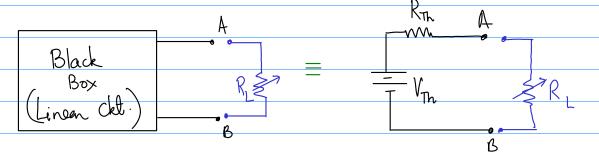
## Circuit Theorems

Recap:

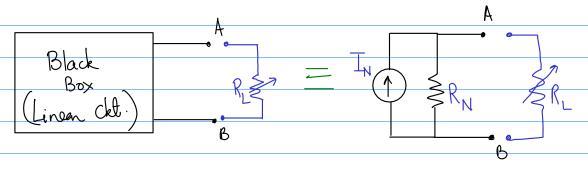
- 1) Superposition Theorem
- 2) Therenin Theorem



Black Box = replaced with a single voltage source v<sub>th</sub>.

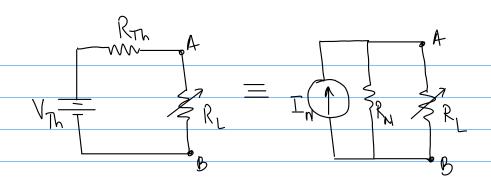
L & series resistance l<sub>th</sub>.

3) Norton Theorem:



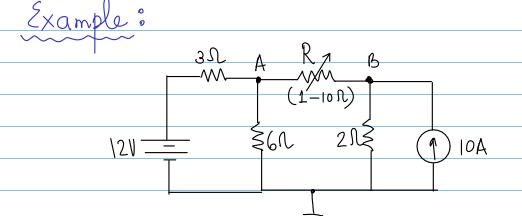
here,  $I_N = I_{sc}$  in Therenin's equivalent cht.

$$T_{N} = \frac{V_{Th}}{R_{Th}}$$
  $R_{N} = R_{Th}$ 



Therein's Voltage VTh = Voc (open cht. voltage)

Norton's Current IN = Isc (short cht. current)



Hore we make use of Thevenin's theorem:
ie Theremize the Ckt. across the terminals A &B

