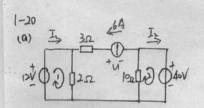
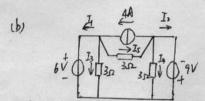


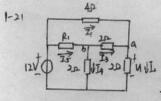
综上 Is=-7A Is=4A Is=1A Is=-3A Iq=-2A In=-1A In=-5A



KVL: 12V=(I+6A)·21 => I,=0 KVL: 40V=-1012×(6A+I)=> I,=-10A KVL: 12V+6A×311-U-40V=0=>U=-10V



KVL: $6V = 30 \cdot 1_3 \Rightarrow 1_3 = 24$ KVL: $-9V = 30 \cdot 1_4 \Rightarrow 1_4 = -34$ KVL: $6V + 9V = 1_3 \cdot 20 \Rightarrow 1_5 = 54$ KCL: $4A = 1_1 + 1_3 + 1_5 \Rightarrow 1_1 = -34$ KCL: $15 = 1_3 + 1_4 + 44 \Rightarrow 1_4 = 44$



KVL: 12V=41.-I+V ⇒ I=1.5A

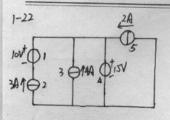
I= = 3A

I=

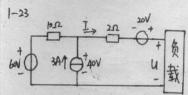
$$R_1 = \frac{12V - 2\Omega \cdot I_2 - 2\Omega \cdot I_2}{I_S} = 0.5\Omega$$

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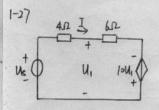
= Pop



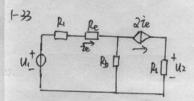
Pi=10V·3A=30W(发出) Pz=(J5V-10V)-3A=15W(发出) P3=15V·4A=60W(发出) P4=15V·C-2A-4A-3A)=-135W(发出) Ps=15V·2A=30W(发出)



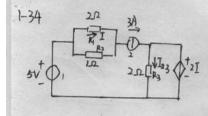
I = 3A + 60V-40V = 5A U = 40V+20V-212.] = 50V P=50VX5A=250W (吸收)



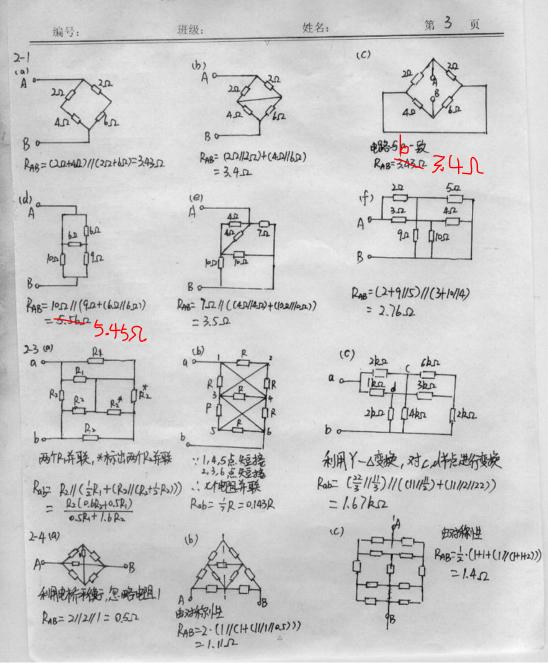
KVL: Us+10U,= I. (411+612) U1 = I-612 - 104, => Us = 50 1 = 4.56 12 Reg = 4.56.12



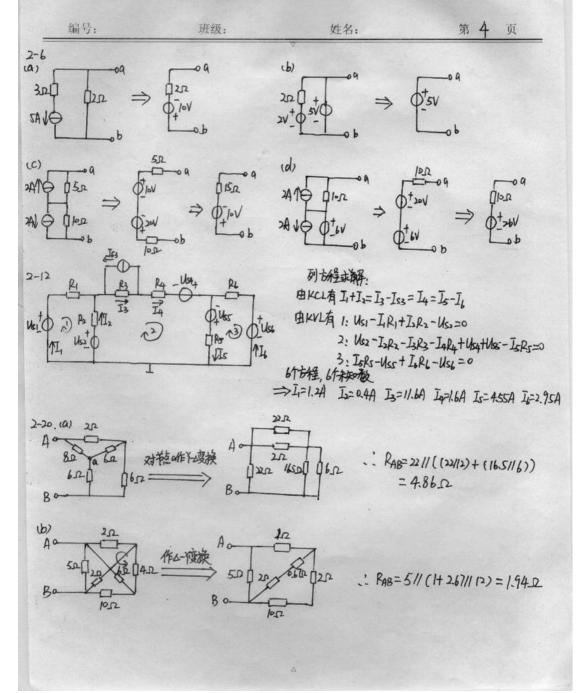
KVL: $U_1 = ie(R_1 + R_2) + (1-\lambda)ie \cdot R_3 \Rightarrow ie = \frac{U_1}{70}$ $U_2 = R_1 \cdot \lambda ie = 21U_1 \quad \therefore \frac{U_3}{U_1} = 21$ $\frac{P_1}{P_1} = \frac{U_2}{U_1} \cdot \frac{I_2}{I_2} = 21 \cdot \frac{2ie}{ie} = 20.58$



P1=5V·3A=15W(发出) I=3A La+12·122=1A P3= U3·CI2-3A)=-4W(发出) 功率净恒: PR,= I2R,= 2W(吸收) Pr=15W-3W-4W=8W=2W+4W+2W PA= (3A-I) Rz= 4W(吸收) $U_3 = 2I = 2V$ $I_2 = \frac{U_3}{R_3} = IA$ PB= I'R= 2W(晚收) P=(5V-U3-R·I)·(-3A)=-3W(姓)



(科目:)数学作业纸



编号:

姓名:

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