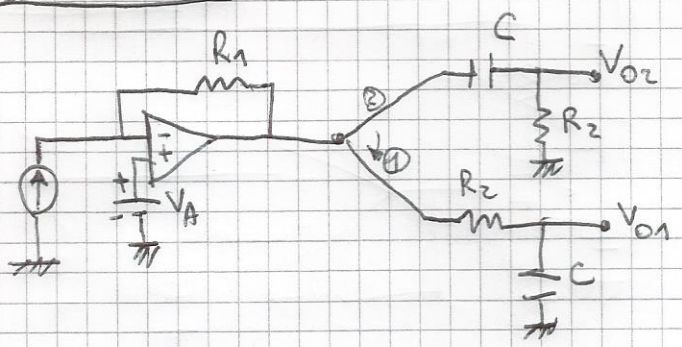
05/06/2013

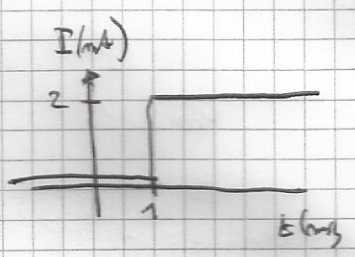


$V_A = 2V$

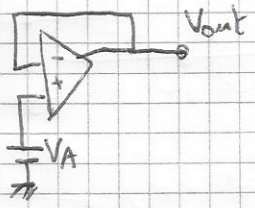
$R_1 = 3\,k\Omega$

$R_2 = 5\,k\Omega$

$C = 0{,}1\,\mu F$



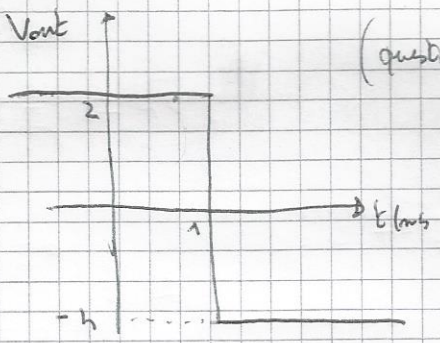
• $t < 1$



$V_{out} = V_A = \boxed{2V}$ è un inseguitore di tensione

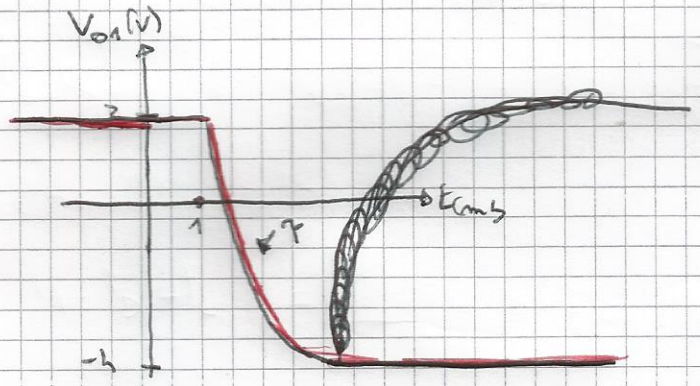
• $t \geq 1$

$V_{out} = V_A - 1R_1 = \boxed{-4V}$



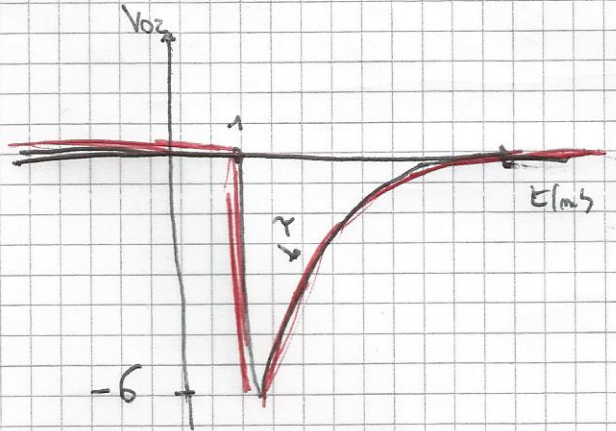
(questo è solo per capire, non obbligatorio all'esame)

Caso ① → PASSA-BASSO



$\tau = R_2 C = 5 \cdot 0{,}1 \cdot 10^{-6} \cdot 10^{3} = 0{,}5\,ms$

Caso ② → PASSA ALTO



$\tau = R_2 C = 0{,}5\,ms$