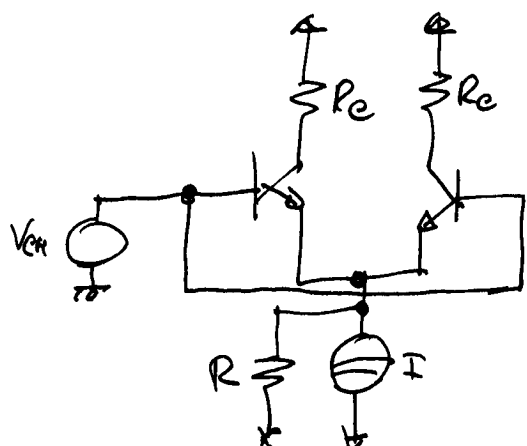
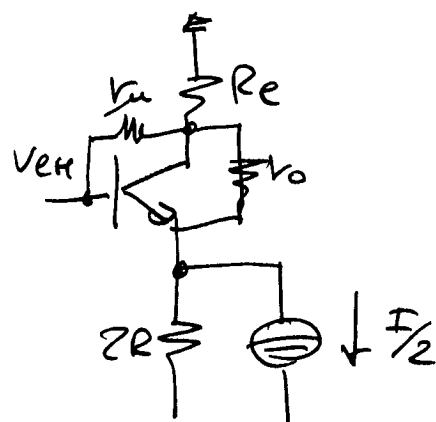


Z_{iu} (modo comune)



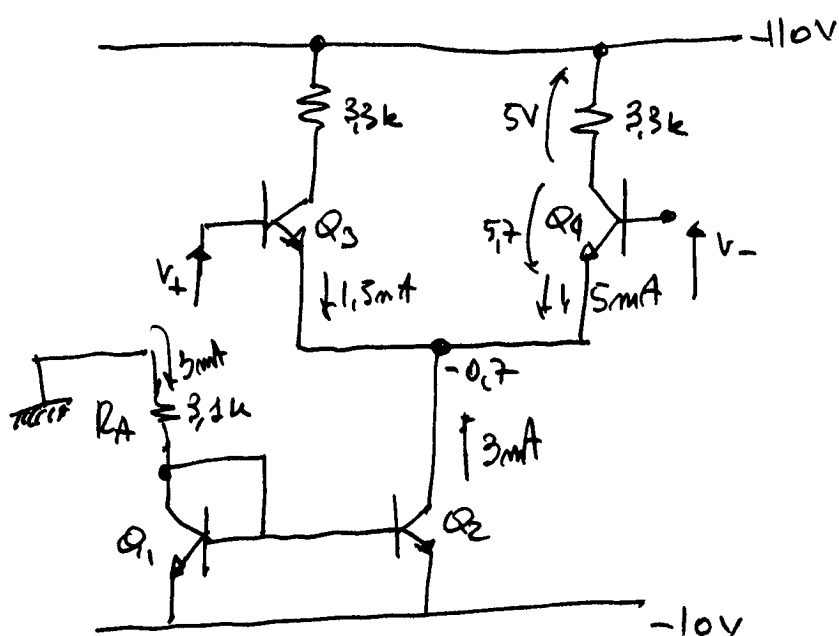
→ equivalente di mezzo circuito



guadagno common mode piccolo $\rightarrow 0 \Rightarrow$ segnale al collettore 0

$$2R_{iu} = r_u \parallel [h_{fe} \cdot 2R] \parallel [h_{fe} \cdot r_e]$$

Differenziale con carico attivo su emettitore.



$$R_A = \frac{-0.7 - (-10V)}{3mA} = 3.1k\Omega$$

scelta

$$I_{C1} = I_{C2} = 1.5mA$$

$$R_{C1} = R_{C2} = 3.3k\Omega$$

$$P_{Q1} = 0.7 \times 3mA = 0.2mW$$

$$P_{Q2} = 3mA(-0.7 - (-10V)) \sim 28mW$$

$$P_{Q3} = P_{Q4} = (1.5mA \times 9.2V) = 8.6mW$$