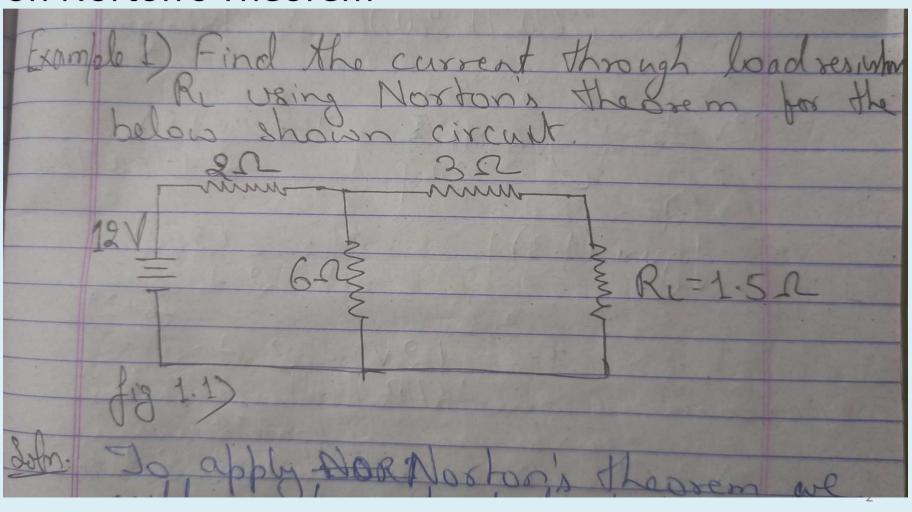
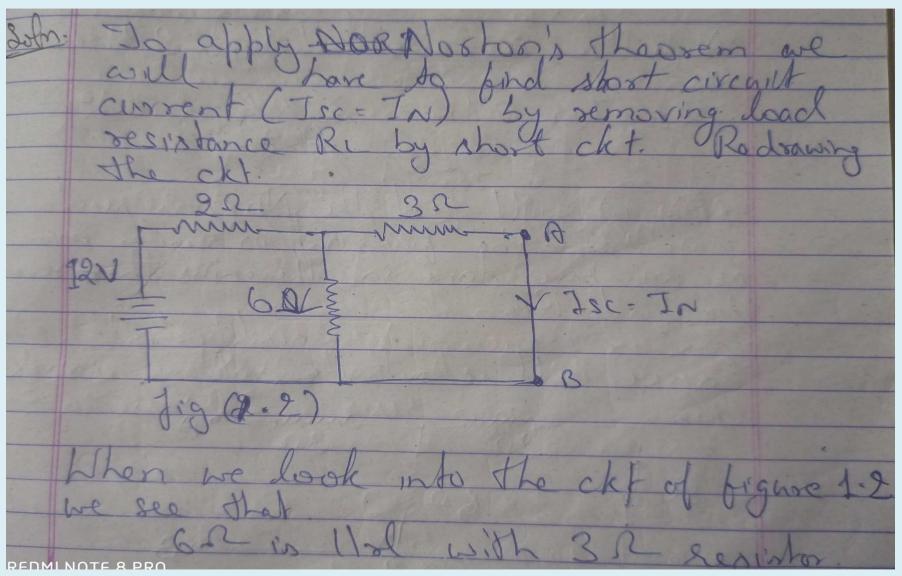
# Paper 1, TDC Part-1 Chapter– 4, Circuit Theorems Lecture - 6

