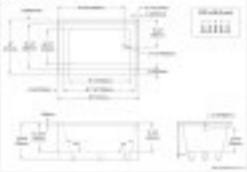


**PROBLEM 1**  
 (20 points)



Find the value of  $R_L$  that will result in maximum power transfer to the load resistor  $R_L$ . What is the maximum power transferred to  $R_L$ ?

1