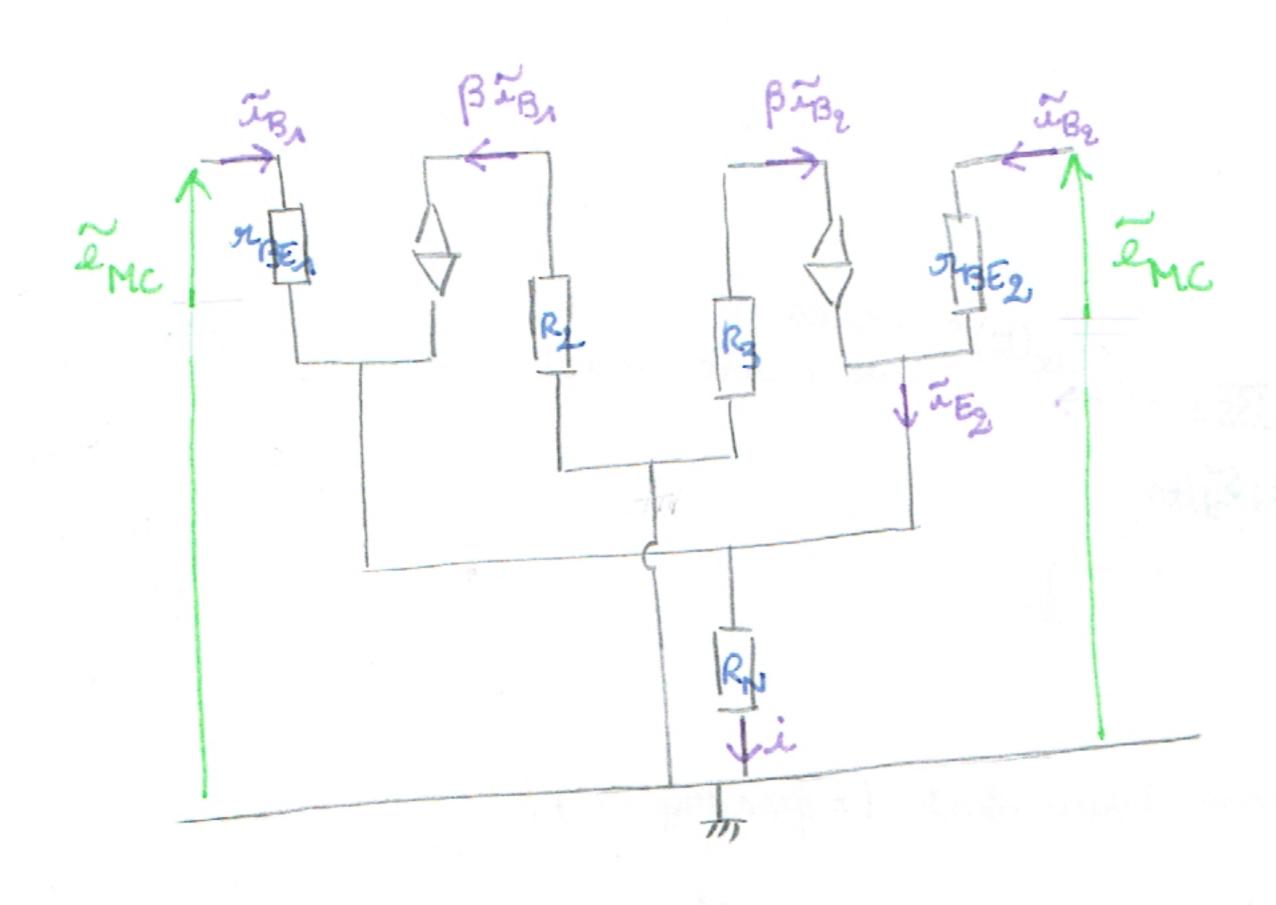
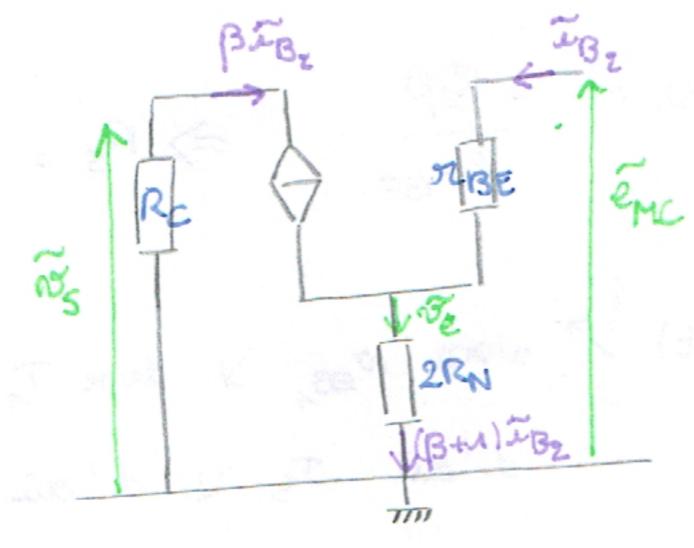
Partie 4: Étude du mode commun

& mode commun: ed = 0



$$\begin{array}{lll}
* & i = (\beta + 1) I_{B_1} + (\beta + 1) I_{B_2} \\
& = (\beta + 1) (I_{B_1} + I_{B_2}) \quad \text{or} \quad I_{B_1} = I_{B_2} \\
& = 2(\beta + 1) I_{B_2} \Rightarrow I_{B_2} \Rightarrow I_{B_2} = 2R_N(\beta + 1) I_{B_2} \\
& \stackrel{\text{def}}{\approx} = -R_3 \beta I_{B_2}
\end{array}$$

=) demi schema



•
$$\tilde{v}_{5}^{2} = -\beta R_{C} \tilde{x}_{B_{2}}$$

• $\tilde{e}_{MC} = \tilde{n}_{BE} \tilde{x}_{B_{2}} + (\beta + 1) R_{N} 2 \tilde{x}_{B_{2}} \implies A_{MC} = \frac{-\beta R_{C}}{\tilde{n}_{BE} + 2(\beta + 1) R_{N}}$
• $\tilde{e}_{MC} = \tilde{n}_{BE} \tilde{x}_{BE} + (\beta + 1) R_{N} 2 \tilde{x}_{B_{2}} \implies A_{MC} = \frac{-\beta R_{C}}{2(\beta + 1) R_{N}} = \frac{-R_{C}}{2R_{N}}$