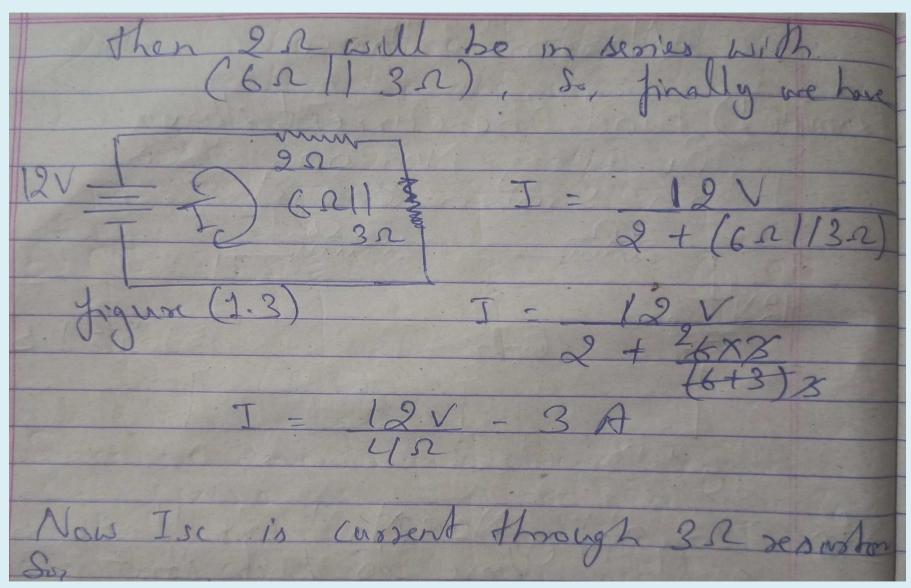
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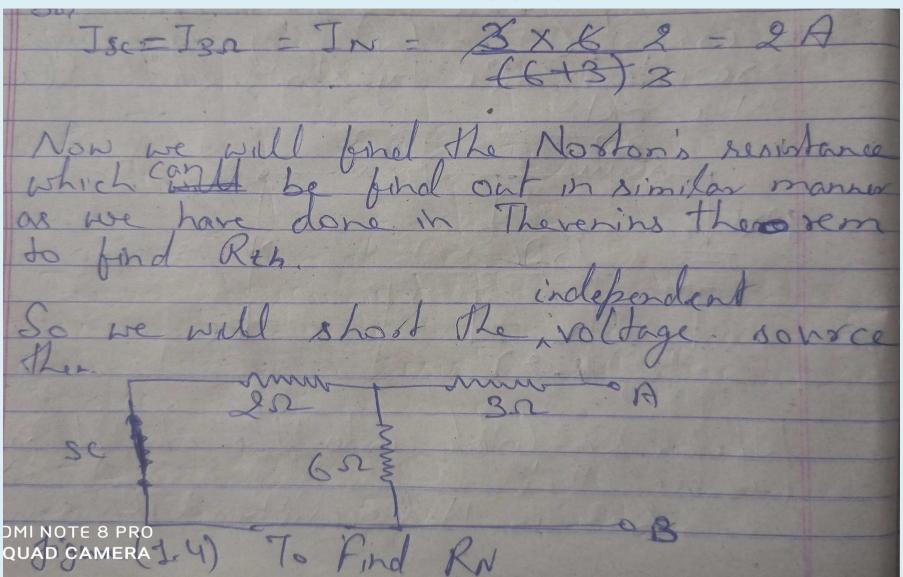
Mayank Mausam
Assistant Professor (Guest Faculty)
Department of Electronics
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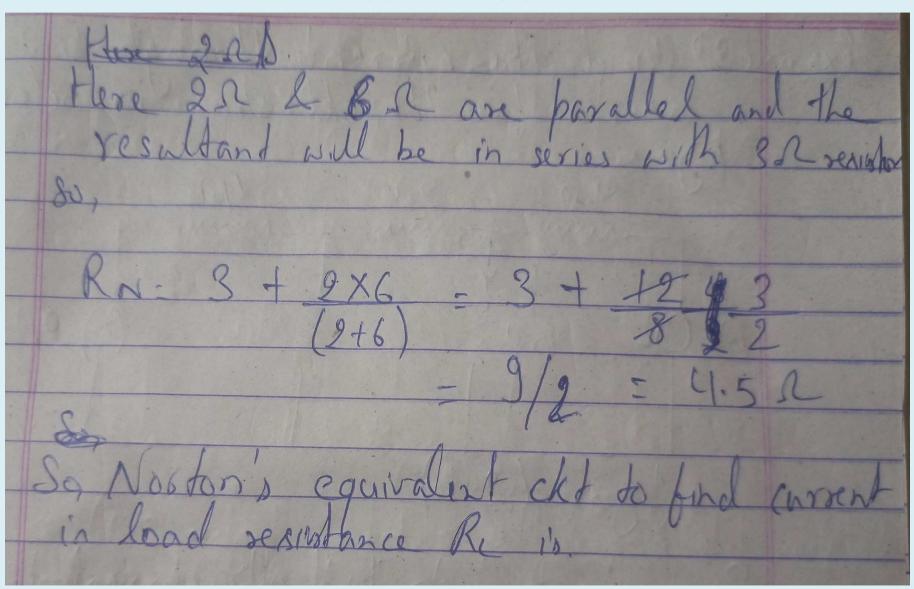
In this lecture we work out some problems based on Norton's Theorem

