

LEZIONI PRIVATE 346/3103392

1) AMP. IDEALE $\rightarrow V_{out}=?$

$R_1 = 1k\Omega$ $R_2 = 10k\Omega$

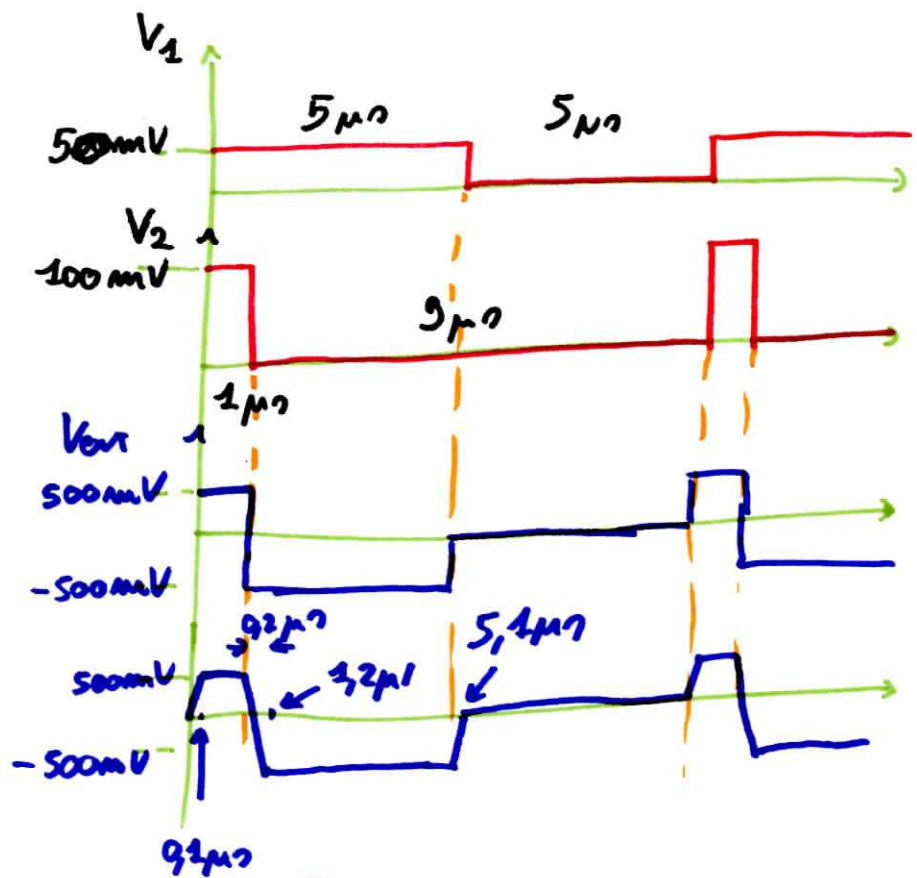
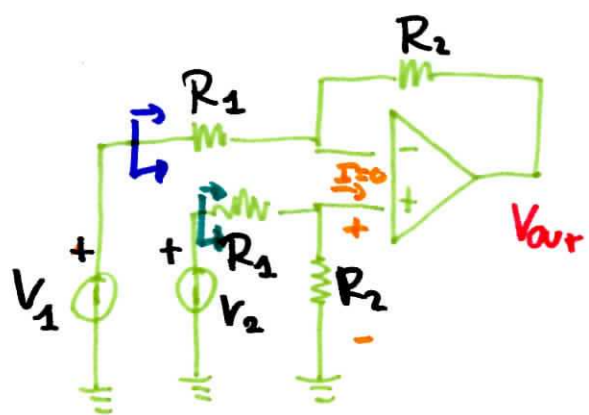
2) $SR = 5 \cdot 10^6 V/\mu s = 5V/\mu s$

$V_{out}=?$

$V_{out} = V_{out1} + V_{out2}$

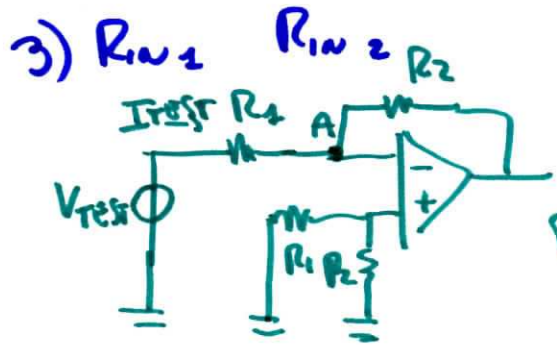
$V_{out1} = V_1 \left(-\frac{R_2}{R_1} \right) = -500mV$

$V_{out2} = V_2 \left(\frac{R_2}{R_1 + R_2} \right) \left(1 + \frac{R_2}{R_1} \right) = 1000mV$

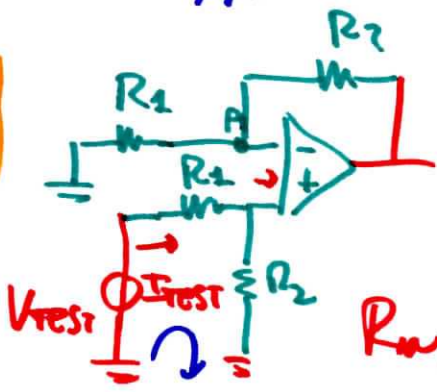


$SR = \frac{\Delta V}{\Delta t}_{MAX}$

$1\mu s : 5V = x : 0,5$
 $x = \frac{1\mu s \cdot 0,5V}{5V} = 0,1\mu s$



$V_A = V^{(+)} = 0$ $I_{R2} = \frac{V_{test}}{R_2}$
 $R_{in2} = \frac{V_{test}}{I_{test}} = R_2$



$I_{test} = \frac{V_{test}}{R_1 + R_2}$
 $R_{in1} = \frac{V_{test}}{I_{test}} = R_1 + R_2$