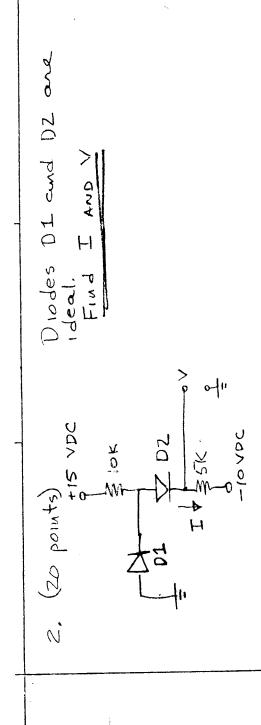
500 25500

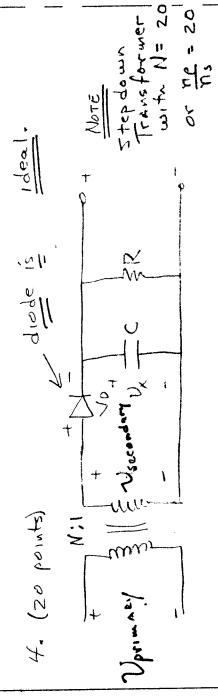


*

Supply Voltage Source. +20± 1 VACE Power * K1 = 10K 3 R= 10K The Zener exhibits 1/2= 9.4 volts at a test current 5 m A. Also (20 points) Vz = 12 ohus

ZENER in-circuit Tr, AND V#0 a,) Compute No Load (That is, No Re) at 20 VDC Compute V with Nominal voltage of 413 <u>a</u>

C.) The Power Supply voltage CAN VARY by II voit. What is the line requiation? the Load Japointions 70 (5) C+ R connected, d) Now with



74. 00 + DIOSONIS Peak promery = 100 volts は、10下点 001 =

- voltage? the ripple Value of de de Ñ a) what
- on the diode? アコン the what is
- diode? 老 the conduction Augle for Ū

diode current, Average 11.0

the maximum disde current?

Given the dide operating characteristic in the

a.) Develope a piece wise (incommodel. (Battery pius resistor model)

c) The diode is placed in the following Circuit: 900