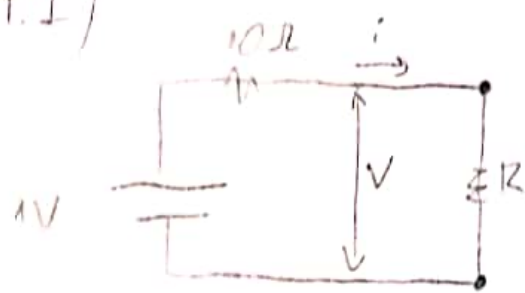


4.1)



$$i = \frac{1}{10 + R} \quad V = \frac{R}{R + 10} \quad R = \frac{10V}{1 - V}$$

- $V = 0 \rightarrow R = 0$
- $V = 0,2 \rightarrow R = 2,5\Omega$
- $V = 0,4 \rightarrow R = 6,7\Omega$
- $V = 0,6 \rightarrow R = 15\Omega$
- $V = 0,8 \rightarrow R = 40\Omega$
- $V = 1 \rightarrow R \rightarrow \infty$

4.2) Si $\rightarrow V = 1 - 10i$ ①
 $P/V > 0,6$
 $V = 0,6 + 2i$ ②

de ① e ② $\rightarrow V = 0,66V$
 $R = 20\Omega$

é possível verificar condicao

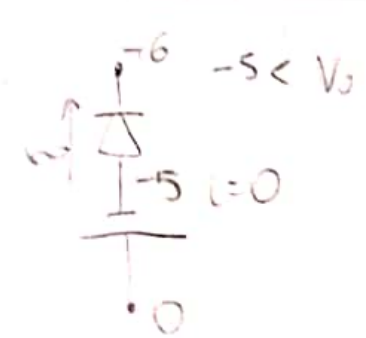
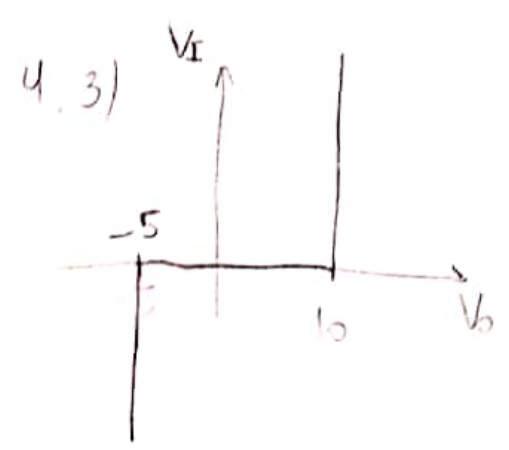
GeAs $\rightarrow V = 1 - 10i$ ①

$P/V > 1,4$
 $V = 1,4 + 4i$ ②

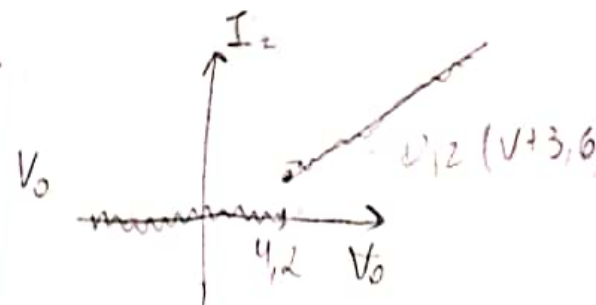
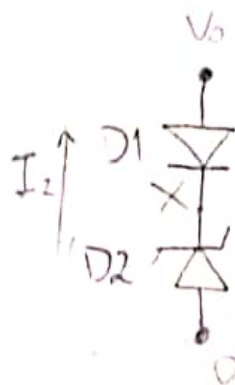
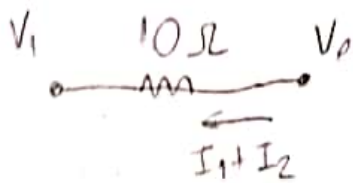
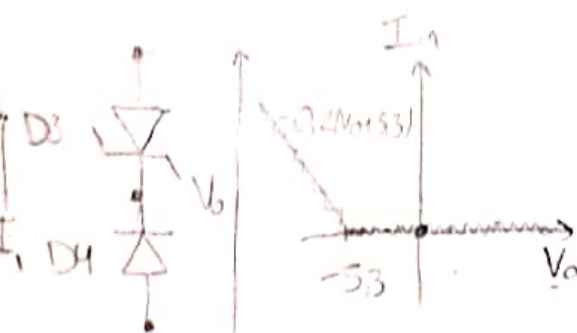
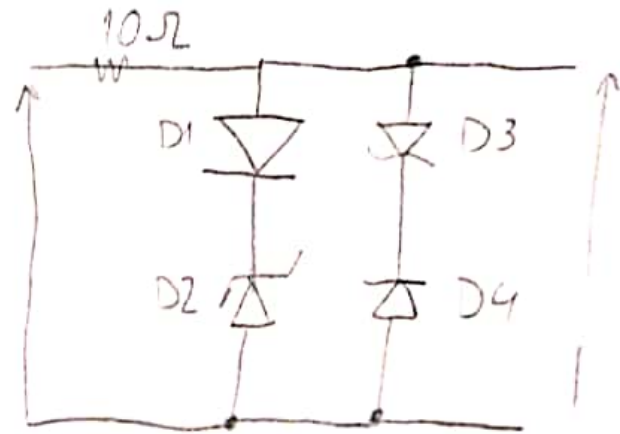
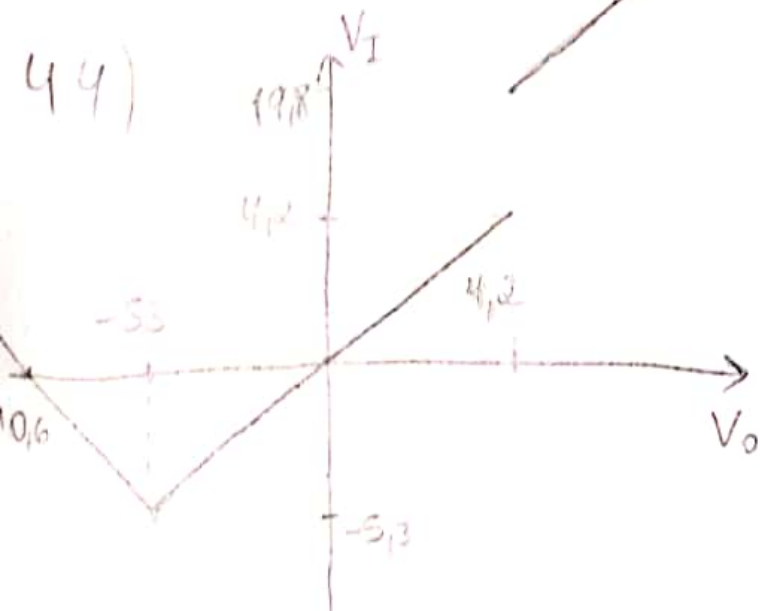
① e ② $\rightarrow V = 1,25 < 1,4$
 $P/V < 1,4 \quad i = 0$ ③