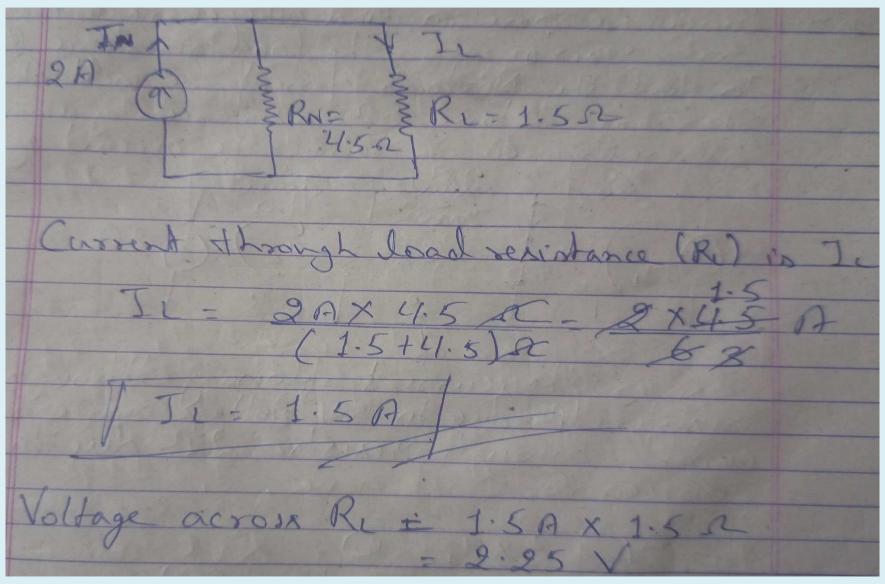


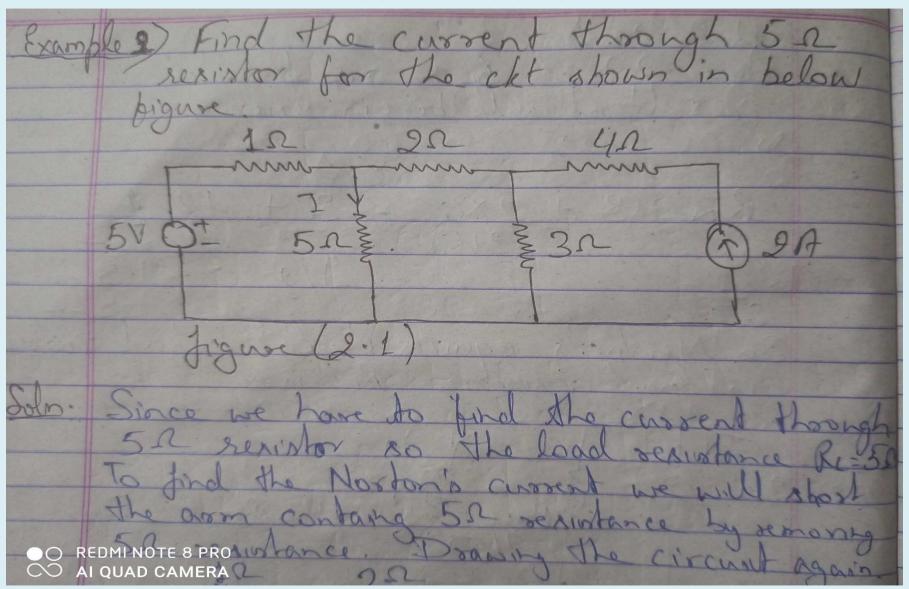


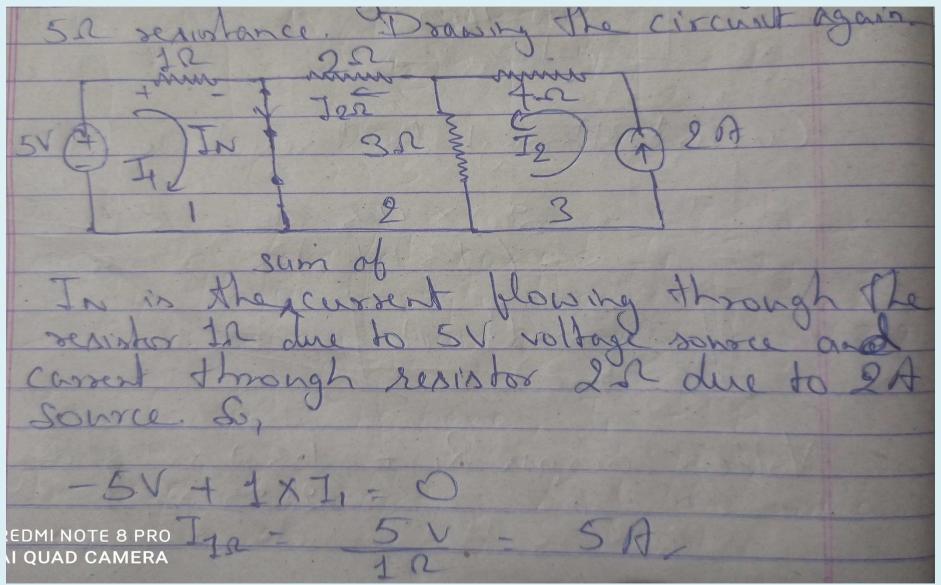


