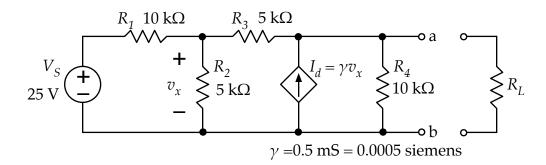For the circuit shown below, a load resistor will be attached at the port defined by the nodes a and b. What value of R_L will give the maximum power dissipation in the load? If R_L has that value, what is the power that will be dissipated in the load?

$\gamma = 0.5$ mS $= 0.0005$ siemens

$R_L =$ _____ P_L (max) $=$ _____