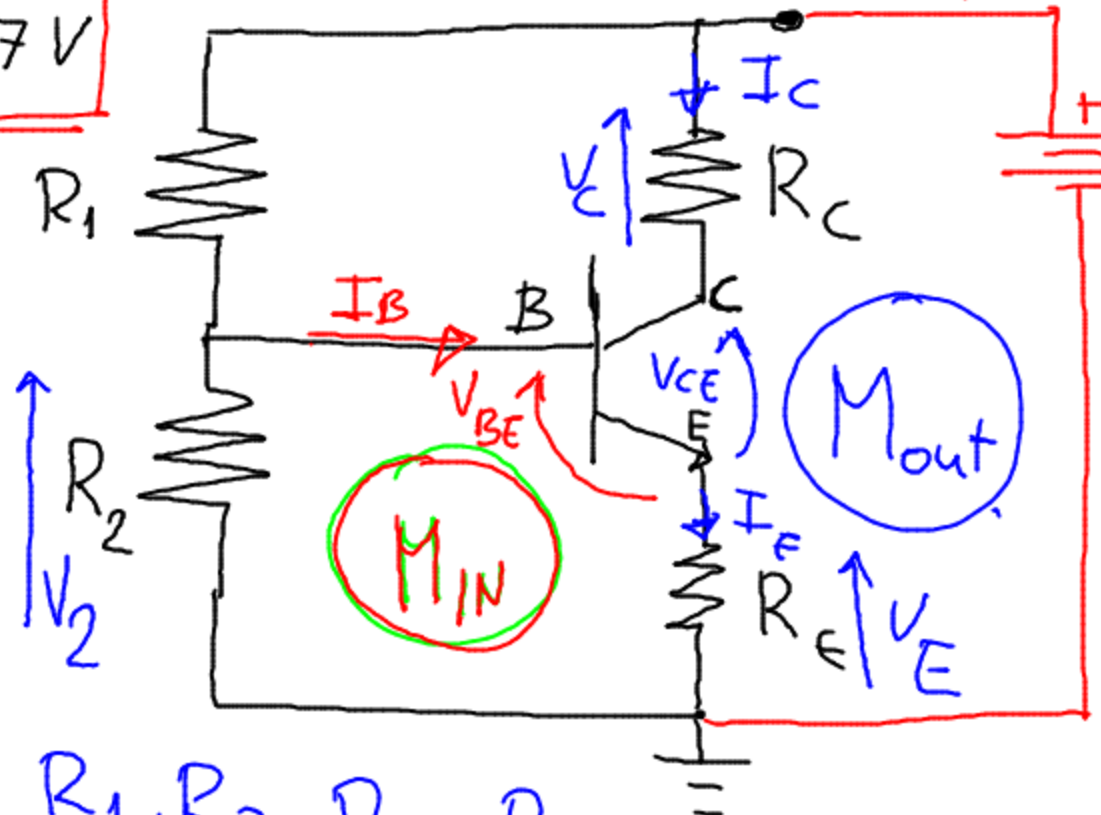


ANALISI Statica - BJT

$V_{BE} \approx 0,7V$



LE RESISTENZE R_1 e R_2 costituiscono un PARTITORE DI TENSIONE

$$V_2 \approx \frac{R_2}{R_1 + R_2} \cdot V_{CC}$$

NOTI: R_1, R_2, R_C, R_E
 V_{CC}, β $\alpha = \frac{\beta}{\beta + 1}$

$V_2 = V_{BE} + V_E$ 2° P.d.k.

$$\textcircled{2} \quad V_E = V_2 - V_{BE}$$

$$\textcircled{3} \quad I_E = \frac{V_E}{R_E}$$

$$\textcircled{4} \quad I_C = \alpha I_E$$

$$\textcircled{5} \quad V_C = R_C I_C$$

$$\textcircled{6} \quad V_{CE} = V_{CC} - (V_C + V_E)$$

$$\textcircled{7} \quad I_B = \frac{I_C}{\beta}$$

IN

$\left\{ \begin{array}{l} I_B \\ V_{BE} \end{array} \right.$

3/3

OUT $\left\{ \begin{array}{l} I_C \\ V_{CE} \end{array} \right.$