## Ex. No.:2

Date: 28/09/14

## Verification of NETWORK THEOREMS

(Maximum Power Transfer Theorem)

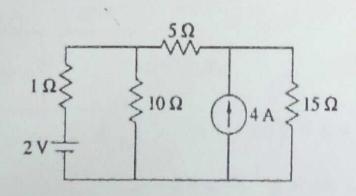
Aim: To verify the maximum power tromaple theorem for the given network by theoritical values and simulation values

## Apparatus/Tool required:

ORCAD / Capture CIS --> Analog Library - R,
Source Library - Vdc, Idc &
Ground (GND) - 0 (zero)

Simulation Settings: Analysis Type - Bias Point

## Circuit Diagram

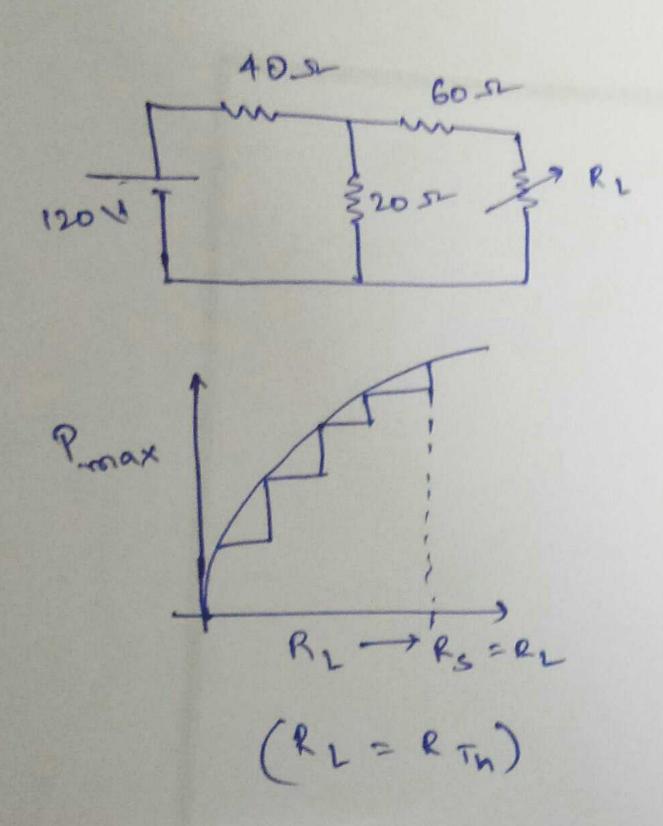


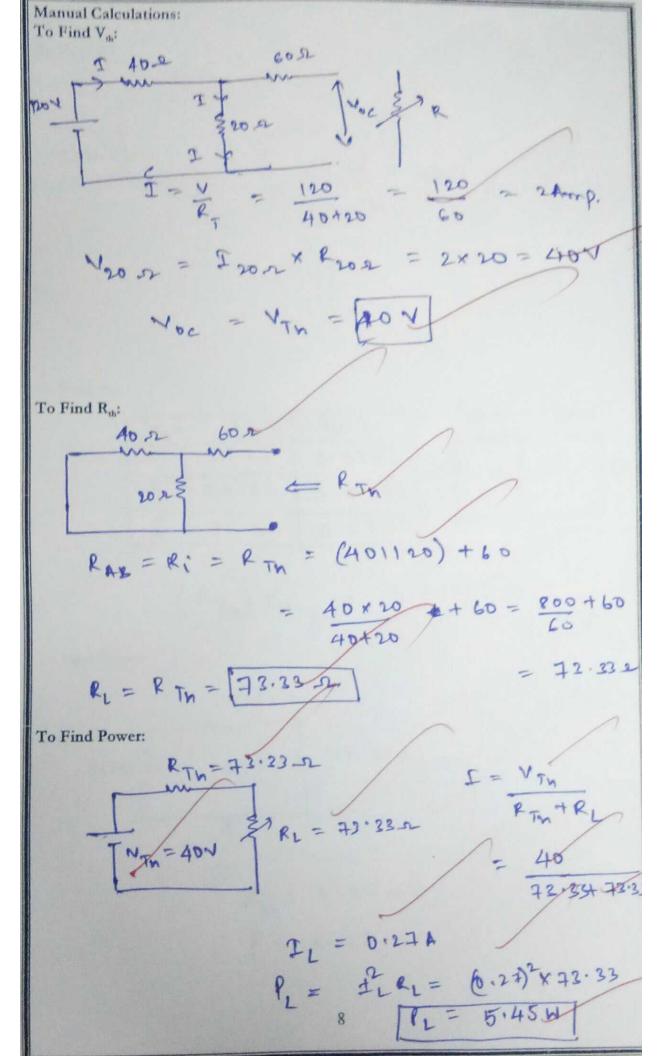
Statement: Maximum Power Transfer Theorem

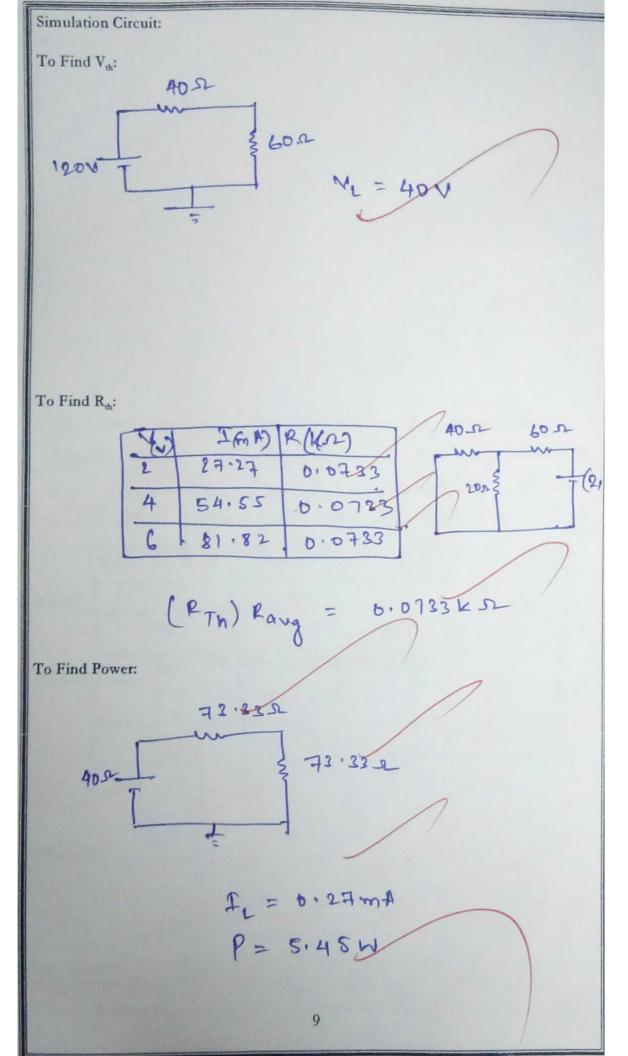
An a linear bileturel network, the
maximum power is thousford from
source to the boad resistance, when

source Insistance result to load resistance

source Insistance result to load resistance







The maximum power transfer throwen have been verified for the given netroom by thursitical and simulation value and the following shalte are fabulated Parametus Throng 40 V 40 V Result: 73.33 -72.332 Maximum Power Transfer Theorem Manual Calculations Simulated Result 0.27A 0.27 A 145h 5 .45W Inference: Date: 26/09/19 Reg. No: 19 BCE 2014 Name: Kulmin Singh



