RL = RTH

5) Find the maximum power.

FORMULAS:-

IL = V/(RS + RL)

Power delivered to the load is =:

Pmax = I\* I\*R ------------------------------------------- [1]

Pmax =( V/(RS + RL))\*( V/(RS + RL) )\* RL -----------------------------[2]

Pmax = V\*V/(4\* RL )-----------------------------------: By putting source resistance equal to load resistance

CIRCUIT DIAGRAM:-