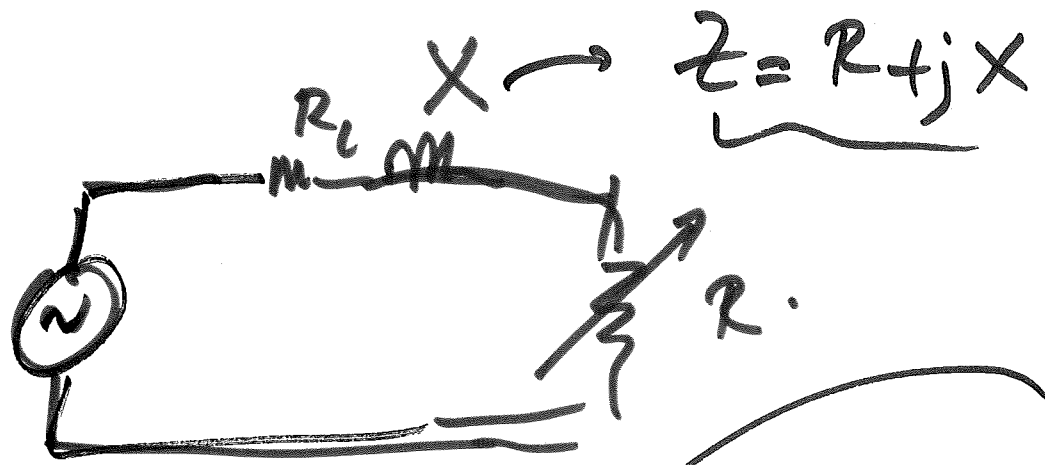
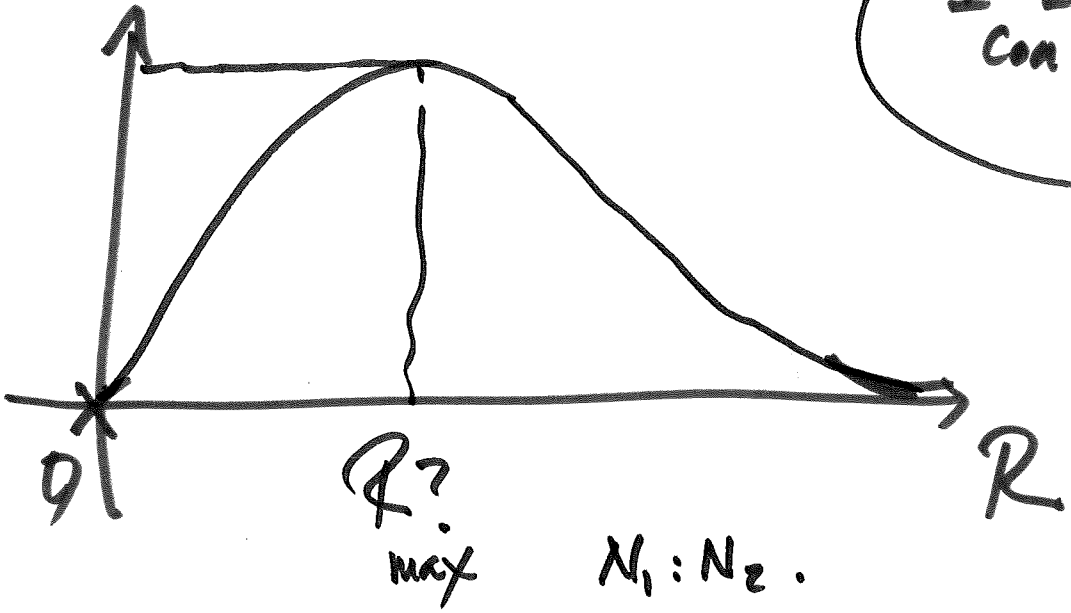


