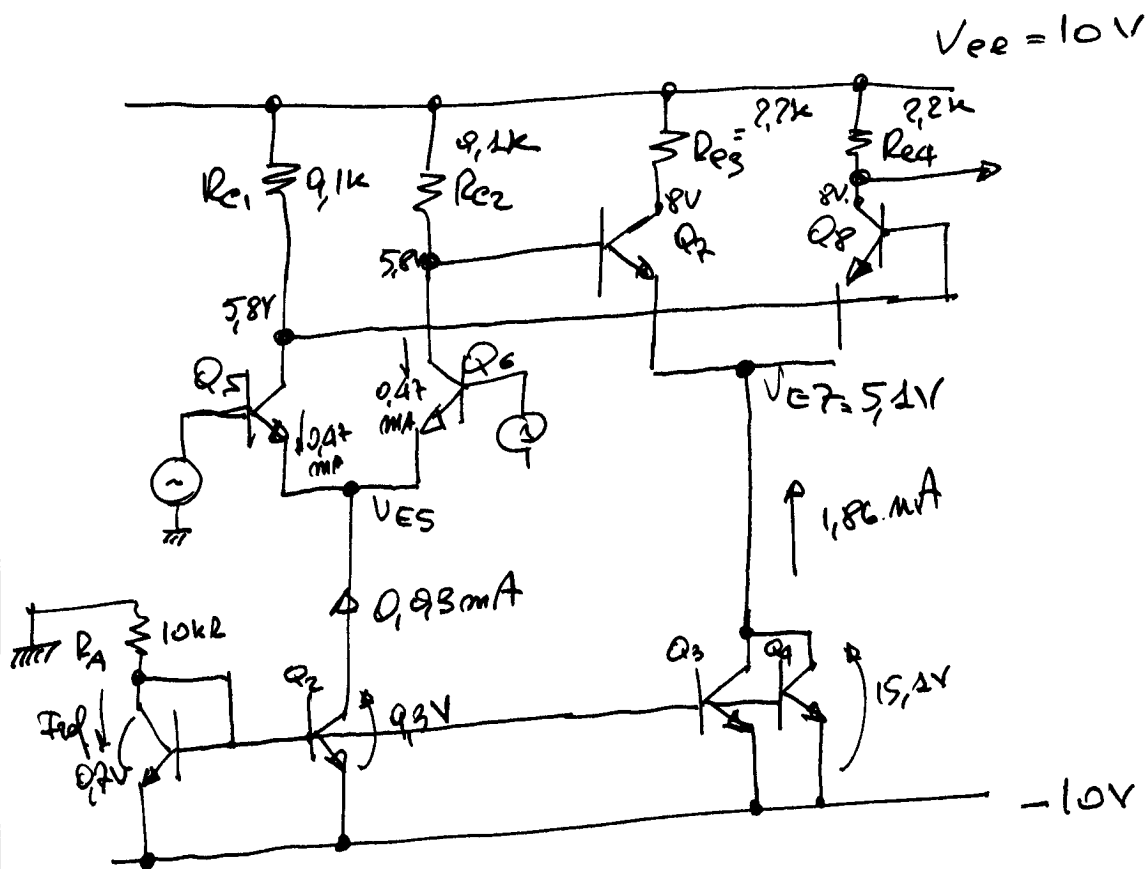


Altro esempio: semplice coppia di differenziali in
coscente $\rightarrow$ rudimentale "operazionale" 17



$$\textcircled{1} I_{ref} = \frac{-0.7 - (-10V)}{10k\Omega} = 0.93mA \quad (\text{protezione})$$

$$0.93 \begin{cases} \rightarrow Q_5 = 0.47mA \\ \rightarrow Q_6 = 0.47mA \end{cases} \Rightarrow V_{ES} = -0.7V \Rightarrow V_{CEQ2} = 9.3V$$

$$V_{CEQ5} = 5.8V \quad (\text{Dinamico}) = V_{CEQ6} \Rightarrow R_{E1} = R_{E2} = 9.1k$$

$$V_{E7} = 5.1V \Rightarrow V_{CEQ2} = 8V = V_{CEQ4} = 8V \quad (\text{Dinamico})$$

$\uparrow$ enticite!

$$V_{CEQ4} = 15.1V \Rightarrow I_C(Q3||Q4) = 1.86mA$$

$$I_C(Q2) = 0.93mA = I_C(QP) = 0.93mA$$

$$\Rightarrow R_{C3} = 22k = R_{C4} = 22k$$