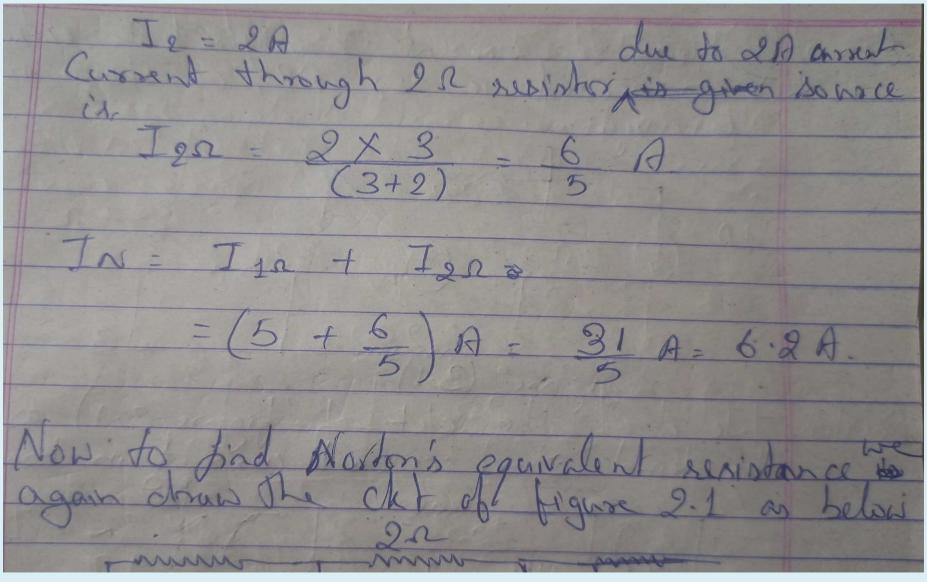


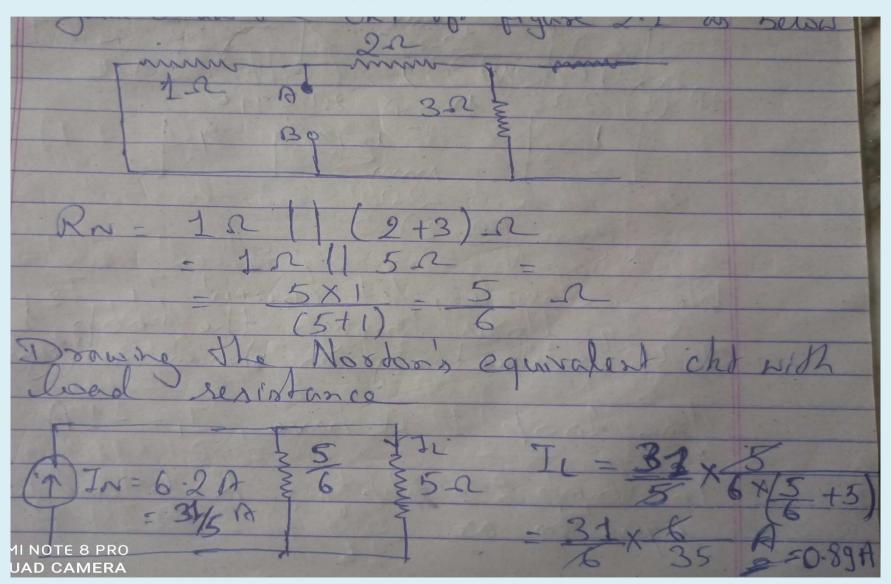


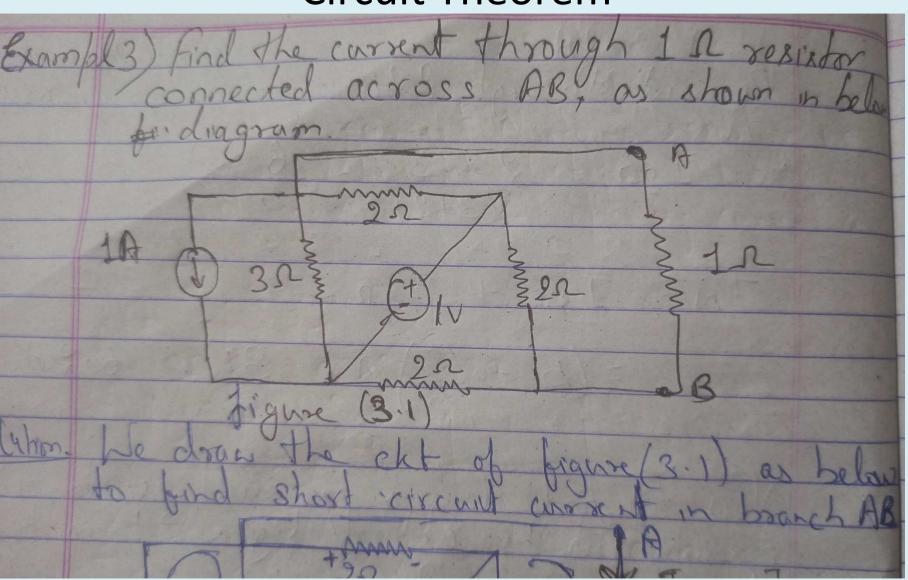


