lin 2A as it is Keep SWb2 Vin will be Shorted  $\frac{1}{2} = \frac{6}{15} x^2 =$  $i_2' = \frac{6}{5}A$ V = 2 \* P = (Brown 1 60) = 60 \* 12 = 6 x 64 = 1, + 9, 1 = 4, 9-3 915 15 1/5 415 7.615 3615 To had 3V, 2A

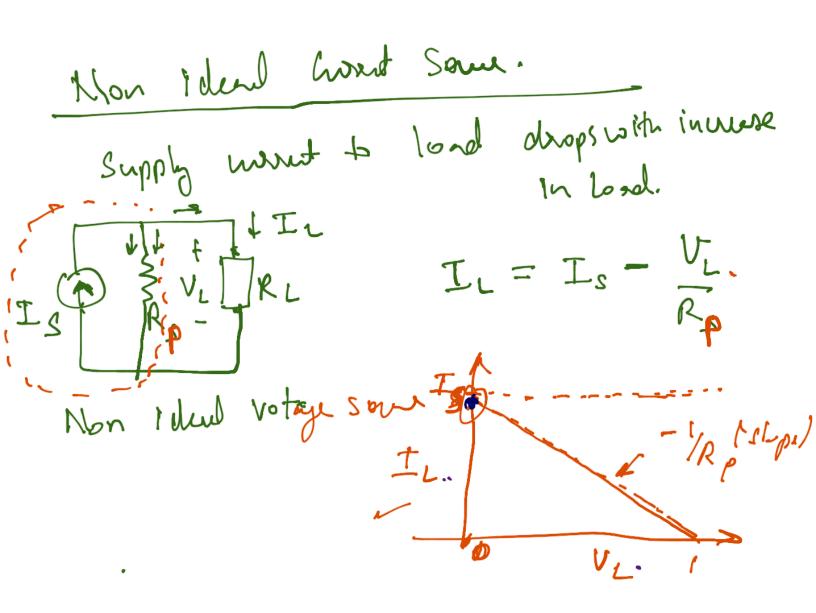
supplies i 2 2 2 2 2 di de for di lo-el  $\frac{1}{2} = \frac{5}{50} \times \frac{1}{2} = 0.1A$  i = 0.01Ae host energy = work done
heat or light (W bulb) New one of  $E = \int_{0}^{2} i^{2}R dt$ Power will  $\int_{0}^{2} (0.1) \int_{0}^{2} dt$ constit

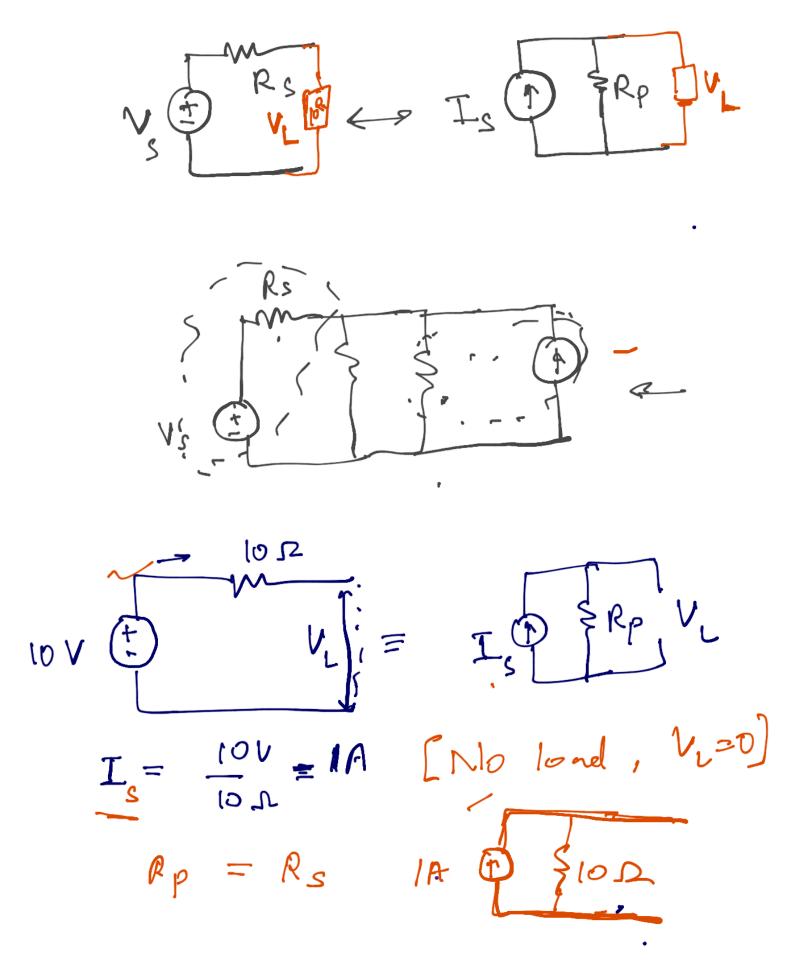
Source Resistance Rose II As We include Rs)

There is drop arrows it. Suppose we incresse IL, dop. across the Rs also increase. 100 A 10 A RL RL looks to Rs Drop acres Rs V-10012 V- 10Rs Supply voltage V-1.Rs
anon RL Autol voltage seen by RL VL = V-I, Rs

Non ideal voltge source
· A real voltge is somme cohore (non ideal)
output /performence changes with load.
we non-ideal voltage same  as  V Toward 7000A  V
Non ideal battery  Vs. Island I L Vo Hye Sam  Le (A) -> I L Vo Hye Sam
Rs is Source residue - Selver

## Supplies worst. with for all loads I g V > R L





Voltges Some Count Som Voltre

Vs, Rs

Tes = Vs

Res

Res & Therein

Norton