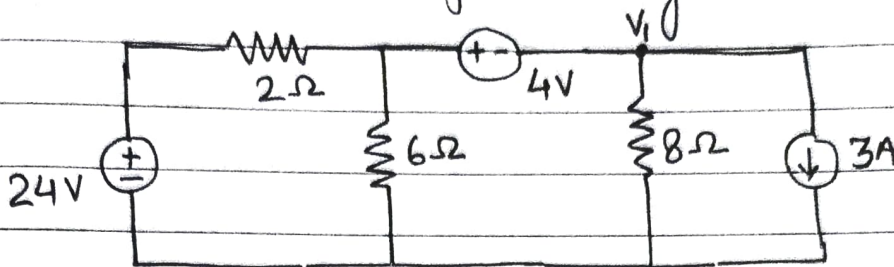


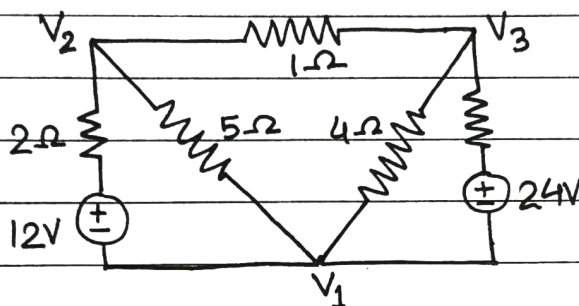
Assignment No. 3

BEE-01/AK/03

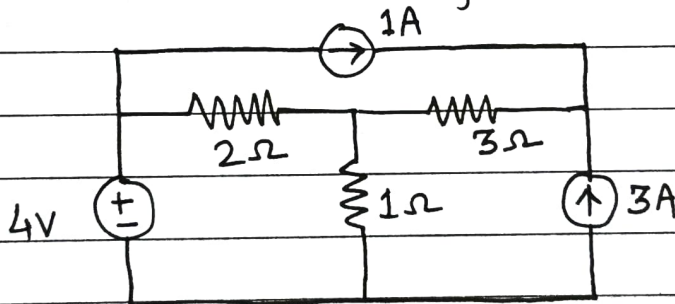
- (1) Determine the value of V_1 using Nodal Analysis.



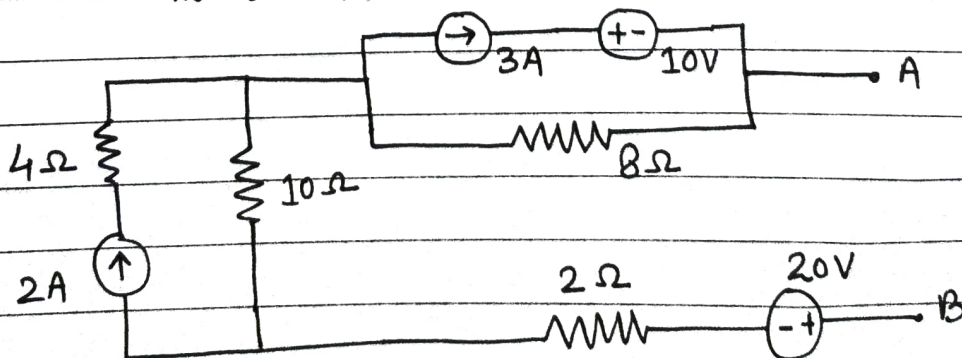
- (2) Determine V_1 using Nodal Analysis.



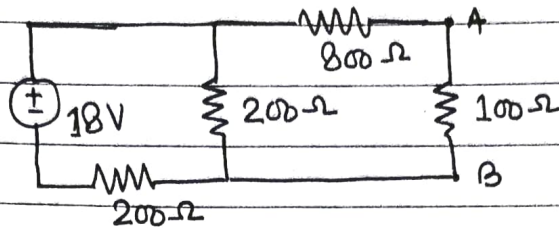
- (3) Using Thevenin's theorem, find current in 1Ω resistance.



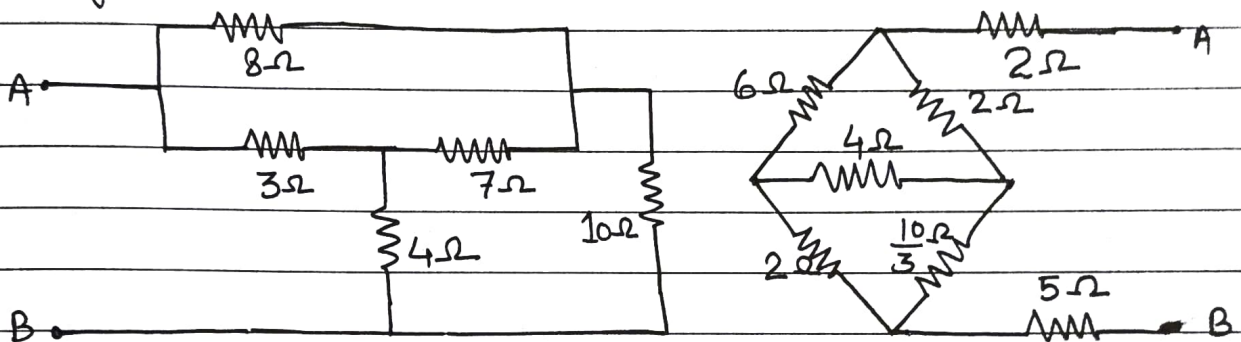
- (4) Calculate V_{th} & R_{th} at the terminals A & B.



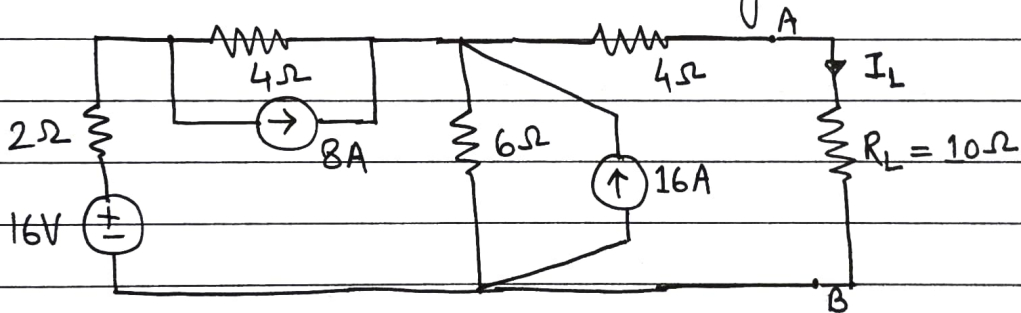
- (5) Using Norton's theorem, find the voltage across $100\ \Omega$ resistance.



- (6) Find the equivalent resistance between terminals A & B using \star/Δ transformations.



- (7) Determine the load current I_L using Thevenin's theorem.



- (8) Determine the current I using Thevenin's theorem. Verify the answer by obtaining I again using Norton's theorem.