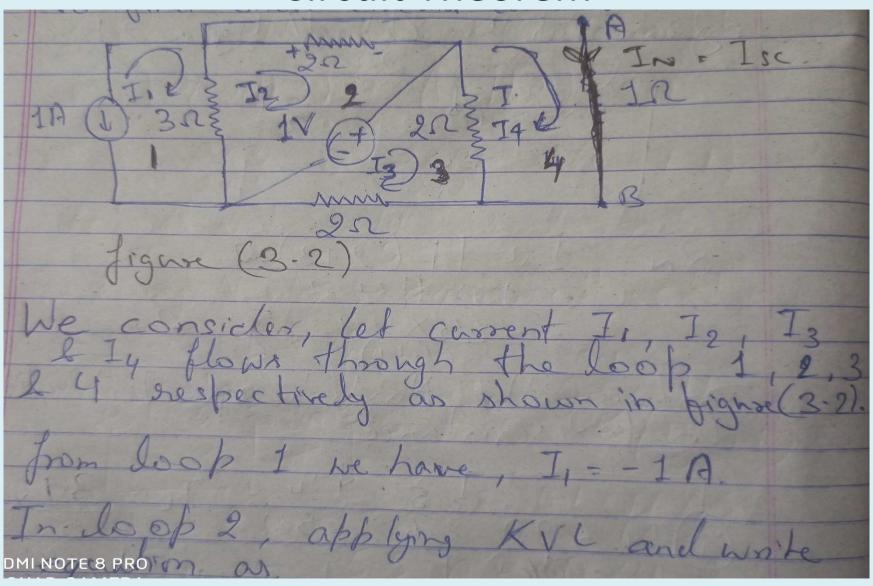


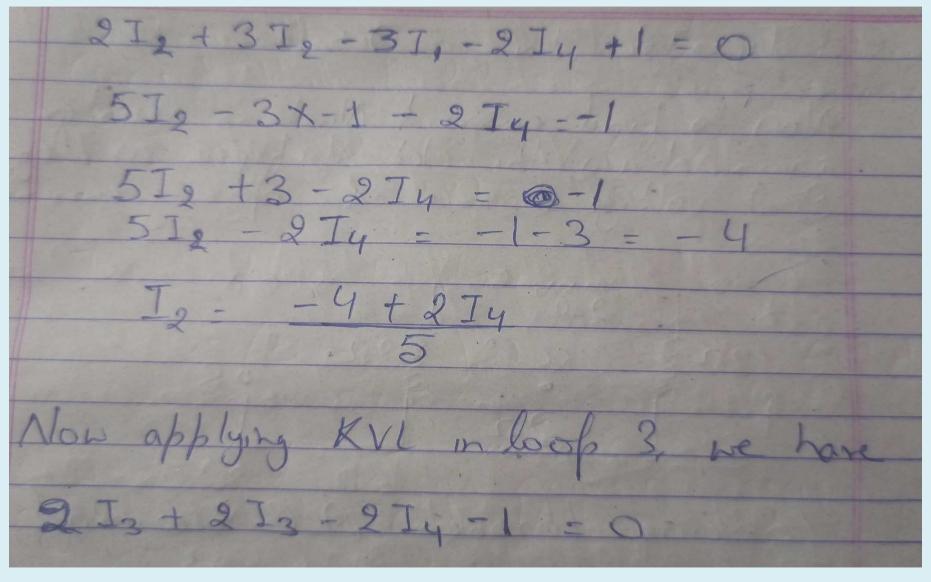


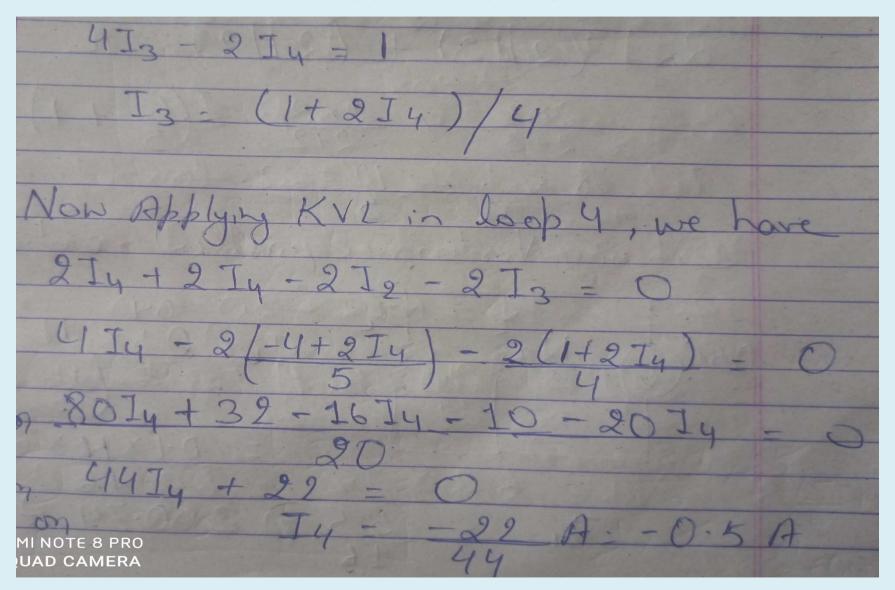


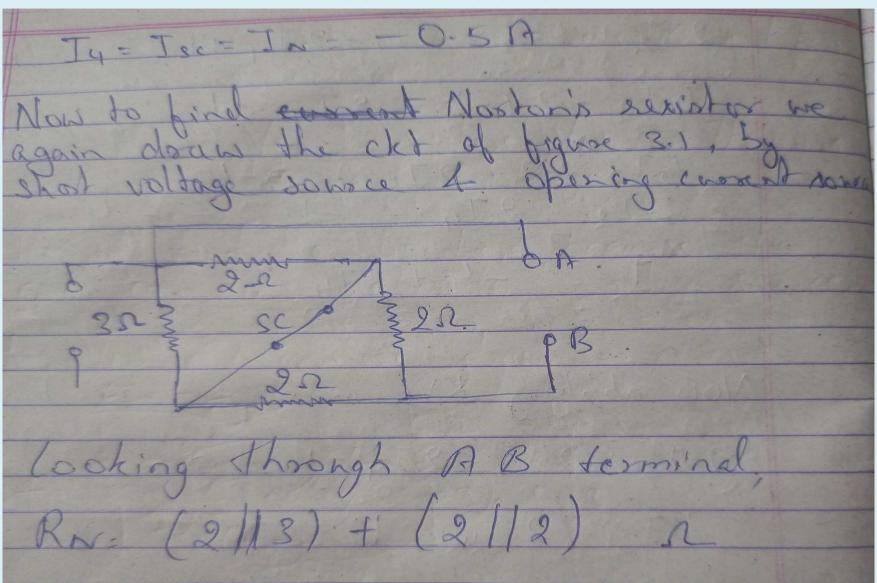


