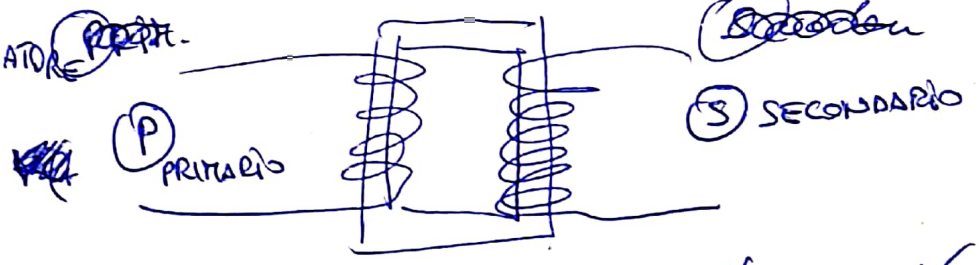
nº 4 TRASFORMATORE



$V_p = 220\,V$

$N_p = 300$ avv

$V_s = 20\,kV$

$N_s = ?$

A) $\frac{N_s}{N_p} = \frac{V_s}{V_p} \rightarrow N_s = N_p \cdot \frac{V_s}{V_p} = 300 \cdot \frac{20.000\,V}{220\,V}$

$N_s = 27 \cdot 272$

B) $i_p = 0,4\,A$ $\quad i_s = ?$

$$\frac{i_s}{i_p} = \frac{V_p}{V_s} = \frac{N_p}{N_s}$$

$$i_s = i_p \frac{V_p}{V_s} = 0,4A \cdot \frac{220\,V}{20'000\,V} = 4,4 \cdot 10^{-3}\ A$$