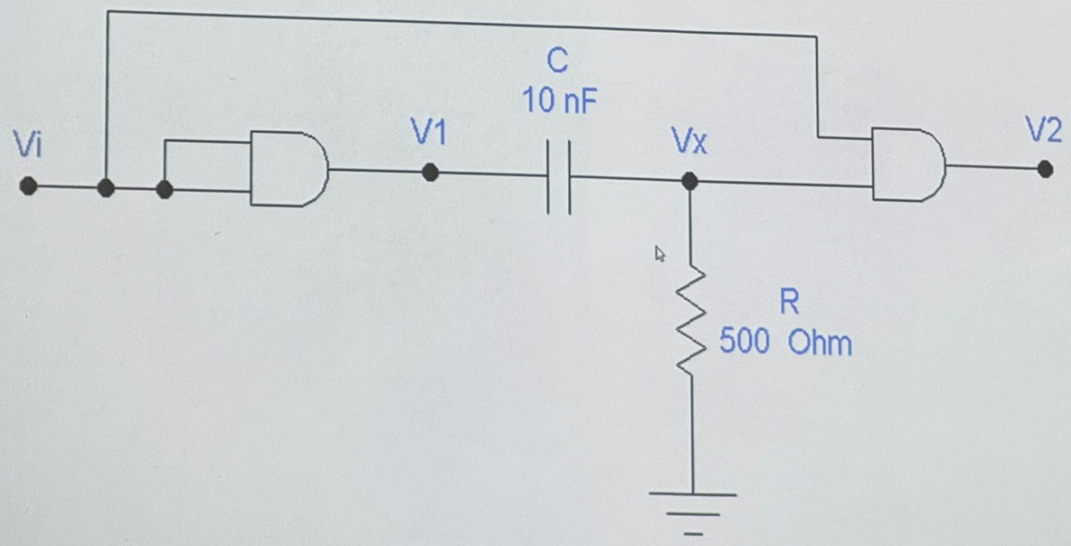
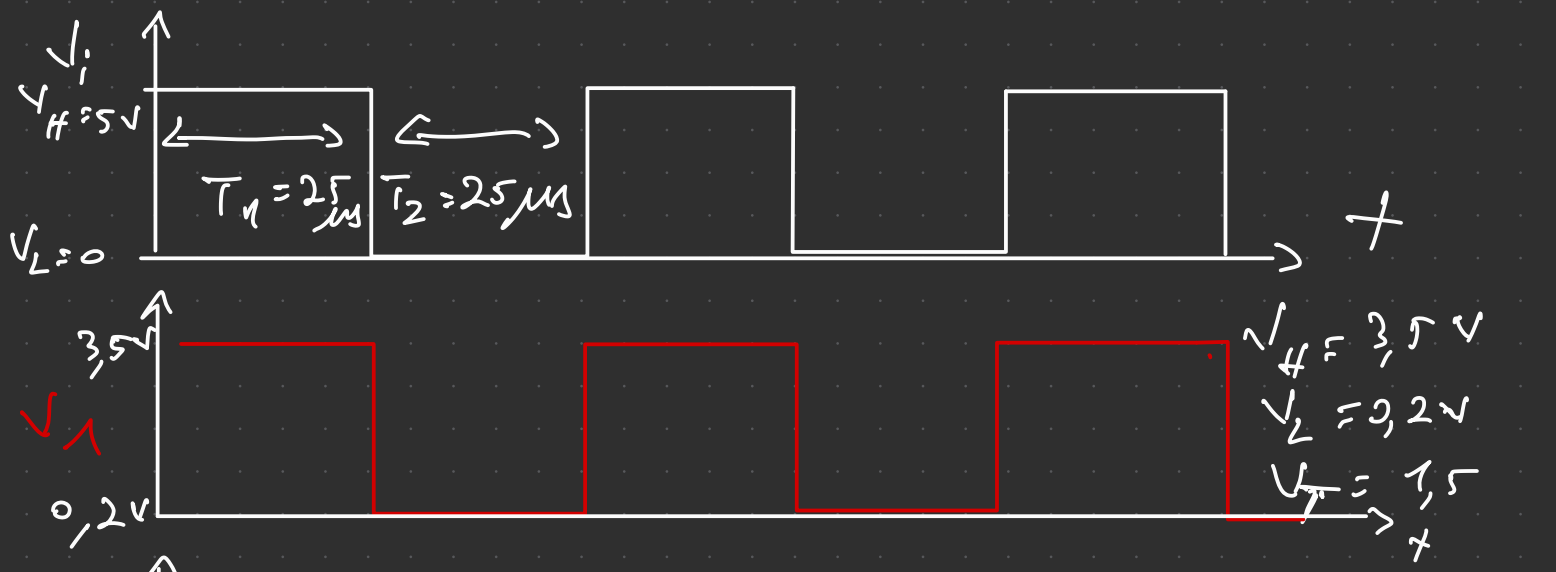
