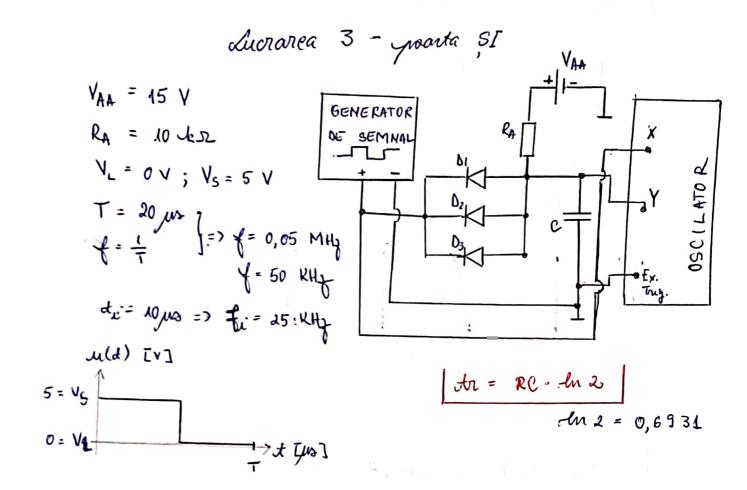
Negwrita Diana - Gabriela grupa 4.2.

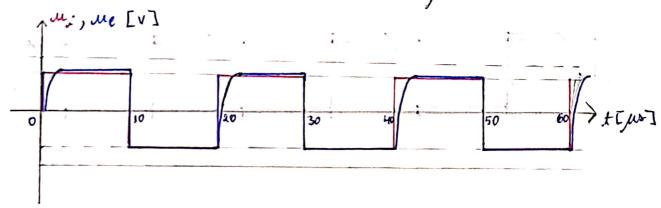


I. 
$$V_{AA} = 15 \text{ V}$$
,  $C = 100 \text{ pF}$ 

$$RC = 10 \cdot 10^3, 100 \cdot 10^{-12} = 10^{-6} \text{ a} = 1 \text{ ms}$$

$$t_n = 1 \text{ ms} \cdot 0.6931 = 0.6931 \text{ ms}$$

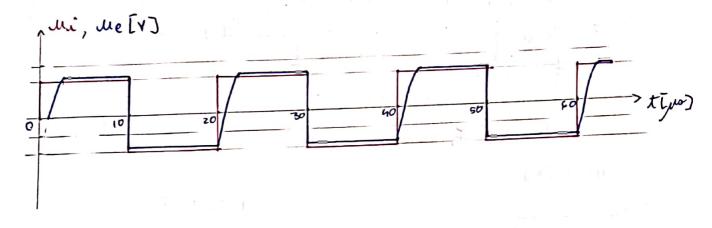
valoare mămrată: tn = 681,818 w
 tn = 0,6818 po



Negurita Diana - Gabriela

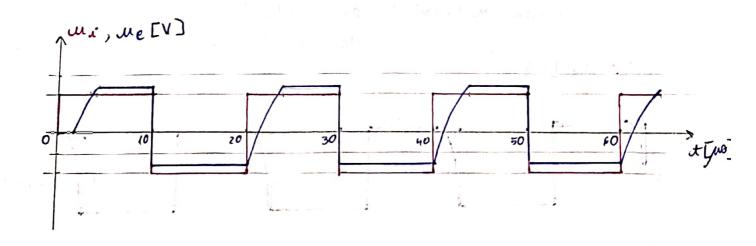
II. 
$$V_{AA} = 15 \text{ V}$$
,  $C = 220 \text{ pF}$ 
 $RC = 10 \cdot 10^3 \cdot 220 \cdot 10^{-12} = 22 \cdot 10^{-4} = 2,2 \text{ ms}$ 
 $t_n = 2,2 \cdot 0,6931 = 1,5248 \text{ ms}$ 

• valence másuratá:  $t_n = 1,136 \text{ ms}$ 



III. 
$$V_{AA} = 15 \text{ V}$$
,  $C = 440 \text{ pF}$ 
 $RC = 10 \cdot 10^3 \cdot 440 \cdot 40^{-12} = 44 \cdot 10^{-4} \text{ s} = 4.4 \text{ ms}$ 
 $d_n = 4.4 \cdot 0,6931 = 3,2546 \text{ ms}$ 

• valoare marmata :  $d_n = 2,121 \text{ ms}$ 

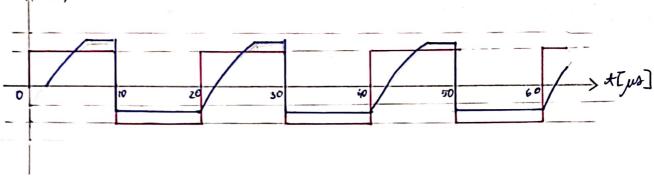


# Wegurita Diana - Gabriela

$$RC = 10 \cdot 10^{3} \cdot 10^{-9} = 10^{-6} \text{ A} = 10 \text{ pm}$$
  
 $t_R = 10 \cdot 0,6931 = 6,931 \text{ pm}$ 

· valoare manurala : tn = 5,152 pos

mi, me [v]



