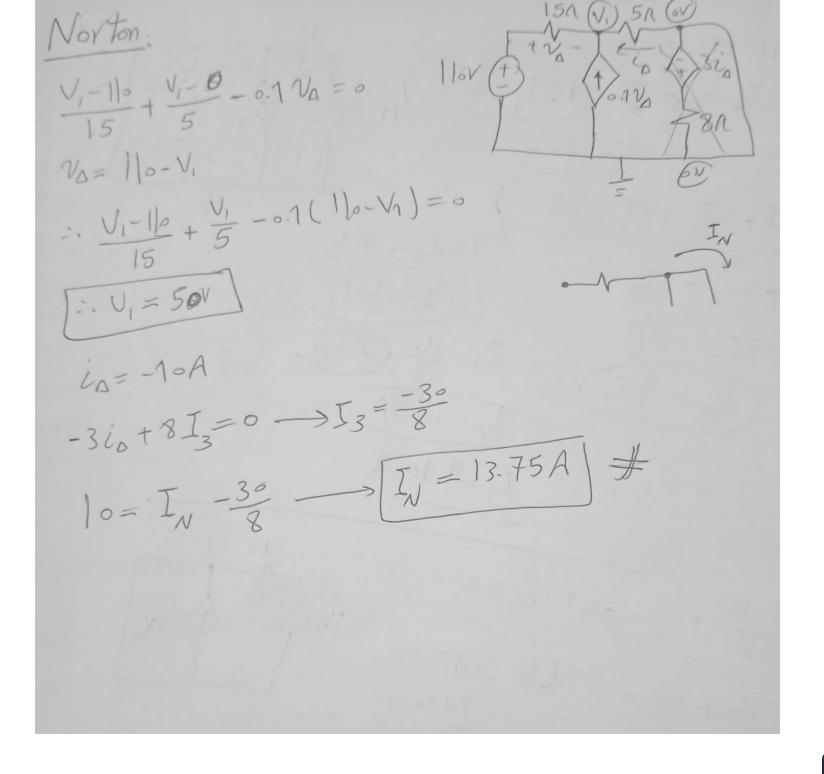


From the image Another Solution:  $\frac{-25}{100} + \frac{V_1 - V_2}{100} + \frac{V_1 - V_2}{100} = 0 \rightarrow \boxed{3V_1 - 2V_2 + 0} = 25$  $\frac{V_2-V_1}{100} + \frac{V_2-V_3}{100} = 0 \rightarrow (-\frac{V_1+2V_2-V_3}{2} = 0)$  $+\frac{\sqrt{3-0}}{100}+\frac{\sqrt{3-1/2}}{100}=0 \rightarrow \boxed{0-2\sqrt{2}+3\sqrt{3}=0}$ \\\3 = \frac{25}{3} \V V2=25 V



@TreVenin, Norton 110V C) TO TUS TO TRO E Ro=? O Max power Solution  $\frac{v_{1}-11_{0}}{15} + \frac{v_{1}-v_{2}}{5} - 0.7v_{0} = 0 \rightarrow 0$   $\frac{0}{15} + \frac{0}{15} + \frac{0}{15} + \frac{0}{15} = 0$   $\frac{v_{2}-v_{1}}{5} + \frac{v_{2}+3i_{0}}{5} = 0 \rightarrow 0$ (Full the second s  $\frac{v_2 - v_1}{5} + \frac{v_2 + 3i_0}{2} = 0 \rightarrow 2$ 10-12-110-4) -> Substitudin 120 2/ = 110 + 3 2/ - 3 2/2 - 15 \* 0.7 (110 - 2/1) = 0  $(5.5 V_1 - 3 V_2 = 110 + 1.5 * 110)$  (I)  $8V_2 - 8V_1 + V_2 + 3\left(\frac{V_2 - V_1}{5}\right) = 0$  $46V_2 - 46V_1 + 5V_2 + 3V_2 - 3V_1 = 0$ [48V2=434] I Saving Ell -> [: Vz= 55V] ( · V# 55 V) #



Solving equations we get

$$\frac{2}{P_{mox}} = \frac{V^2}{R} = \frac{(27-5)^2}{4} = \frac{189.0625W}{55V(5)}$$



[3] 
$$V_x = \alpha V_s \Rightarrow \alpha = \frac{V_y}{V_s} = \frac{1}{5} = [0.2]$$
 $V_y = \beta V_y \Rightarrow \beta = \frac{V_y}{V_s} = \frac{3.75}{5} = [0.75]$ 

(b)  $X = (1-\alpha) P_x = (1-0.2)^* 480 = [384]$ 
 $Y = (1-\beta) P_y = (1-0.75)^* 800 = [200]$ 

The touch occurred in the upper right Corner of the Screen