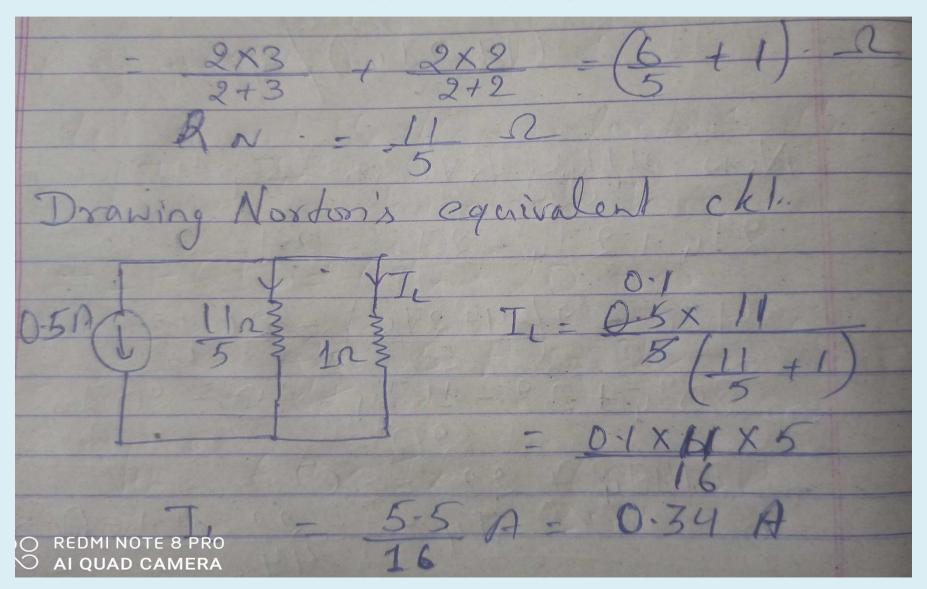


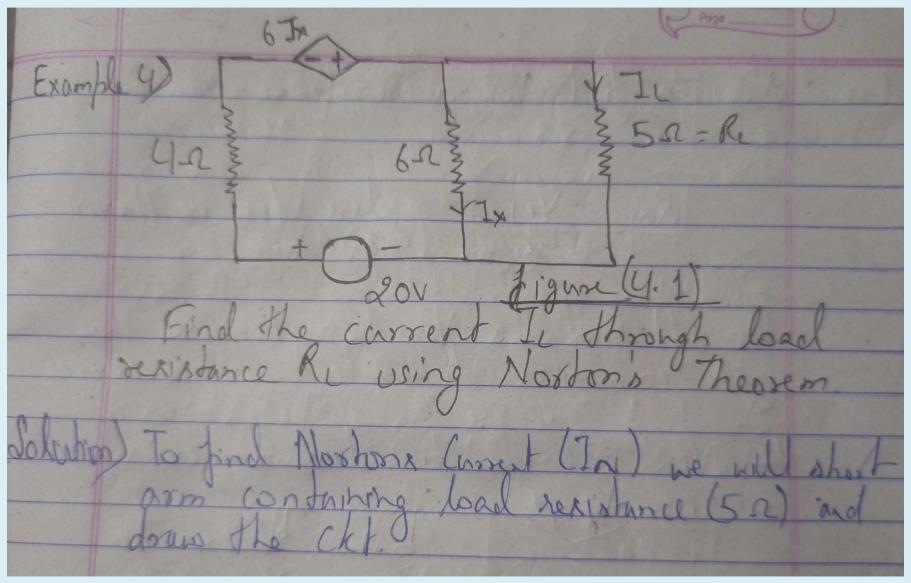


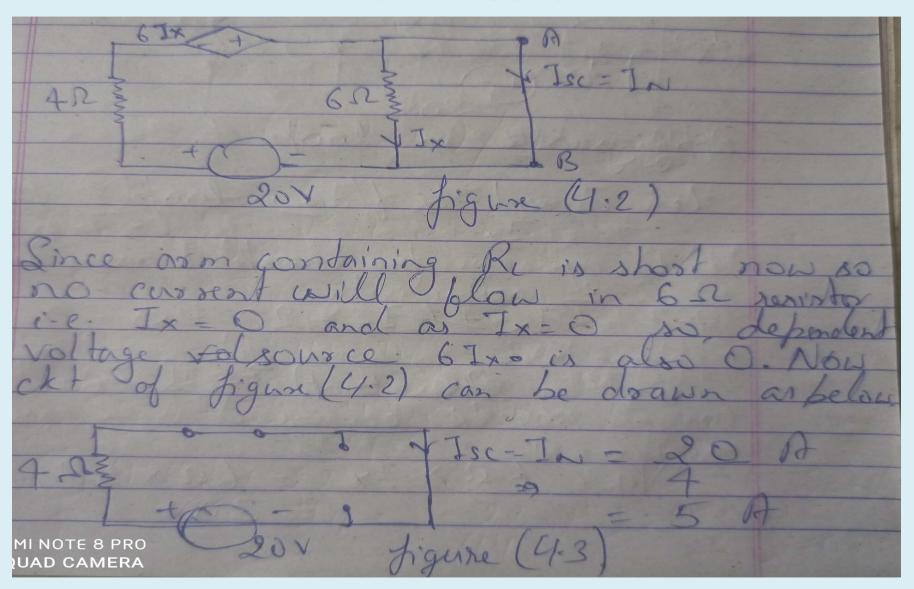


