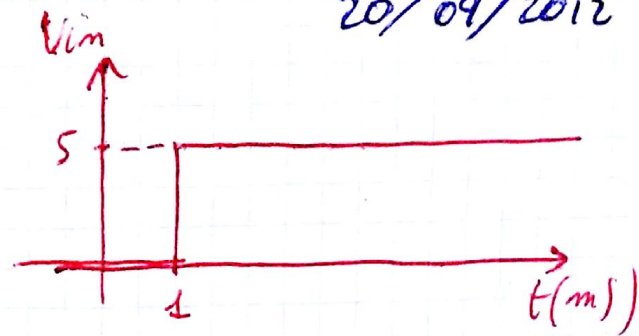
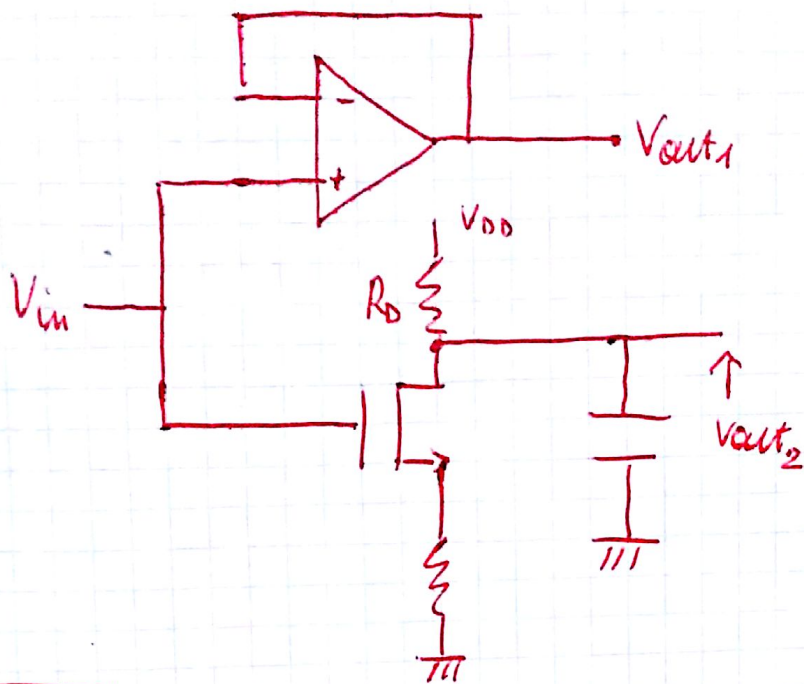


20/09/2012



$t < 1$ $V_G = 0$ $V_S = R_S I_D \Rightarrow V_{GS} = -R_S I_D < 0 \Rightarrow$ TRANSISTOR INTERDETTO

$\Rightarrow V_{out2} = 0, V_{out1} = 0$

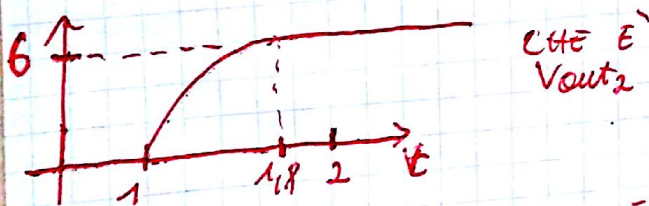
$t > 1$ $V_G = 5V, V_S = R_S I_D$ $I_D = (5 - R_S I_D - 1)^2 \cdot K = \frac{1}{2} (4 - I_D)^2$

$I_D = 8mA \rightarrow V_{GS} = -3 < 0$ IMPOSSIBILE
 $I_D = 2mA \rightarrow V_{GS} = 3V$ ED INOLTRE

$V_{DS} = V_{DD} - R_D I_D = 6 > V_{GS} - V_T$
 VERIFICATA IPOTESI SATURAZIONE

PER IL CONDENSATORE

$V(\infty) = V_{DS} = V_{DD} - R_D I_D = 6V$
 $V(0) = 0$ $\tau = R_2 C = 0,2ms$



CHÉ È V_{out2}

$V_{out1} = 5V$ (INSEGUITORE DI TENSIONE)

