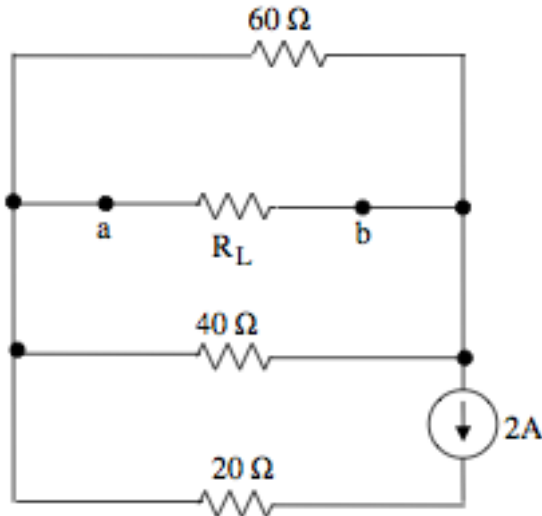


Ex:



- Calculate the value of  $R_L$  that would absorb maximum power.
- Calculate that value of maximum power  $R_L$  could absorb.

SOL'N:

$R_L = R_{Th}$   
 $R_L = 60 \parallel 40 = \frac{60(40)}{100} = \boxed{24 \Omega}$

power =  $\frac{V_{Th}^2}{4R_{Th}}$

$V_{Th} = I_1(60) = \left[ \frac{2(40)}{100} \right] 60 = 48V$

power =  $\frac{(48)^2}{4(24)} = \boxed{24W}$

*Handwritten notes:*  
 20 Ω R floating!  
 current divider

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

