

LEZIONI PRIVATE 346/3103392

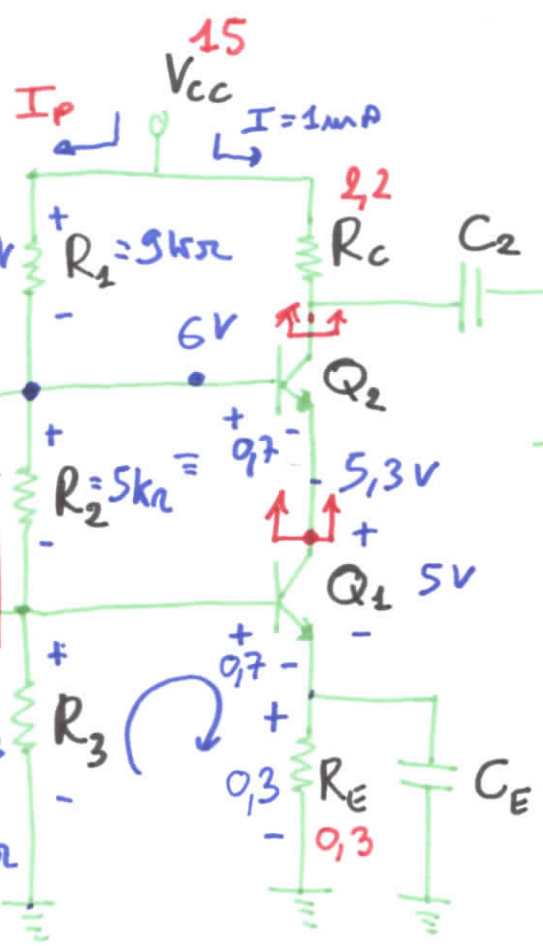
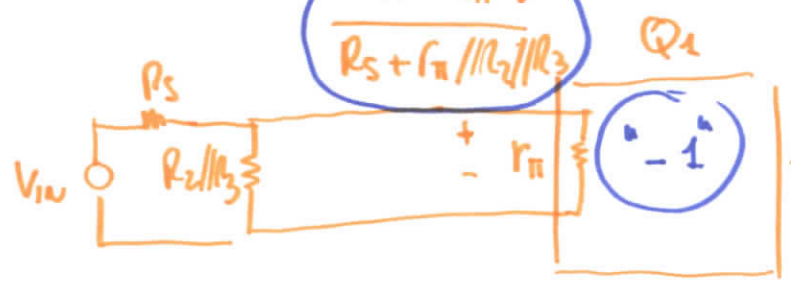
$R_1, R_2, R_3 = ?$ $C_b; f_L = 10\text{kHz}$
 $I_C = 1\text{mA}$ $P_{Diss} = 30\text{mW}$ $V_{CE1} = 5\text{V}$

$V_{CC} \cdot I_{TOT} = 30\text{mW}$
 $15(1\text{mA} + x) = 30 \quad x = 1\text{mA}$

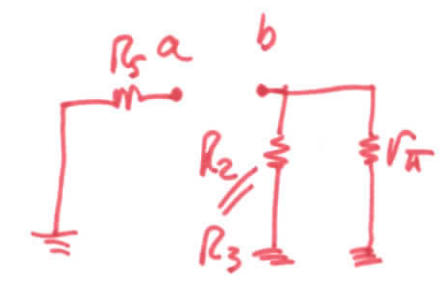
$A_{V1} = -g_{m1} R_{C1} = -g_{m1} \frac{1}{g_{m2}} = -1$
 $R_{in} = \frac{1}{g_{m2}}$

$A_{V2} = g_{m2} R_{C2} = g_{m2} (R_C // R_L)$

$\frac{r_{\pi} // R_2 // R_3}{R_S + r_{\pi} // R_2 // R_3}$



$\tau_b = C_b R_{eqb}$



$R_{eq} = (R_2 // R_3 // r_{\pi}) + R_S$

$\omega_b = \frac{1}{\tau_b} = (2\pi \cdot 10\text{kHz})$

