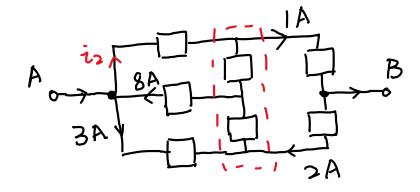
Rainyf





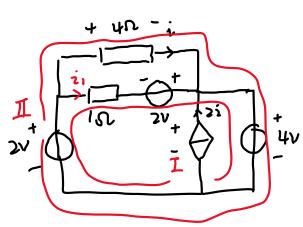
扩展的KCL: 流入 (或流出) 电路中任意孤立部分电流代数和为零

1.18

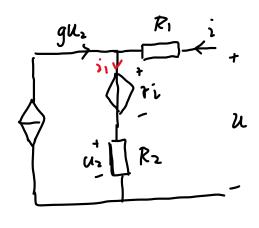
· P爱佐源.

$$\dot{z}_1 = 0$$

$$P = 4 \cdot 2i = -4w (u \cdot a \cdot r \cdot d)$$



1.19 (6)



$$\frac{i}{u_1} + i_1 = gu_1 + i$$

$$u_2 = i_1 \cdot R_2$$

$$i_1 = \frac{1}{1 - gR_2} i_2$$

$$u = iR_1 + ri + i_1R_2$$

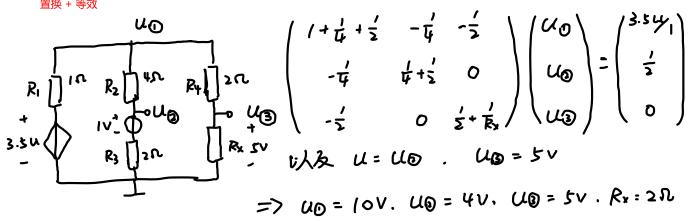
= $i(R_1 + r_+ + \frac{R_2}{1-gR_1})$

3.2

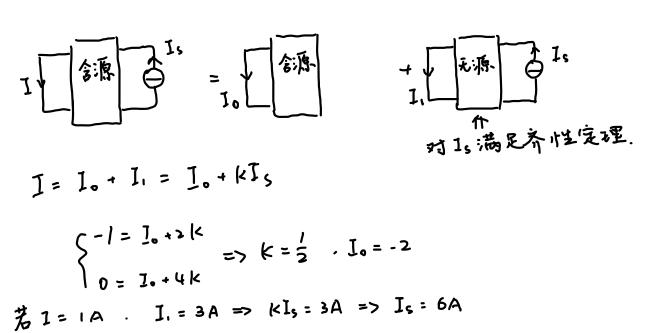
3.2

功率不可以直接叠加

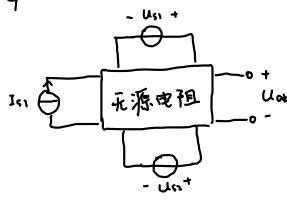
3.3



3.5



3.14



Ulab = k. Us. + k. Us. + k. Is.

Isi. Usi反向、Usi不变、Uob=0.5 Uob

量力: 2 Usz=> 1.5 Uab

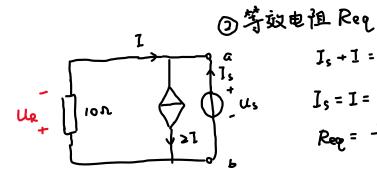
U(3 => 075 Clab

后程: Un => 0.65 Uab

Isi => 1-0.75-0.65 = -0.4 Ulab

Ici反向 (相当于成的个Ici) => Uob = [1-(·0.4)×2] Uob = 1.8 Uob

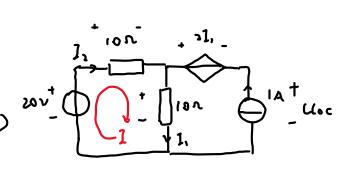
①开路电压 Uoc 今 a. b 开路 I=2I ⇒I=0 Usc = 8v.



rb >

I, +1 = 21 => I, = I $I_{s} = I = \frac{u_{s}}{R} = \frac{-u_{s}}{1}$ $Reg = \frac{u_{s}}{I_{s}} = -10 \text{ A}.$

1) Cloc: I2= 1,- (A 20-107=107、(回路I KVL) => 1.=1.5A Usc = (07. - 37, = 12 V



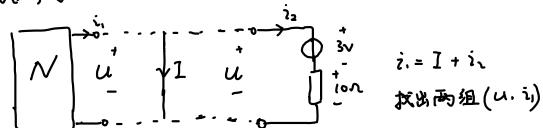
@ Req.

对科性:1,=575 11. + 27. - 107.

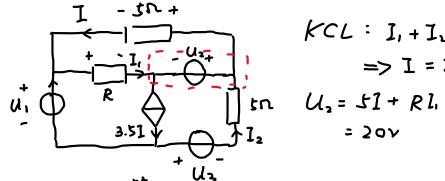
对科性: 1,=515

$$KVL:$$
 $US+27.=102,$

电路可等效为:



- ①开交断开时 U=13V· i=1A
- ②开美闭合时 U=0, i3=-0.3A, i,=3.6A



$$KCL: I_1 + I_2 = I + 3.5I$$

=> $I = >A$
 $U_2 = 51 + RI$

对电路除R部的Thevenin等效.

(1) Req:

$$I = \frac{u_s}{s} \quad l_s = s.s.$$

$$I = \frac{u_s}{s} \quad l_s = \frac{10}{11} \text{ Reg} = \frac{u_s}{I_s} = \frac{10}{11} \text{ Reg}$$

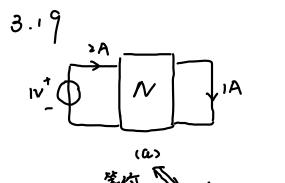
$$U_{0c} = I_{1}(Rep + R)$$

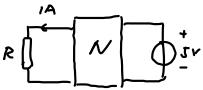
$$= fx \frac{32}{11} = \frac{160}{11}v$$

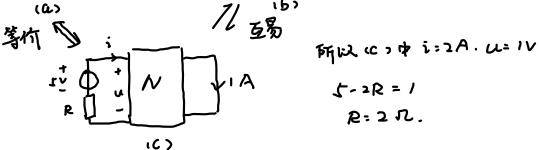
$$U_2 = 1/R' + 51 \Rightarrow I = \frac{44}{27}A$$

$$I_2 = I + 3.5I - I_1 = 4.5 \times \frac{44}{27} - \frac{80}{27} = \frac{118}{27} A$$

3.18 和课上的题一样
$$u_1\tilde{i}_1 + u_2\tilde{i}_2 = u_1\tilde{i}_1 + u$$







R: 2 N.