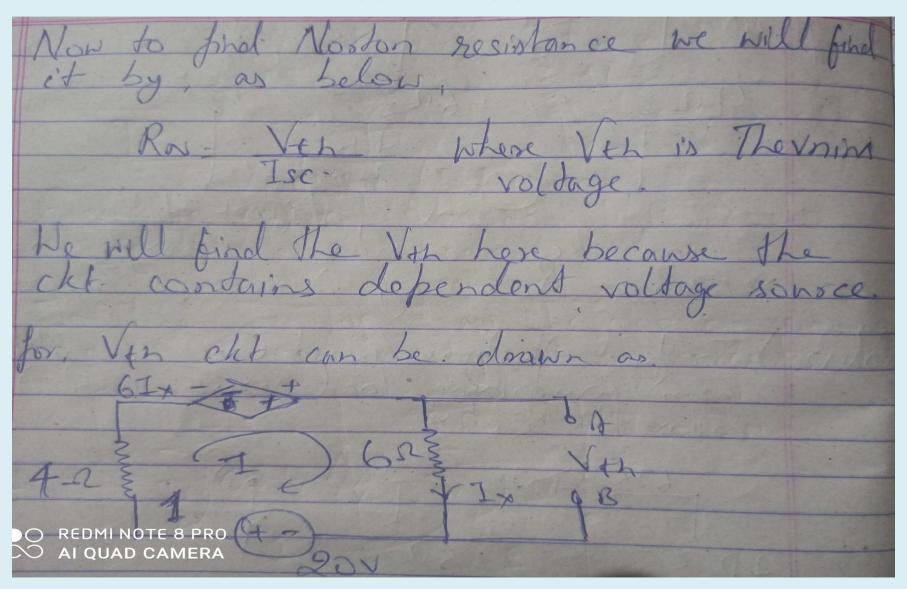


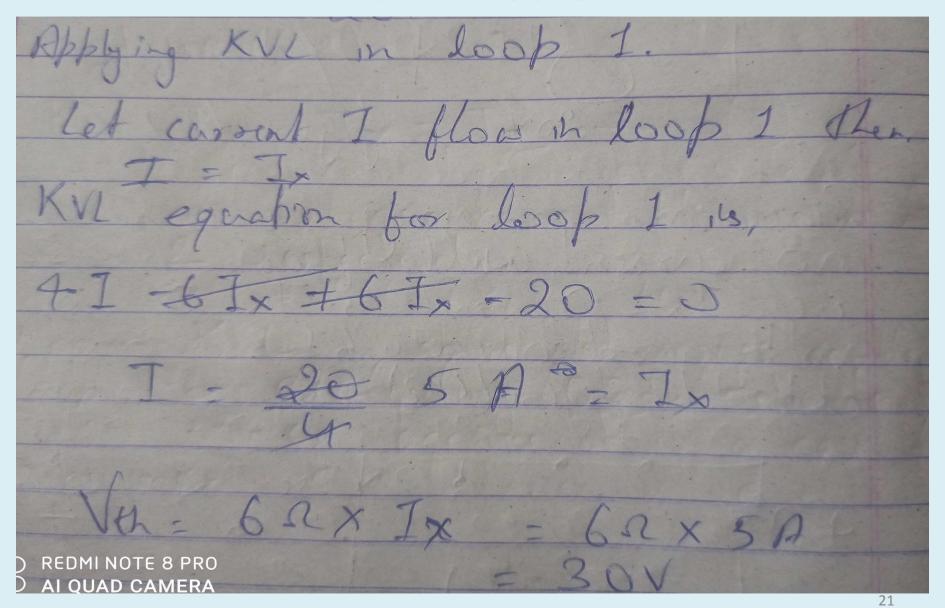


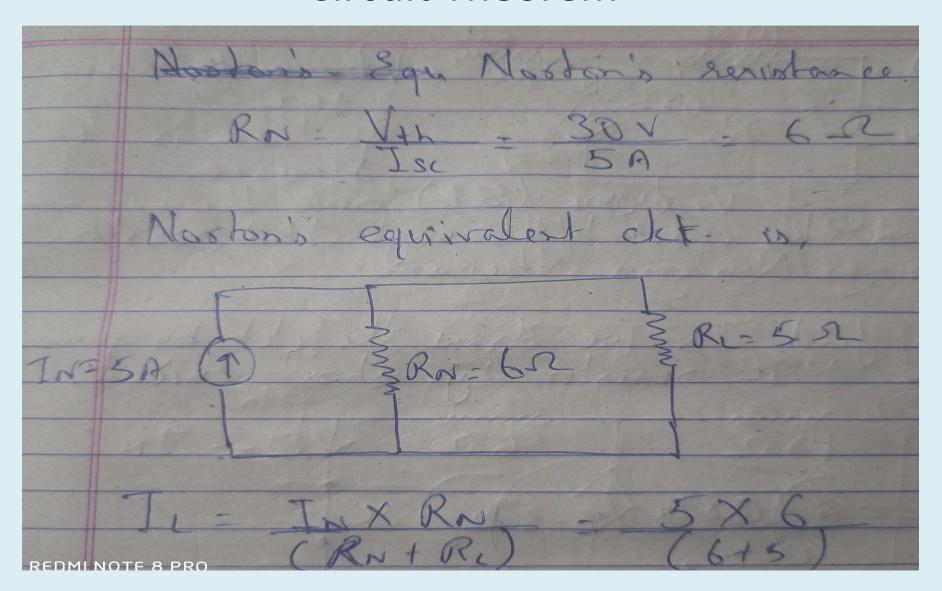


