LAD SAPTAMAHA 2 - CA CIRCUITE LIHIARE - RC touce-jos

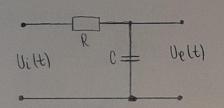
1 500 PUL LUCRARII

sossest lucrării uste de la studia experimental treasca ammailler de diferile forme prin circuitele RC-trece jes

2. COHSIDERATII TEORETICE

Circuitele de sip RC, LC pi RLC sunt circuite limieire. Le asumeor initeration in lunder of invaluation in almost orewithout in almost orewithout in almost orewithout abiorumia ella menimentale regiona dissorrariani pe cama alla rimuraida le au, la imire, tor e formà sinusoidalà

2.1 CIRCUITE RC-TRECE JOS

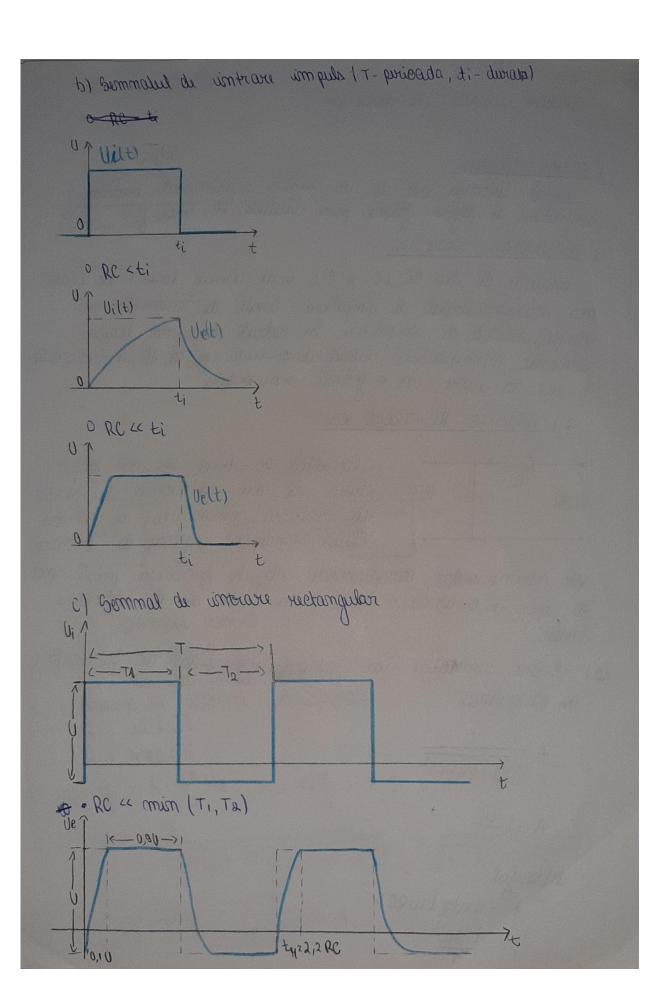


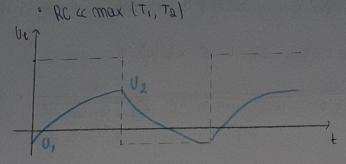
Circuitul RC - trece jos are proprie-Vilt) (= Velt) taba ca are atemberea an function de fromma sommabili de improve Dará semmalul vaplicat la imprare

esse misimusoidal, componentele sale de francostra joasa apar la issire as o atmuse mai misa duait als di fretoenta malla

g opnocost es labiereminic escentia et lulo meno mento (a · es atimuerses :

A z Ue Vi defaxajul: Vz - Orolg (WRC)



