

问题 2.6

$$\textcircled{1} \begin{cases} -4V + 1V + V_1 = 0 \\ V_2 - V_1 - 2V = 0 \end{cases}$$

$$\begin{cases} V_1 = 3V \\ V_2 = 5V \end{cases}$$

$$i_1 = -3A$$

$$\cancel{1A - 4A = i_1}$$

$$\textcircled{2} V_3 - V = 0 \quad V = 5V$$

$$I_3 = i_1 + \frac{V}{1\Omega} \quad i_1 = 0A$$

问题 2.17

$$U = 200 + 100 \times \frac{40}{120 + 40} = 225V$$