Ertugal KANTAR 05190000086 10 = V1+96-Vo (I) Solufal Node-I: V1-80+10+ V1-410=0 (II) 1)2io 2 = vo Node-II:-io-2io+ vo = 0 2 = 3io (III) 80 (Nz) 44, (1) 40i,= V,+96-Vo(I) 2V,-160+20io+V,-4Vo=3V1-4V0+20io-160=0 2010=4V0-3V1+160(II) 24010= Vo (III) (I) ve (II) olen -> V1-V0+96=8 V0-6 V1+320. $7V_1 - 9V_2 = 224(IV)$ (I) ve (III) den -> 6V1-6V0+576= Vo 6V1-7V0=-576(V) (IV) ve (V) den -> 424-5416=1344 → 42V1-49V0=-4032 -5 Vo=5376V Vo=-1075,2V (III) ten > io= Vo = -1075,2 = -4,48 A \$ \times 1075,2 \ V=1075,2 V = 1075,2 V buna gidigar, a se-beple pozitif. P = 9633,792 W (Gug Luketiyor)



Ertufrul KANTAR 05190000086 July 35in 10 V4-351= V3 (I) $V_{\Delta} = 20 - V_{2} \left(\prod \right)$ $i_{\overline{\Delta}} = \frac{V_{2}}{10} \left(\prod \right)$ $\frac{V_1}{20} + \frac{V_1 - 20}{2} + \frac{V_3 - V_2}{4} + \frac{V_3}{80} + 3,125 V_2 = 0 \text{ (IV)} \rightarrow \text{ super Node}$ $\frac{11V_1}{20} + \frac{21V_3}{80} - \frac{27V_2}{8} = -52,5(0) < 0$ Node 2: $\frac{\sqrt{2}-20}{1} + \frac{\sqrt{2}}{40} + \frac{\sqrt{2}-\sqrt{3}}{4} = O(V)$ $\frac{51V_2}{40} - \frac{V_3}{4} = 20 \text{ (b)}$ (I) ve (II) zen: V1 - 35 V2 - V3 = 0 (C) · (a), (b), (c) denklemleri Gözülürse $4 \rightarrow V_1 = -20,25V$ $V_2 = 10V$ $V_3 = -29V$ i3=30,125A $P_{\text{source}} = -(20.30, 125) = -602, 5 \text{ W}$ $+30,125 \longrightarrow \text{Kaynak } 602, 5 \text{ W } 809, 809 \text{ lar.}$