TP3, suite,





$$R_{N} = \frac{V_{S}}{\pi_{C}} = \Im_{CE_{G}} \left[1 + \frac{\beta R_{7}}{\pi_{BE_{G}} + R_{7}} \right] + \frac{R_{7}}{R_{7} + \pi_{BE_{G}}}$$

* application numérique:

$$\Rightarrow \pi_{CE_6} = \frac{\text{Vearly}}{I_0} = \frac{50}{4.10^{-3}} = 12.500 \Omega$$
.

$$\rightarrow \pi_{BE_6} = \frac{U_T}{I_{80}} = \frac{U_T}{I_{0/\beta}} = \frac{25.10^{-3} \times 100}{4.10^{-3}} = 625 \Omega$$

$$= R_{N} = 12500 \times \left(1 + \frac{100 \times 150}{625 + 150}\right) + \frac{150 \times 625}{150 + 625}$$