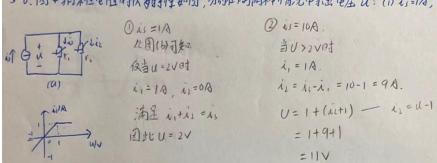
## (科目: ) 清华大学数学作业纸

编号:

H6 班级:

姓名:

## 5-6. 图中排垛性电阻的伏安好性如图,分别在下到两条中情况中抗出电压以:(1) is=1/A,(2) is=1/0A





## 假波=极管导通,则 1>0

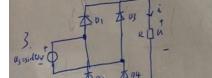


5-11, \$\frac{1}{40000}\$ + \$\frac{1}{40000}\$ + \$\frac{1}{2000}\$ \ \ \langle \frac{1}{40000}\$ + \$\frac{1}{2000}\$ \ \langle \frac{1}{2000}\$ \ \langle \frac{1}{40000}\$ + \$\frac{1}{2000}\$ \ \langle \frac{1}{2000}\$ \ \langle \frac{1}{30000}\$ \ \langle \frac{1}{30000}\$ \ \langle \frac{1}{60000}\$ \ \langle \frac{1}{30000}\$ \ \langle \frac{1}{30000}\$ \ \langle \frac{1}{60000}\$ \ \langle \frac{1}{30000}\$ \ \langle \frac{1}{30000}\$ \ \langle \frac{1}{60000}\$ \ \langle \frac{1}{30000}\$ \ \langle \frac{1}{30000}\$ \ \langle \frac{1}{60000}\$ \ \langle \frac{1}{30000}\$ \ \langle \frac{1}{300000}\$ \ \langle \frac{1}{30000}\$ \ \langle \frac{1}{30000}\$

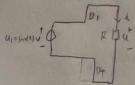
$$= \int U_{4} = 41.418V$$

$$= 40.435V$$

$$= \begin{cases} U_{4} = 41.418V \\ U_{b} = 40.435V \end{cases} I = \frac{V_{a} - U_{b}}{2000} = 0.52 \text{ mA} > 0$$



- (1) 应该分析几种可能状态] 2×2×2×2=16米中
- (2)上述状态中,电流,的引力是怎样的? i # 0 时, 电流3向向下
- (3) 0,~1),显线样的状态时能复现的中电流的?



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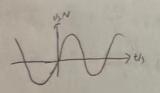
班级:

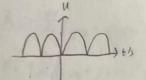
姓名:

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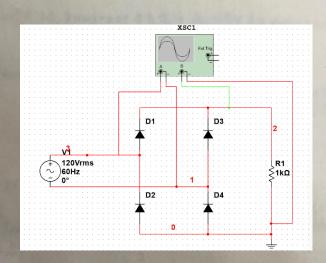
(4)机排(1)~(3), 面出以外。

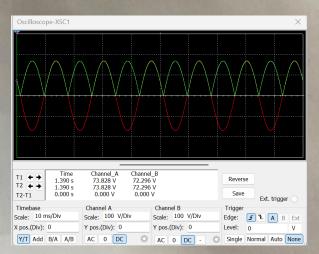




Us>0 u=us Us40 u=)us|

(5)





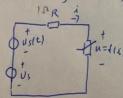
## 清华大学数学作业纸 (科目:

4. 以=2i+i3,求i=1A知2A处的新港里阻和动态制图

$$0i=10 R_1 = \frac{u}{1} = \frac{2+1}{1} = 3D R_2 = \frac{du}{di}|_{i=10} = 2+3x_1 = 5D$$

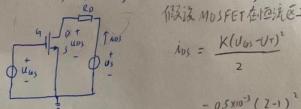
$$\text{Di=2A R'} = \frac{u}{i} = \frac{2x^2 + 2^3}{2} = 6 \Omega R'_2 = \frac{du}{di}|_{i=2A} = 2 + 3x 2^2 = 14 \Omega$$

5. U=ifzi,Us=10V,R=1九,当us(t)=0时,电流为2A.用引作法法本当us(t)=6.1sin/03tviotion电流i



$$\frac{1}{2\pi} = \frac{1}{2\pi} = \frac{1}{2\pi}$$

6. Us=10V, UGs=2V, K=0.5mA/V, UT=1V, R,=10KA., 京 A, Ri, Ro
(段波 MOSFET在10流区工作



 $= 0.5 \times 10^{-3} (2-1)^{2}$ 

Ups = Us - ios Ro = 10 - 2.5 ×10 4 × 10000

35 5 DUIN = SUCH

=-K(Ubs-Ua)12,

=-05×10-3×(2-1)×1000

致灯纸

輔入电阻: ♂

新出电阻: 10k2

No Free Lunch:

满足Vas>U+国Vas>Uas-UT 精小电阻无影大,电路的获取客能强 但代價便是輸出电阻的值高达 10k几,电路的带截能力差