RC = 
$$10 \cdot 10^3 \cdot 1.5 \cdot 10^{-9} = 1.5 \cdot 10^{-5} = 15 \mu s$$
  
 $t_n = 15 \cdot 0.6931 = 10.3965 \mu s$ 

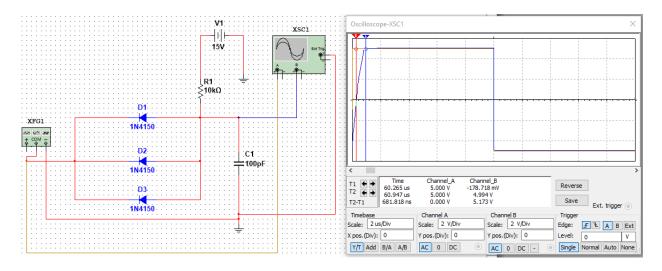
· valoure mammata:  $t_n = 4.5 \, \mu s$ 

0 20 30 10 50 60 > +Tuo]

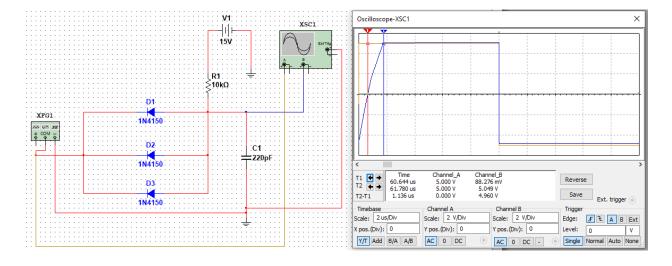
# Măsurări în Multisim – 50 kHz

## Pentru $V_{AA} = 15 \text{ V si}$ :

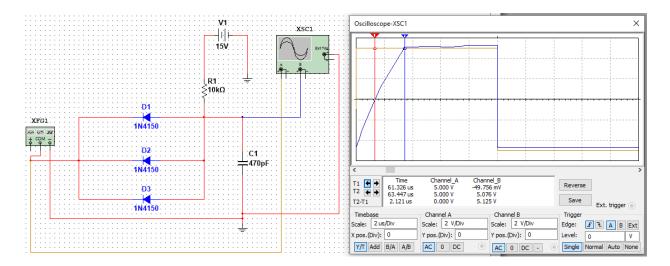
• C = 100pF



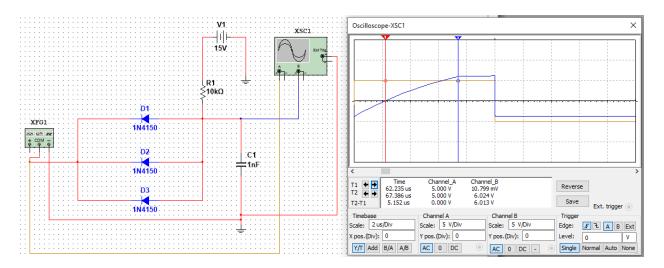
• C = 220 pF



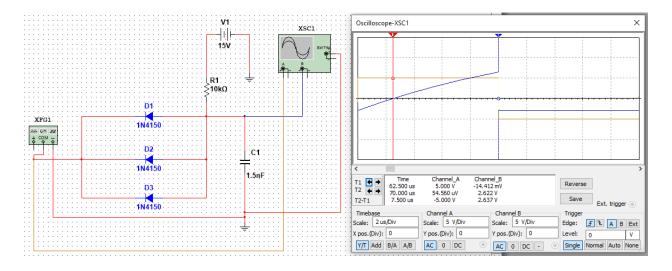
• C = 470 pF



• C = 1 nF

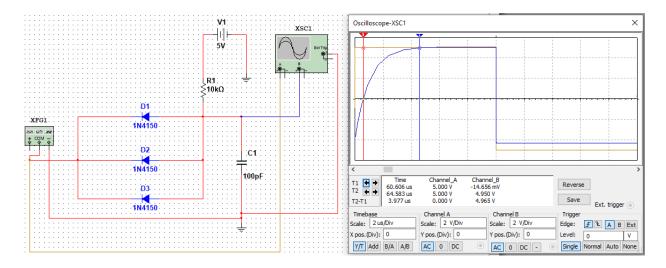


• C = 1.5 nF

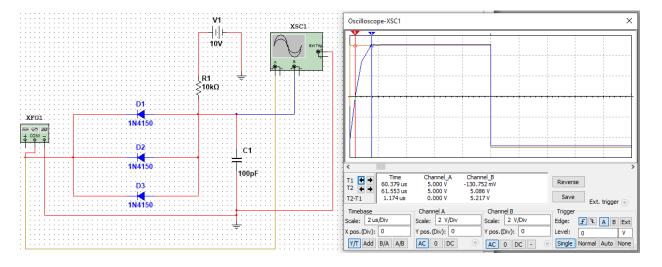


#### Pentru C = 100 pF si:

# • $V_{AA} = 5 V$



#### • $V_{AA} = 10 \text{ V}$



## • $V_{AA} = 20 \text{ V}$

