Belace That Lucrores 2 Coracte Conacl RC trace - very Meisel luciani Tempol de jatrone vinusoidal R = 12 k 1 BA C-4+0 NF a) fr = 4.100 Mz Creloscop (simulare) T=5 div c,5 \( = 2,5 \text{ \ ALU T -- 0,05 cliv -0,5 4 5 = 9 02 541 1 = + 360 = 0,025,300 = 3,6° scoretic W-27A-27-4-105H2=81. 105H2 A TWOCK 1 8 7 105 . 12 103. 470 . 10 12 - 1

1- arty ( Tec) - arety ( 1 seliea vlad = enety (0,07) ~ 4° b) f2 = 4. 104 Me Crilosop ( vimulare) 1=5 din 5 pm = 25 pm s Win = 2,7 din 2V = 5V / 3 A = Ue = 3 = 0,8 Jew = 2 din 2V = 4V / 3 A = 0,8 t - 0,6 din 5 /15=3 /15 1 = 1.360 = 3.369 - 43,2° Jeoretin w=27/= 8/1.10 4 Hz A = 1 / 1 / 1 / (451201 10-5)2 - 1 - 1 - 1 - 0,817 1 + 1 - 1 - 1 - 1 - 1 - 0,817 1 - arety ( wec) = arety ( 11412) -= arety (0,708) - 35,3°

Believe Flord e 13-4.103 Mz Briloscop (smulare) T=5 div. 0,05 ms=0,25 ms=250/15

U(w=2,5 div. 2V=5V) => A= Ue= 1,2=0,24

Uew=0,6 div-2V=1,2V) => A= 0,5 t= 1, 1 div. 0, 0, ms = 0, 05 Jms = 5 5 /4 ) 1= +360 = 55.369 = 79,2° Teoretia W= 27 p= 81. 10 Nt A= \frac{1}{\text{V1+} \frac{1}{\text{WRC|}^2}} = \frac{1}{\text{V1+} \frac{1}{\text{V5120T1c-6}}^2}  $\frac{1}{\sqrt{1+\frac{1}{0.02}}} = \frac{1}{\sqrt{51}} = \frac{1}{2,141} =$ [= arty ( wec) = arty ( orstog) = arty (7,05) = 21,97

School Vlad de Ore logramele tenniumilor de intrave l'i s'ele ies ine le 1. p= 4. 105 M2 2. |2 = 4.104 HZ 3 /3 = 4.10 Hz

Ochea Vlad Fernal de intrace rectangular a) 1 = 4. 105 Hz  $T = 5 \text{ div} \cdot 0.5 \text{ us} = 2.5 \text{ us}$   $T_1 = T_2 = \frac{7}{2} = \frac{2.5}{2} = 1.25 \text{ us}$   $X = \frac{7}{2RC} = \frac{2.5 \cdot 10^{-6}}{2 \cdot 12 \cdot 10^{3} \cdot 470 \cdot 10^{-12}}$ = 2,5 1/23 1c = 0,22 U1 = 5 = 5 = 5,2 = 27 V -> U 2 = -U1 => U2 = -25-V  $(1)^{2} = \frac{1}{1+2^{2}} = \frac{5}{1+2} = \frac{5}{1+1,24} = \frac{5}{2,24} = \frac{7}{2,24} = \frac{$ ~ Uz =- U, = J Uz -- 2,23 V b) /2 = 4 104 Hz T=5 liv.545=25 45  $7_{1} = \overline{1}_{2} = \overline{2} = 25 \mu s = 12, 5 \mu s$   $X = \frac{1}{2RC} = \frac{25 \cdot 10^{-6}}{1128} = \frac{25}{1128} \cdot 10^{2} \approx 2, 2$  $U_1 = \frac{0}{1 - e^{-x}} = \frac{5}{1 - e^{-2}, 2} = \frac{5}{1 - 911} = \frac{5}{0.85} = 5,62$ = 5 U2 = - 5,62 V  $01 = \frac{0}{1+e^{x}} = \frac{5}{1+e^{2x^{2}}} = \frac{5}{1+9} = \frac{5}{10} = 0.15$ => U2 -- 0,5 V.

Ochen Ve <) 15- 4-10° Mz T- 5 du 50 ps= 250ps X = I = 250-10-6 = 25000 = 22,16 = 1 U2 = -5 V Up = 1-ex = 5 14 e22,10 = 9/3 U2 = 0V b) | = |3 = 4.103 Uz timpel de coborare te = 13,332 (din simular) [condin: t=2,2 RC=2,2.12.103.470.10] - 1240,8 => t= 12,408 Ms

Crilograperea remnaleloz de intrare quiesne a) ]1 = 4 105 Hz b) /2 = 4.104 Hz () /3 = 4. 103 Hz











