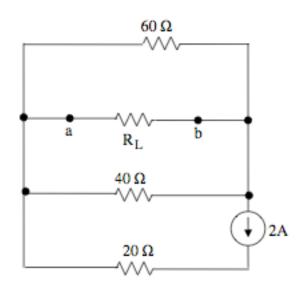


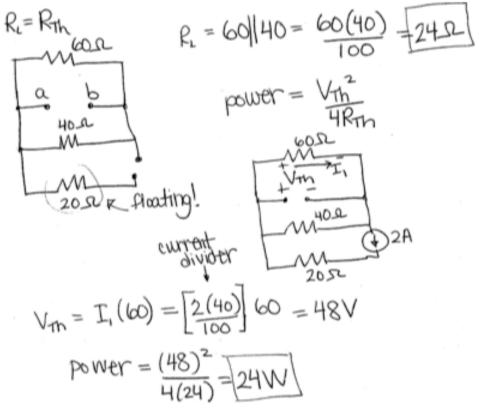
Ex:



a) Calculate the value of  $R_{\rm L}$  that would absorb maximum power.

b) Calculate that value of maximum power  $R_{\rm L}$  could absorb.

SOL'N:



Note: Circuit used to find max power value is shown below.

$$V_{m} \bigoplus_{I \to 0}^{k_{T}} R_{I} = R_{T} h$$

$$P = I \cdot V = I^{2} R$$

$$P = \frac{V_{T}^{2} h}{(2R_{m})^{2}} \cdot R_{T} h$$

$$P = \frac{V_{T} h}{4R_{T} h}$$