

Norton's Theorem:

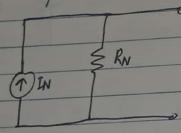
Norton's theorem states that,

"Any two terminal linear bilateral de

network can be replaced by an equivalent

network consisting of a current source

and a parallel resistor.



*) Procedure:

- (i) Remove the portion of the network agross which the Norton equivalent circuit is found
- (i) Mark the tesminals of the remaining two teeminals marks

(iii) RN:

Calculate the RN by setting all the sources to D. (voltage source is replaced by open circuit and ament source is

replaced by open-aracit) and then find the resulting resistance between the marked terminals.

(TV) IN:

Calculate In by first resulting all sources to their original position and then find short circuit bet current between the marked terminals.

Draw the North's equivalent circuit with the portion of the circuit previously removed replaced between the terminals of the equivalent circuit.

RTH = RN	0		1
T Van = INRM	(=)	> 1	\$ RTH = PN
AIN = PIG MA		Em/Rm IN	

Rg: Converting between Therenin's equivalent circuit.

and Norther's equivalent circuit.