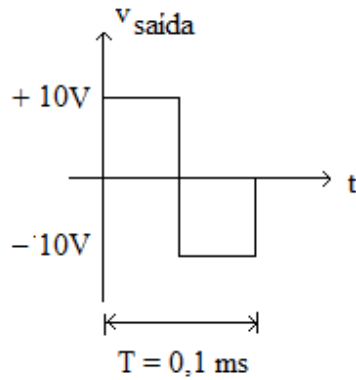


7ª Lista de Exercícios de Circuitos Eletrônicos – Computação – 1º Semestre de 2018 - Respostas

1- $f = 2 \text{ kHz}$

2- a) $C \approx 0,248 \mu\text{F}$

b)



3- a) $f = 1,46 \text{ kHz}$ b) $V_C = \pm 1,94 \text{ V}$ $V_{\text{zener}} = \pm 7 \text{ V}$

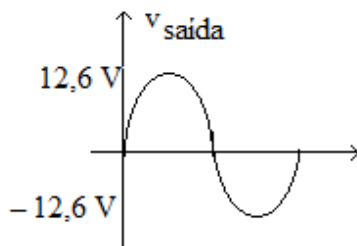
4- $R_1 \approx 1,164 R_2$

5- $5,6 \text{ Hz} \leq f \leq 287,5 \text{ Hz}$

6- $R_1 = 10\text{k}\Omega$ $R = 50\text{k}\Omega$

7- $3,98 \text{ k}\Omega \leq R \leq 39,8 \text{ k}\Omega$ $R (\text{potenciômetro}) = 35,82 \text{ k}\Omega$

8- $R_2 = 3 \text{ k}\Omega$ (obtido no gráfico) $R_1 = 6 \text{ k}\Omega$ $0,13 \text{ k}\Omega \leq R \leq 0,68 \text{ k}\Omega$



9- $f = 18,1 \text{ kHz}$ $v_{\text{saída}} = 4,5 \text{ V}$

10- a) $v_{\text{saída}} = 5,4 \text{ V rms}$ $1,45 \text{ kHz} \leq f \leq 15,9 \text{ kHz}$

11- $RC \approx 7,96 \mu\text{s}$