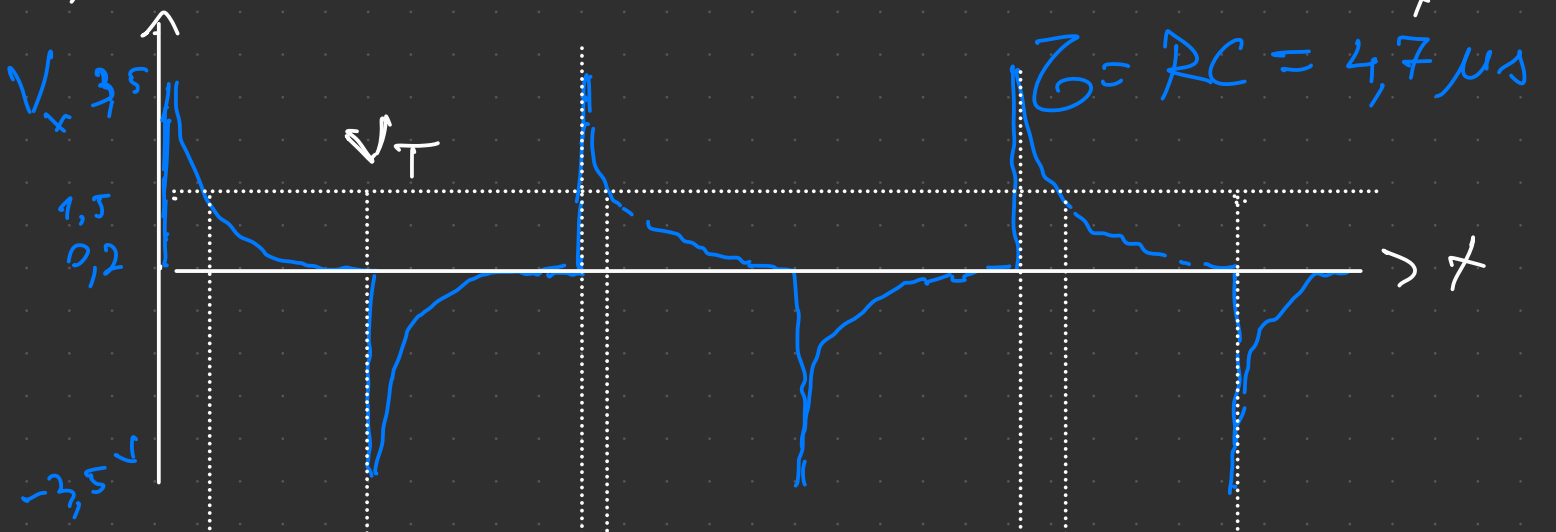
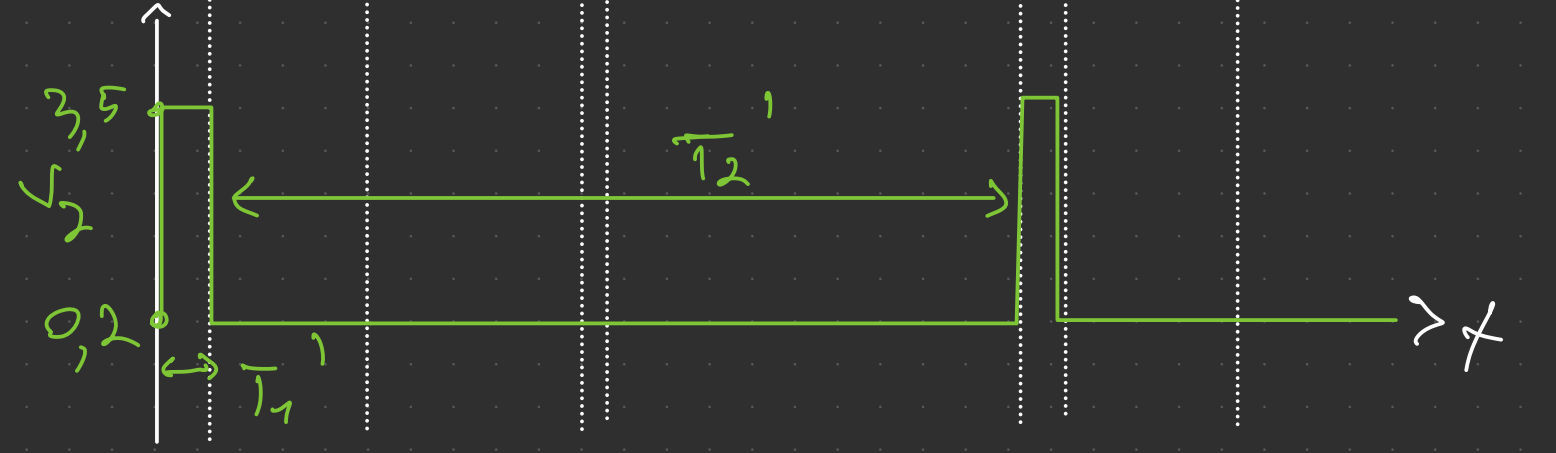
Schema:


