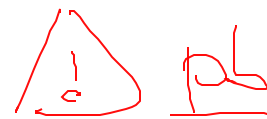


$$T(p) = A(p) \cdot H(p)$$

$$\frac{V_S}{V_e} = \frac{A(p)}{1 + A(p)H(p)}$$

si  $T(p) = -1$  alors dénom  $\frac{V_S}{V_e} \rightarrow 0 \Rightarrow \frac{V_S}{V_e} \rightarrow \infty$

systeme instable qd  $T(p) = -1$



$$\hookrightarrow \begin{cases} * |T(p)| = 1 \\ * \text{Arg } T(p) = \pi \end{cases}$$

Marge de phase:

$$\Delta\varphi = \pi - \text{Arg}[T(p)]$$

à la fréquence  $f_1$  tq  $|T(p)| = 1$

stabilité correcte si  $\Delta\varphi = \pi/4$