

Rules

1.1 Node -> 1 voltage

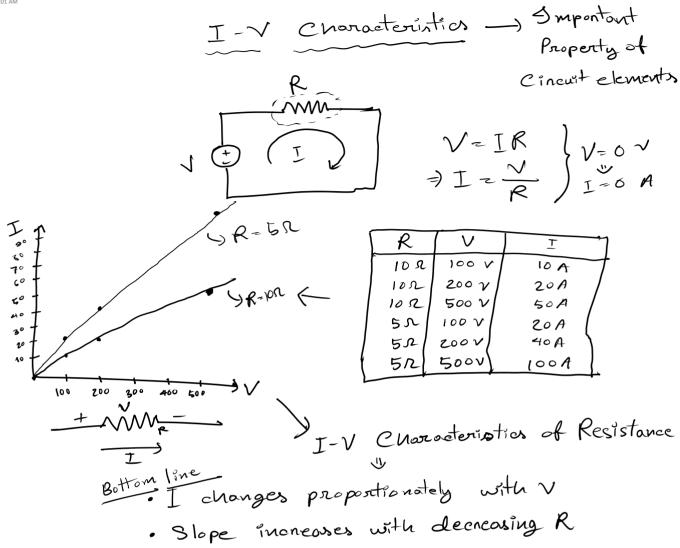
2. | cincuit component -> | cunnent flow.

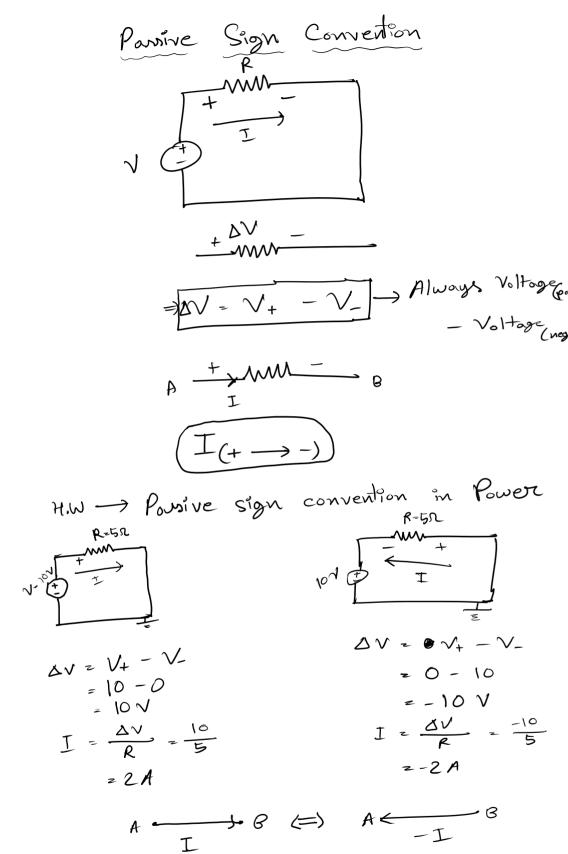
Cincuit component

(+ -)

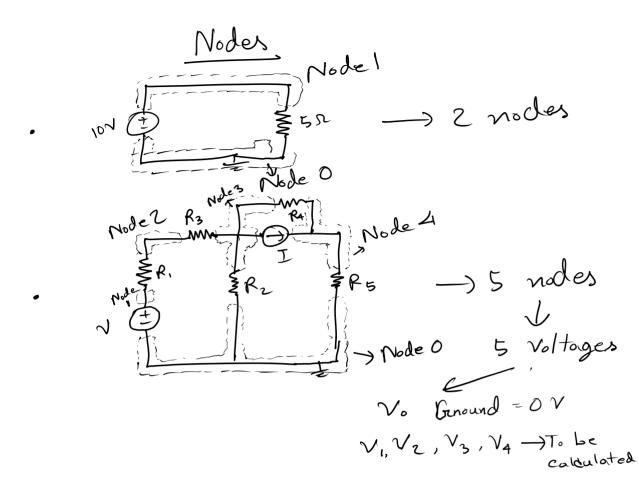
2 tenninal

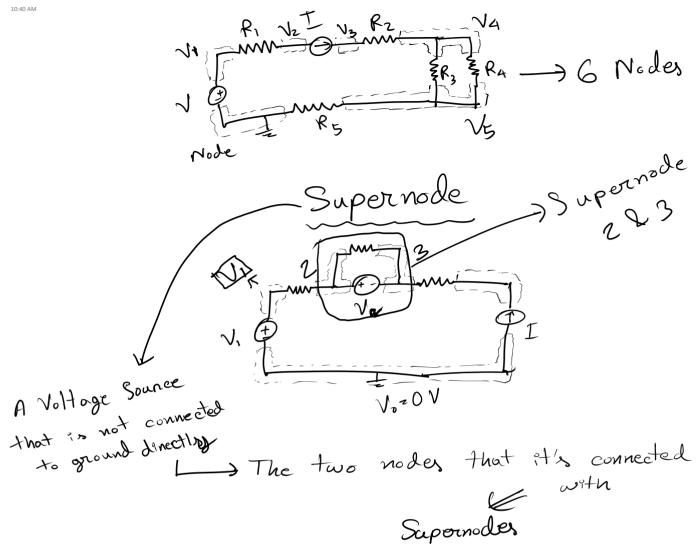
3 tenninal



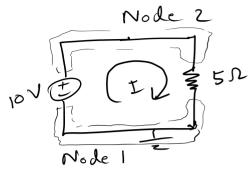


Sec 10 Lec 4 Page 4





Genound



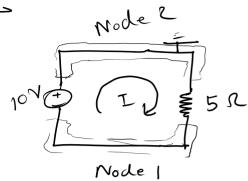
V, V2

 $V_2 - V_1 = 10 V - -(i)$ $V_1 = 6 V$ $V_2 = 10 V$

$$I = \frac{V_2 - V_1}{R}$$

$$= \frac{10 V}{5 R}$$

$$= 2 A$$



 $V_{2} - V_{1} = 10 V_{--} (i)$ $V_{2} = 0 V$ $- V_{1} = 10 V$ $= V_{1} = -10 V$ $I = \frac{V_{2} - V_{1}}{R}$ $= \frac{10 V}{5 R}$ = 2 R

.. We work with differences of voltager, not absolute valeres.

So, we need a neference

Genound