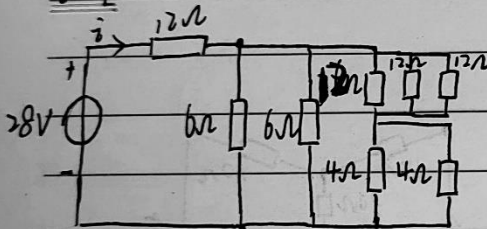


$$R_{eq} = 8\Omega + 12\Omega = 20\Omega$$

$$u = I R_{eq} = 40V$$

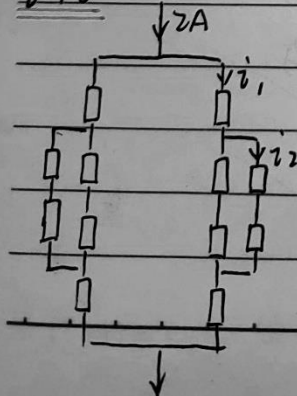
2-14



$$R_{eq} = 2\Omega + 12\Omega = 14\Omega$$

$$i = \frac{u}{R_{eq}} = 2A$$

2-16



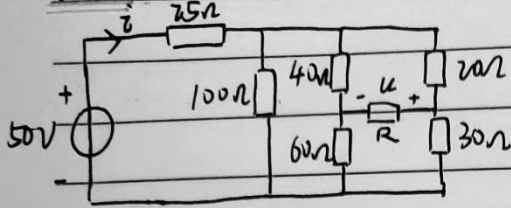
$$R_{eq} = 30\Omega$$

$$u = i R_{eq} = 60V$$

$$i_1 = \frac{1}{2} i = 1A$$

$$i_2 = \frac{1}{2} i_1 = 0.5A$$

2-20



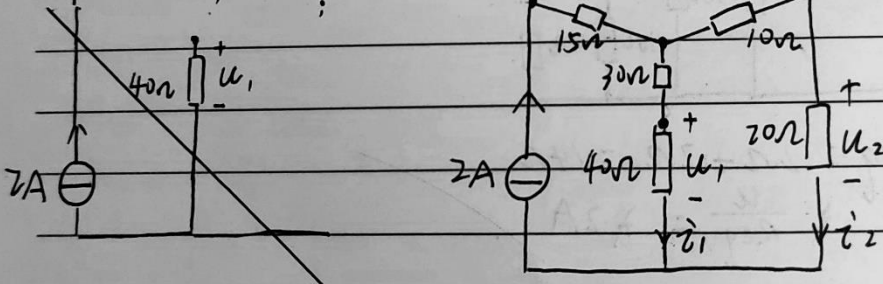
电桥平衡  $u = 0$

$$R_{eq} = 50\Omega$$

$$\dot{i} = 1A \quad \dot{i} = 1A$$

2-24

作  $\Delta \rightarrow Y$  的变换



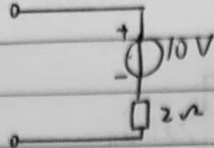
$$\dot{i}_1 = 2 \times \frac{30}{70+30} A = 0.6A$$

$$\dot{i}_2 = 2 \times \frac{70}{70+30} A = 1.4A$$

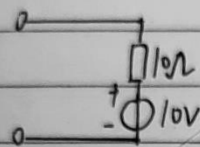
$$u_1 = \dot{i}_1 R_1 = 24V$$

$$u_2 = \dot{i}_2 R_2 = 28V$$

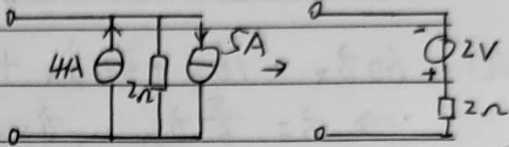
2-26 (a)



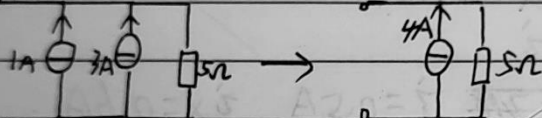
(b)



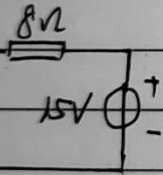
(c)



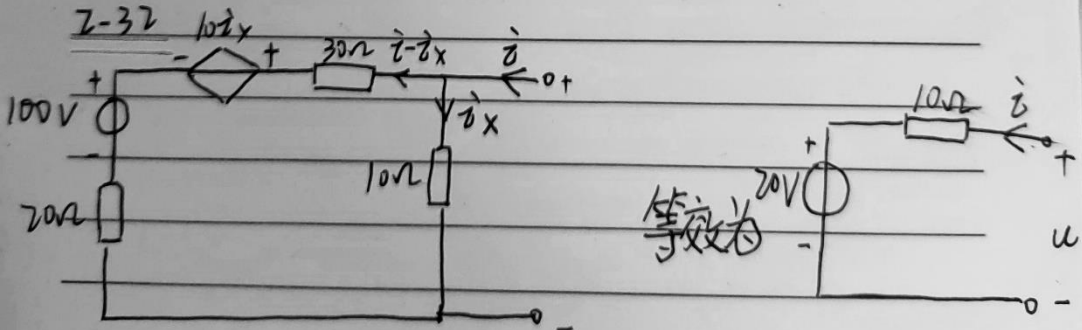
(d)



(e)



2-32

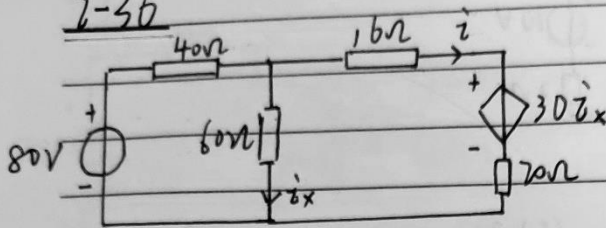


$$u = 10i_x = (30 + 20)(i - i_x) + 100 + 10i_x$$

$$\therefore i = i_x - 2$$

$$\therefore u = 10i_x = 10i + 20$$

2-36



$$\text{kVL: } 60i_x = 16i + 30i_x + 20i$$

$$\Rightarrow i = \frac{5}{6}i_x \quad i_x = \frac{6}{5}i$$

$$\text{kVL: } \uparrow 80 = 40(i_x + i) + 60i_x$$

$$= 100i_x + 40i$$

$$= 160i$$

$$\cancel{i = 0.7A} \quad i = 0.5A \quad i_x = 0.6A$$

A+