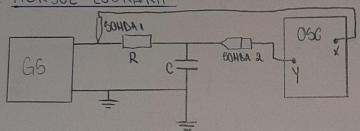


Penthu
$$T_1 = T_2 = \frac{1}{2}T$$

$$U_1 = -\frac{U}{2} * \frac{1-e^{-x}}{1+e^{-x}}$$

$$U_2 = \frac{U}{2} * \frac{1-e^{-x}}{1+e^{-x}}$$

3. HEROUL LUCRARII



GG - generater semmal

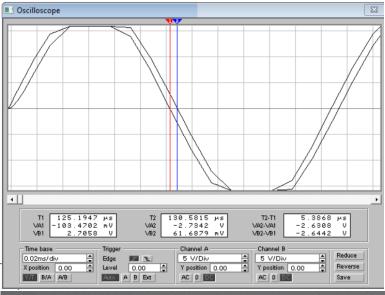
9000 - unilona

3.1.1 Semmal de vintrare sinusoidal

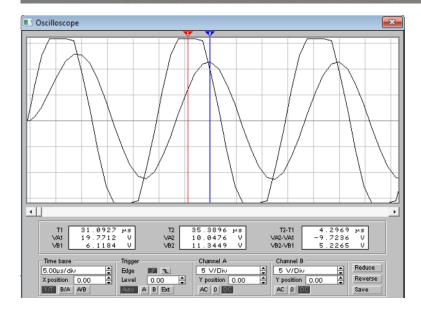
R = 12 & Z

C = 440 P7

A. (a) g1 2 4.103 Hz, w1= 2Tig1 = 2.TT. 4.103 = 8.103 TT



b)
$$\int_{0}^{2} z \cdot 4 \cdot 10^{4} \text{ FBz} z \cdot 40 \text{ kHz}$$
 $W_{2} = 8 \cdot 10^{4} \text{ T}$
 $A_{2} = \frac{1}{\sqrt{11 + (W_{2}Re)^{2}}} z \cdot \frac{1}{\sqrt{11 + (O_{1}4512\pi)^{2}}} = \frac{1}{\sqrt{13}} \approx 0.58$
 $X = \frac{1}{\sqrt{12}} = \frac{1}{\sqrt{13}} \approx \frac{1}{\sqrt{13}} \approx \frac{1}{\sqrt{13}} \approx \frac{1}{\sqrt{13}} \approx 0.58$
 $X = \frac{1}{\sqrt{12}} = \frac{1}{\sqrt{13}} \approx \frac{1$

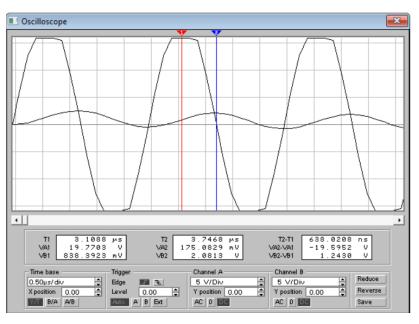


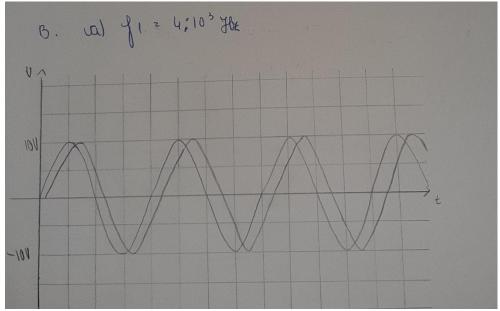
c)
$$\int_{3}^{3} z \cdot 4 \cdot 10^{5} \, \text{Hb}_{\pm}^{2} z \cdot 400 \, \text{kHb}_{\pm}^{2}$$

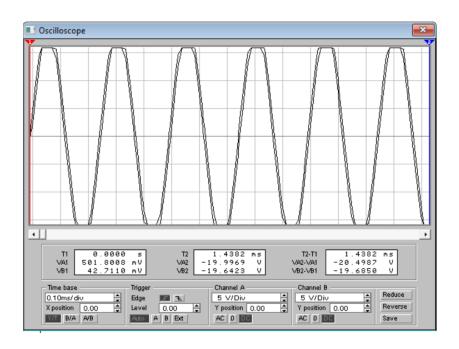
$$W_{3} z \cdot 2 \cdot 10^{5} \, \text{Ti}$$

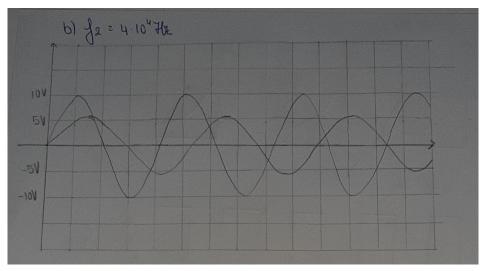
$$A_{3} z = \frac{1}{(1 + (W_{3}Re)^{3})^{2}} = \frac{1}{(1 + 200)^{2}} z \cdot \frac{1}{14,18} = 0,04$$

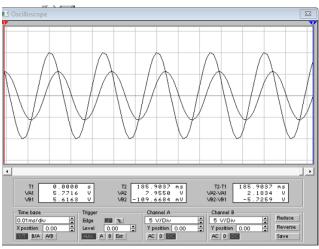
$$\int_{3}^{3} z \cdot \frac{1}{13 \cdot 360^{2}} z \cdot \frac{650 \, \text{mn} \cdot 360^{3}}{2,5 \, \text{Mo}} \approx 93,6^{\circ}$$

