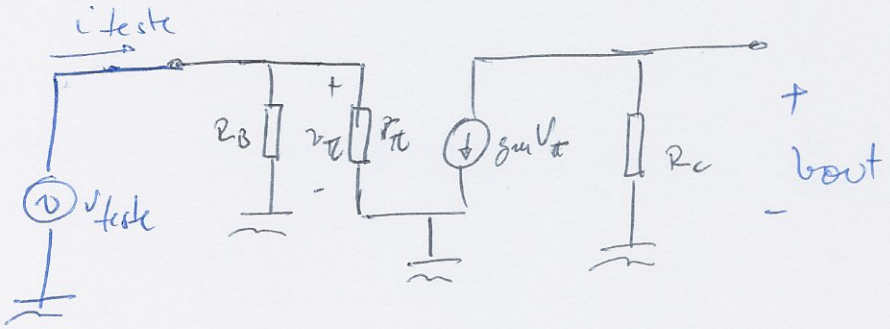
Portanto:

Na entrada (R_{in}, A_v)



$R_B = 1,14 M\Omega$

$r_\pi = 12,902 K\Omega$

$g_m = 0,038751 S$

$$R_{in} = (R_B // r_\pi) = \frac{1,14\times10^{6} \times 12,902\times10^{3}}{1,14\times10^{6} + 12,902\times10^{3}}$$

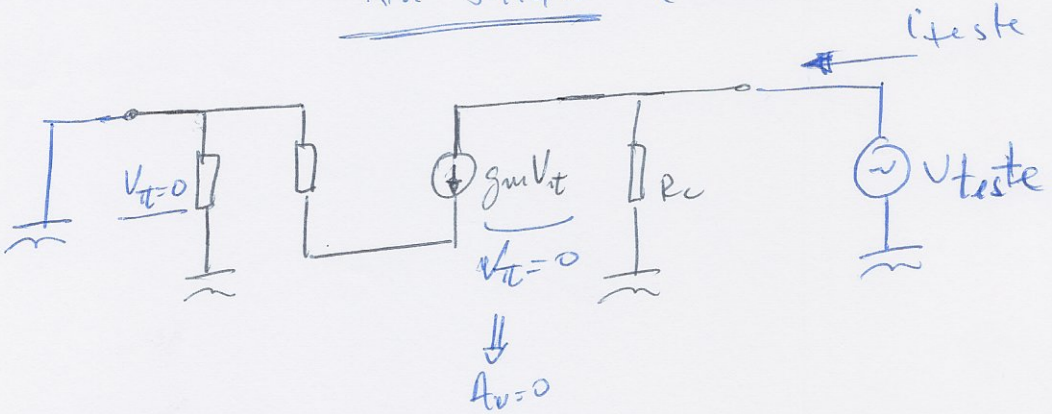
$$\boxed{R_{in} = 12,758\ K\Omega}$$

$V_{teste} = V_\pi$

$$V_{out} = -g_m V_\pi \times R_c = -g_m V_{Teste} \times R_c$$

$$A_v = \frac{V_{out}}{V_{teste}} \longrightarrow \boxed{A_v = -g_m \cdot R_c}$$

Na Saída (R_{out})



$$V_\pi = 0 \Longrightarrow g_m V_\pi = 0$$

$$\boxed{R_{out} = \frac{V_{teste}}{I_{teste}} = R_c}$$