① e ③ $\rightarrow V = 1$
 $R \rightarrow \infty$

não é possível verificar condicao



44)



$$V_O < -5.3 : I_1 + I_2 = -0.2(V_O + 5.3)$$

$$V_I = V_O - 2V_O - 10.6 = -V_O - 10.6$$

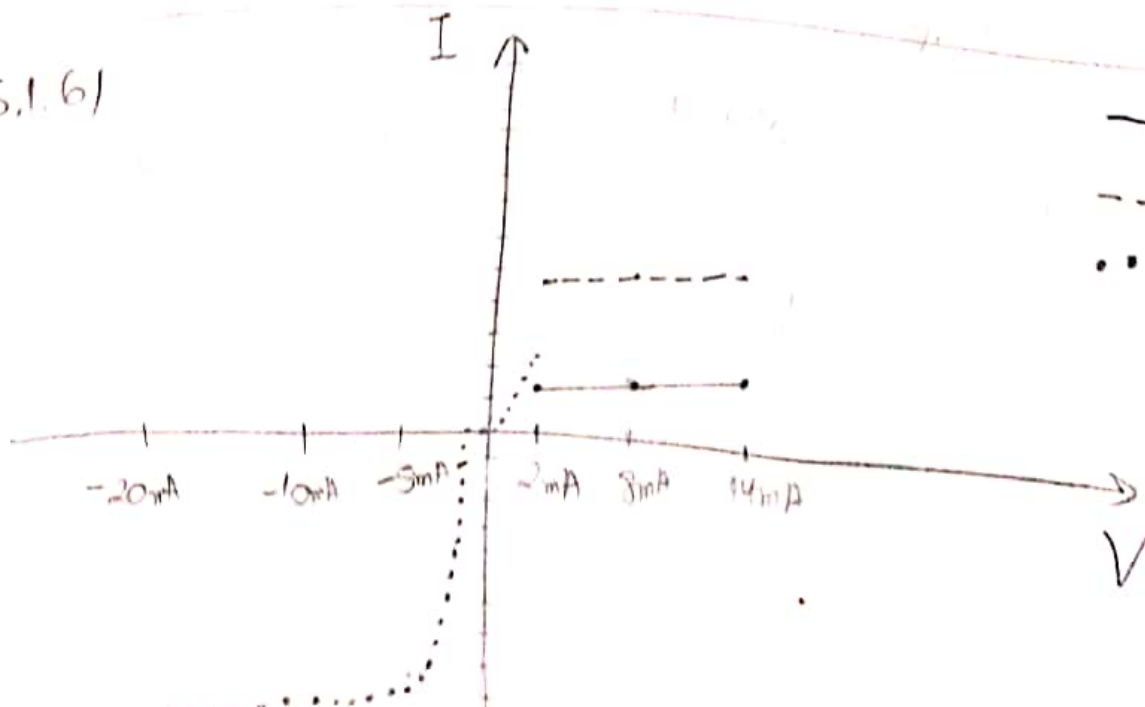
$$V_O > 4.2 : I_1 + I_2 = 0.2(V_O + 3.6)$$

$$V_I = V_O + 2V_O + 7.2 = 3V_O + 7.2$$

$$-5.3 < V_O < 4.2 : I_2 + I_3 = 0$$

$$V_I = V_O$$

S.1.61



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