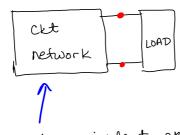
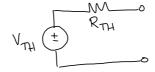
## Equivalent CLts

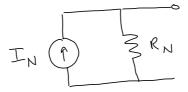


create equivalent cre =7 2 elements

Theuenin Eq. Ckt



Norton Eq. Clut



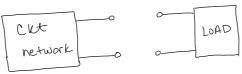
The venin Eq. Cht Steps

- 1 Identify cht network load.
- CKT YL LOAD

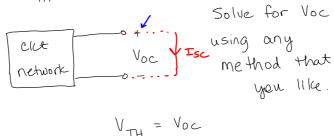
  Network

  RTH

  Moo
- (2) Separate the cut network from the load.  $V_{TH}(\frac{t}{t})$

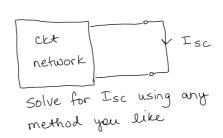


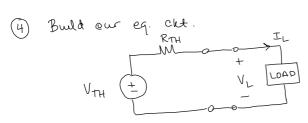
(3) a) Find the  $V_{TH} = V_{OC}$ 

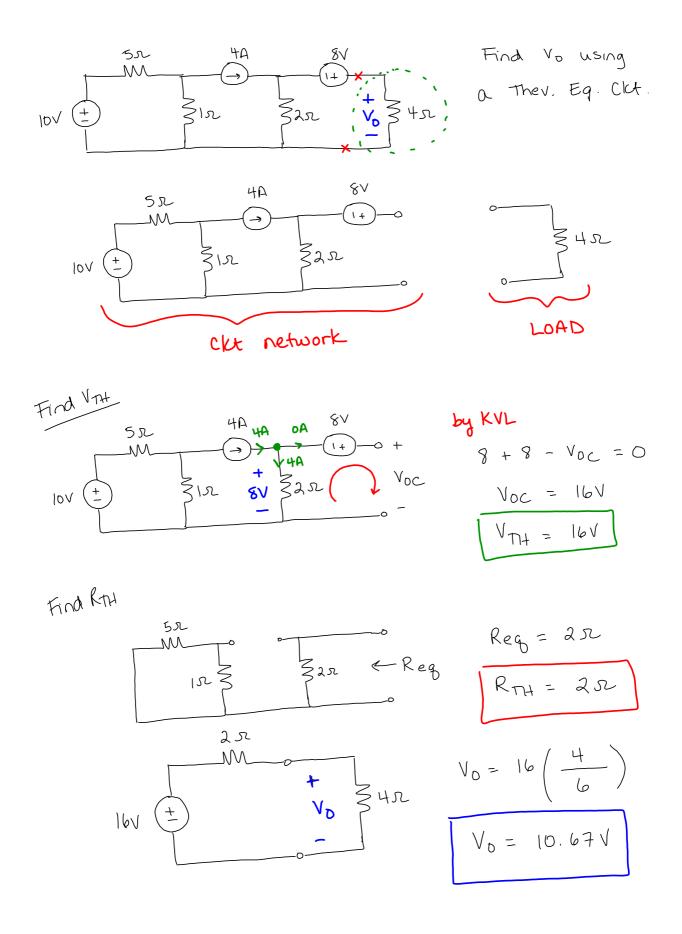


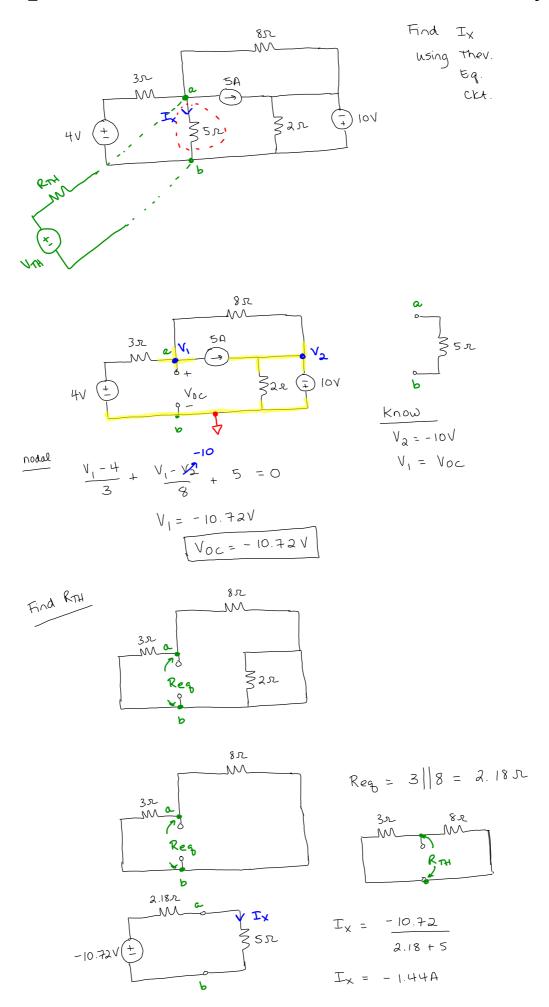
- b) Find RTH
  - 1. Quick method. May be used iff the ckt network contains Zero dependent Sources.
  - · turn off all sources (à la superposition)
  - · left with a retwork of resistors which may be simplified to a single resistor. (Reg)
  - · RTH = Req
- 2. Long Method: may be used for any clut network.

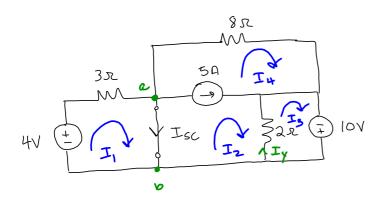
$$R_{TH} = \frac{V_{oc}}{I_{sc}}$$











$$\frac{\text{Know}}{\text{Tsc}} = I_1 - I_2$$
 $I_2 - I_4 = SA$ 
 $I_1 = \frac{4}{3} = 1.33A$ 
 $I_3 - I_2 = 5A$ 
 $I_3 - I_2 = 5$