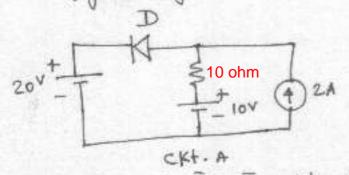
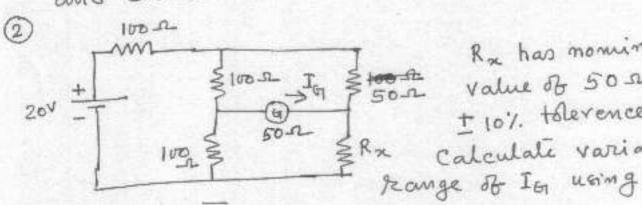
1 Verify Tellegen's Theorem for the following networks.



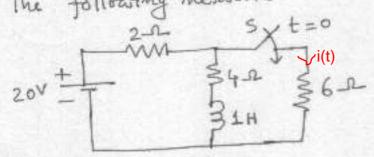
ckt.B Assume both the ckts to be in steady stale and diode D to be ideal.



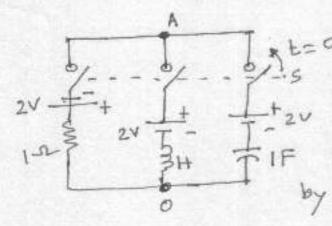
Rx has nominal 502 value of 502 with + 10% tolerence. Calculate variation

compensation theorem.

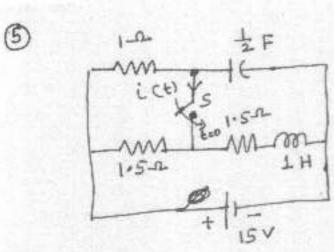
to calculate i(t) in (3) use compensation theorem The following network.



CKt. was in steady state before saitching. Verify your result by solving it using Therenin Theorem .

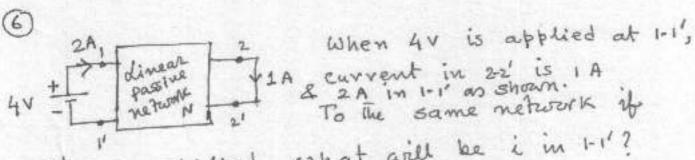


x t=0 Assume zero initial conditions. Tripple pole switch / is closed at t=0. Gret 12 Ao (t) for t>0 by using Millman's meorem

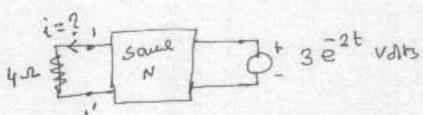


After sis has been reached, s is closed at t=0. Calculate i(t) for t>0 by using (a) Thevenin Theorem.

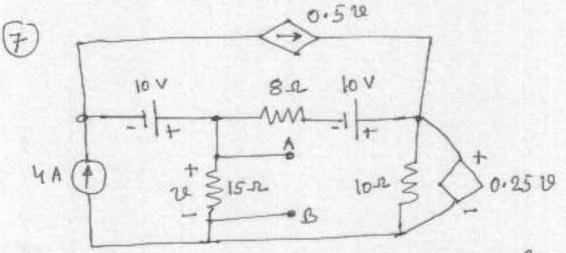
(b) Mesh Analysis.



what will be i in 1-1'?



Apply suitable network theorems to get the result. Make necessary assumptions



- (a) use superposition Theorem to get 12.
- (b) Gret Therenin Equivalent out across AB.