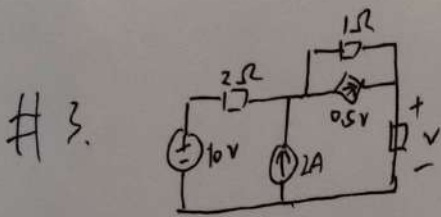


求 i

$$i = 24 / (12 + 8 + 4 + 3) = 1.9 \text{ A}$$



用叠加法求 V

$$10 - V_0 = 2V_0 - 2V + V$$

$$\begin{cases} -3V_0 + V = 10 \\ 4V_0 - 3V = 0 \end{cases}$$

$$4V_0 - 4V + 2V = V$$

$$4V_0 = 3V$$

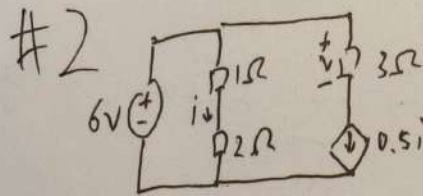
$$V = -4.8 \text{ V}$$

$$-2I_1 + I_2 + 4I_1 = 0$$

$$I_1 - I_0 = 2$$

$$I_1 - I_2 = 0.5 \text{ A}$$

$$V = 4 \text{ V}$$



(1) 求 i, V

(2) 电路中有何类型的源

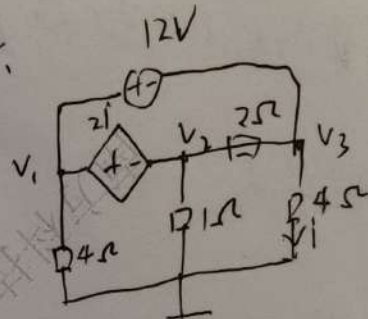
(3) 计算 dependent source absorbed 的功率

$$(1) i = \frac{6 - 0}{1 + 2} = 2 \text{ A}$$

(2) ...

(3) 3W

#4



用节点电压法求 V_1, V_2, V_3

$$V_1 = -18 \text{ V}$$

$$V_2 = -3 \text{ V}$$

$$V_3 = -30 \text{ V}$$

10-10

21

草稿纸

考试科目

任课教师

姓名

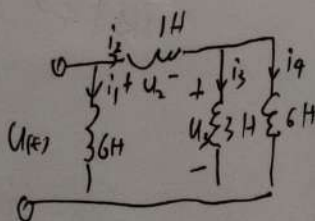
学号

求维南, 和 P_L 最大功率

$$I = \frac{u}{6} + \frac{4 \cdot u}{4} = \frac{1}{6} + \frac{2}{3} \cdot \frac{1}{4} u = \frac{1}{3} u$$

$$V_2 \frac{1}{3} u$$

6 ~~Q~~ #7

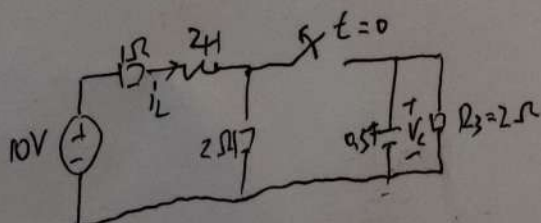


当 $t > 0$ $U_1(t) = e^{-\gamma t}$

$$(1) \frac{1}{2} j_1'(t) \sim j_4'(t)$$

(2) $f, u_2(t), u_3(t)$

#8



$$\frac{1}{R} i_L(t) \leq V_c(t) \text{ for } t \geq 0$$