C
10 nF
Vi
V1
Vx
V2
R
500 Ohm


Vi
VH = 5V
T1 = 25 µs
T2 = 25 µs
VL = 0
t

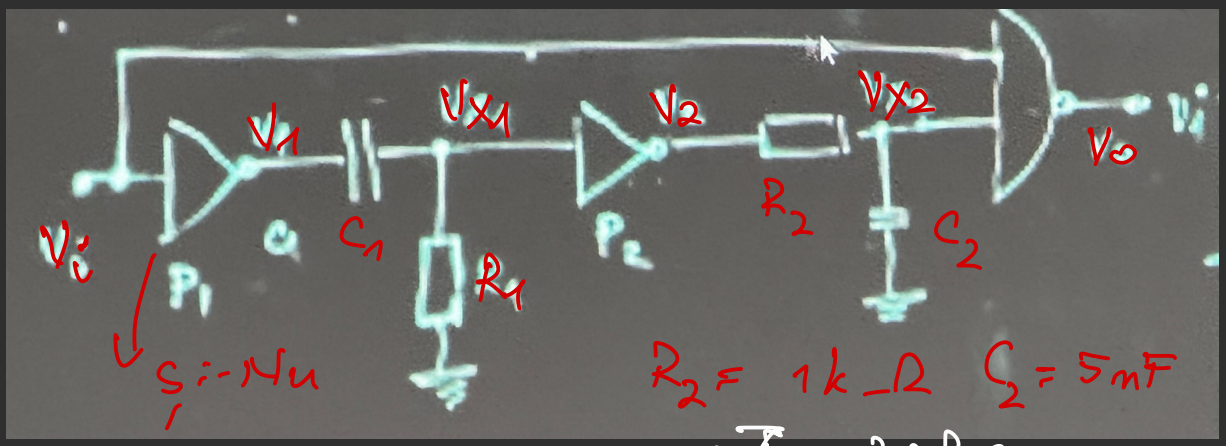
3,5
V1
0,2V
VH = 3,5 V
VL = 0,2V
VT = 1,5
t


Vx 3,5
VT
1,5
0,2
-3,5 V
t
τ = RC = 4,7 µs


3,5
V2
0,2
T1'
T2'
t

$$T_1' = RC \ln \frac{V_f - V_i}{V_f - V_T}$$

$$T_1' = RC \ln \frac{V_L - V_H}{V_L - V_T} = 4{,}7 \ln \frac{0{,}2 - 3{,}5}{3{,}2 - 1{,}5}$$



$R = 5k\Omega$
$C = 2nF$

$2,2\,C = 2,2C$
$= 22\mu s$

$2,2\,\tau_2 = 2,2R_2C_2 = 11\mu s$

V_i: 5V, 0V; $T_1 = 30\mu s$, $T_2 = 30\mu s$; t

V_1: 3,5; 0,2; t

V_{x1}: V_H, V_T, V_L; Trece Sus; t; t_1

V_2: V_H, V_L; t

V_{x2}: V_H, V_T, V_L; Trece Jos; t

V_0: V_H, V_L; T_1', T_2', T_3', T_4', T_3', T_4'; t

$$T_1' = RC \ln \frac{V_H - V_L}{V_H - V_T}$$

$$T_2' = T_1 - T_1'$$

$$T_3' = T_2 \qquad T_4' = T_1$$