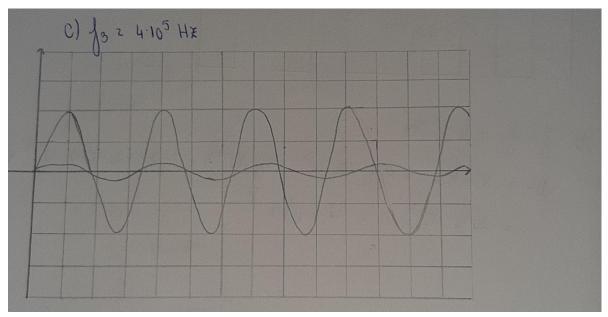


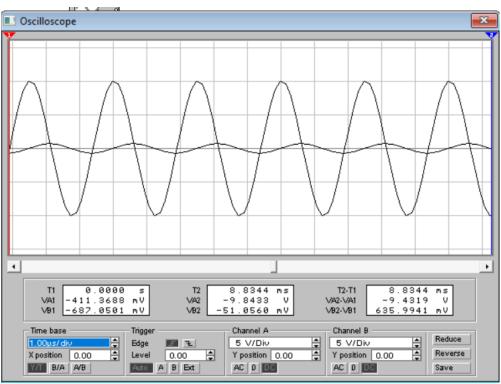


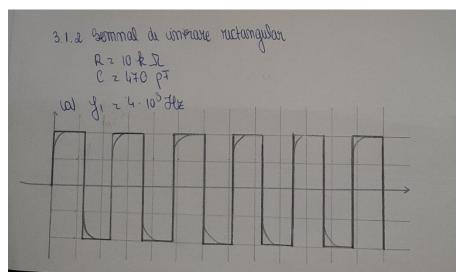


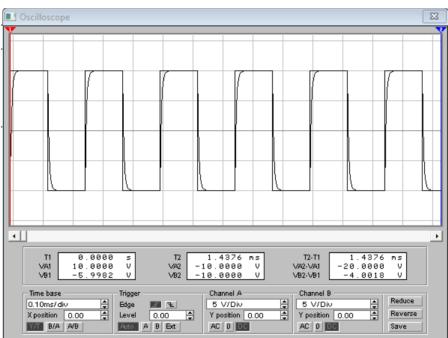


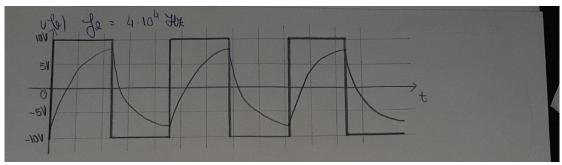


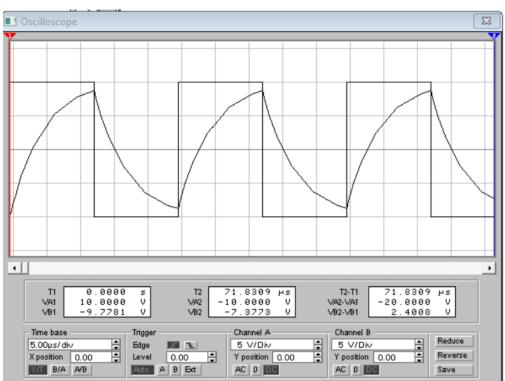


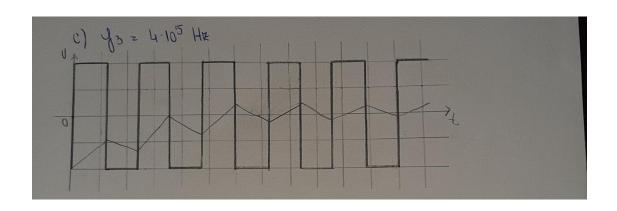


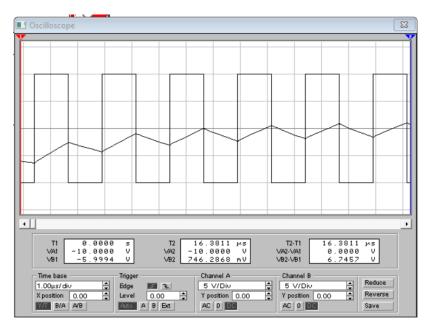












D. J= g1 2 4.10370x th z 2,2 RC 2 2,2.10.103. 440.10-12 = 2,2.10.440.10-3.10-6= = 10,34.10-6 n = 10,34 040