1

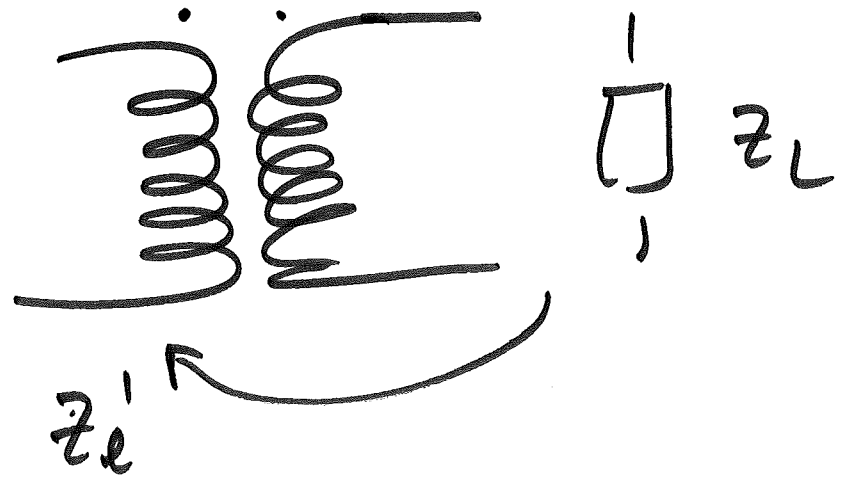


P_{consumed}

$$P_{\text{con}} = R |I|^2$$



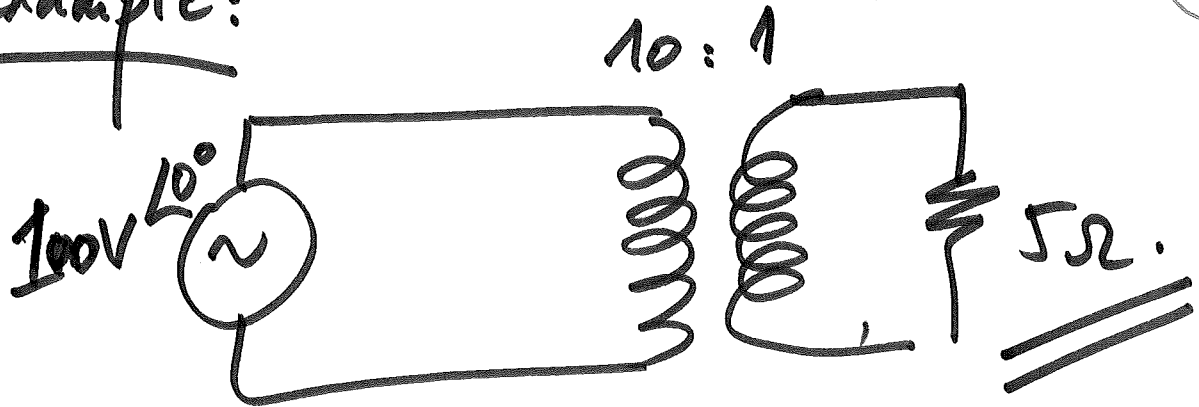
$$\left\{ \begin{aligned} \frac{\bar{V}_1}{\bar{V}_2} &= \frac{N_1}{N_2} \\ \frac{\bar{I}_1}{\bar{I}_2} &= \frac{N_2}{N_1} \end{aligned} \right.$$



$$Z_e' = \left(\frac{N_1}{N_2} \right)^2 Z_L$$

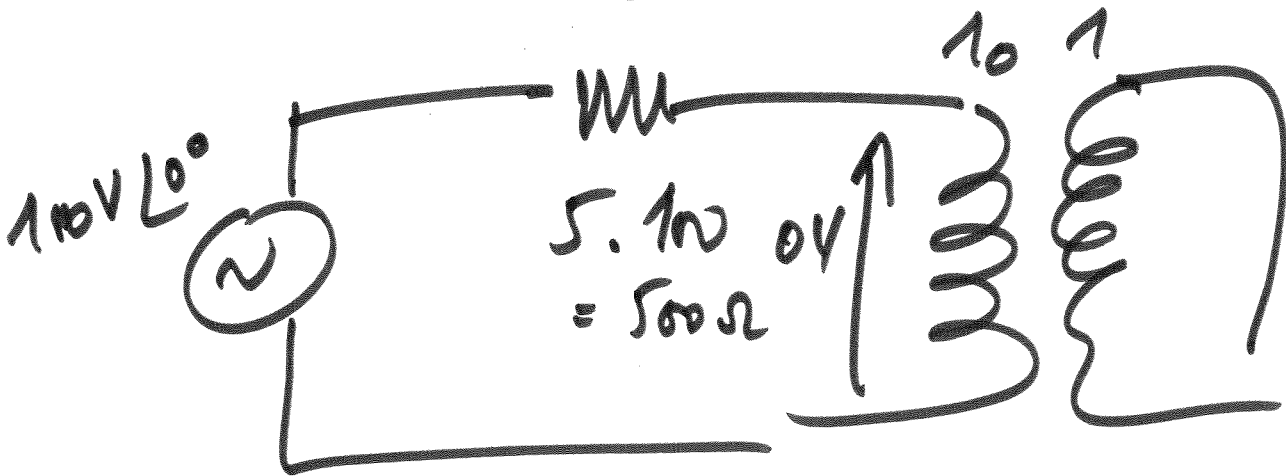
Example:

2



Calculate P :

$$P = \frac{V_L^2}{5\Omega} = \frac{10^2}{5} = \underline{20 \text{ W.}}$$



$$P = \frac{(100V)^2}{500\Omega} = \underline{20 \text{ W.}}$$