

Ertufnel KANTAR 0519000086 Vy . Alt. aizililer e sikkinola 160. kullonilacok 1 1 3 180 3 Ro = (7) 200V Voc igin ab aaik devre yapitir. 16 (11-12)+180 (11-13)+641+400=011) F -200+48i2+180(i2-i1)+32(i2-i3)=0(11) 6452 MEST 1/2=1/2-1/2 (III) 32(13-12)+16(13-14)+316(11-12)=0 CM 4 denklem Gözülürse... i=3A i=5A i=17.5A i=-2A Voc=180,-2=-360V isc iain finalist is=0 - (316 is) V devreden 41kor. 6411+16(i,-i3)+400=0 (I) 32(i2-i3)+48i2-200=0 (I)  $32(i_3-i_2)+16(i_3-i_1)=0$  (III)  $(I)(I)(II) ten -> i_1 = -5A i_2 = 2,5A i_3 = 0$ 1sc=11-12=-7,5A RTh=Ro=-360=4812 → 9 PMAX = (3,75).48=675 W 7,5 W 4852 480\$ Ro 31614 c-) Ro in ustunde -180 V var. ia = -1 A olur.  $\frac{V_{x}+400}{64} + \frac{V_{x}+180}{16} + \frac{V_{y}+200}{48} + \frac{V_{y}+180}{32} = O(I) \quad V_{y}-316 = V_{x}(I)$ (I) ve (II) den  $\rightarrow V_x = -336V$   $V_y = -20V$   $i_x = \frac{-336+400}{64} = |A|$   $i_y = \frac{-20+200}{48} = 3,75A$   $i_z = \frac{-20+180}{32} = 5A$ IW=iy+iz=8,75A

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$$P_{3161_A} = -316.8,75 = -2765 W$$
 $P_{400V} = -400 W$ 
 $P_{200V} = -200.3,75 = -750 W$ 
 $P_{0refilen} = -3915 W$ 
 $0 \rightarrow \frac{675}{3915} \cdot 100 = \frac{10017,2}{2017,2} c$ 

$$\begin{array}{c}
3 \quad 1(+) = 1(\infty) + [1(0^+) - 1(\infty)] e^{-\frac{1}{2}/4} \\
1_1(0^+) = 5 \text{ mA} (2k\Omega / 2k\Omega) \\
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1_1(\infty$$

Vo(+)=-60+90e-2000EV