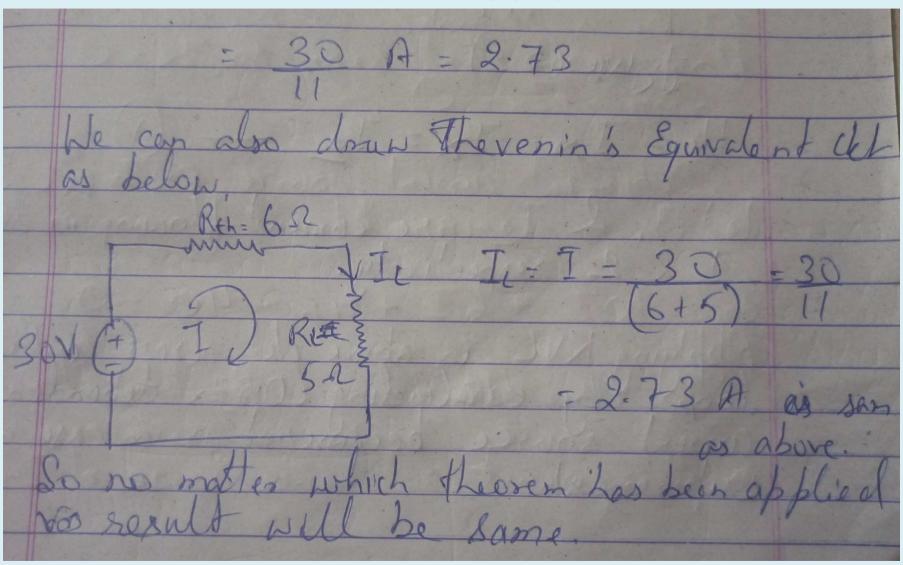


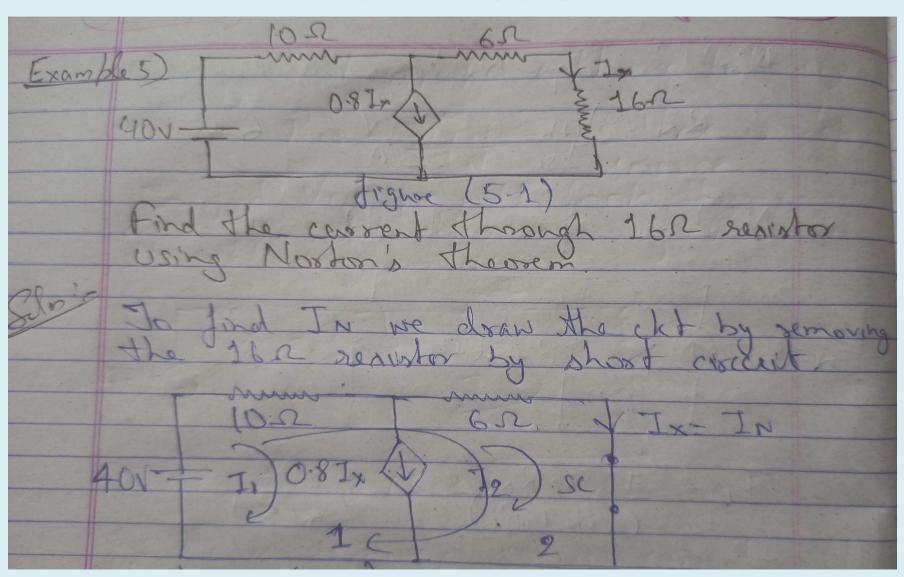


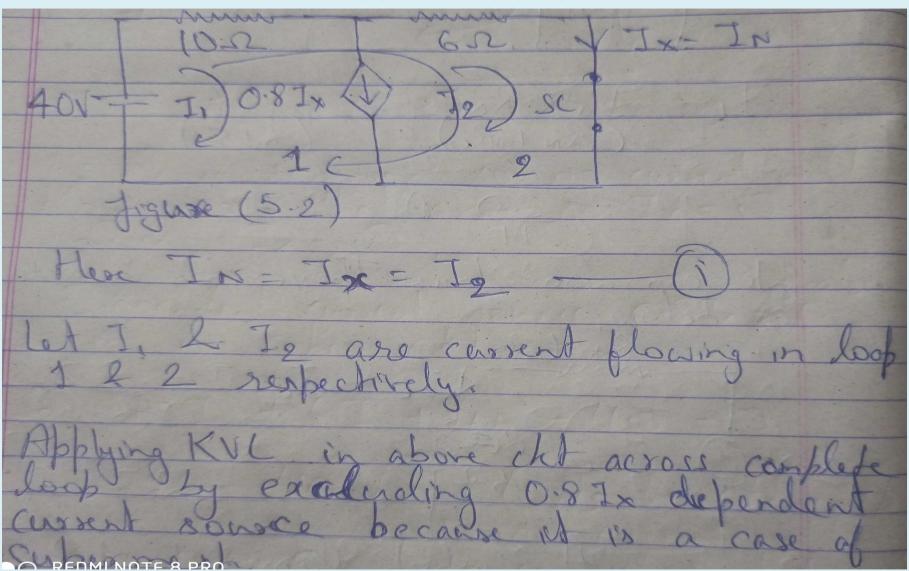


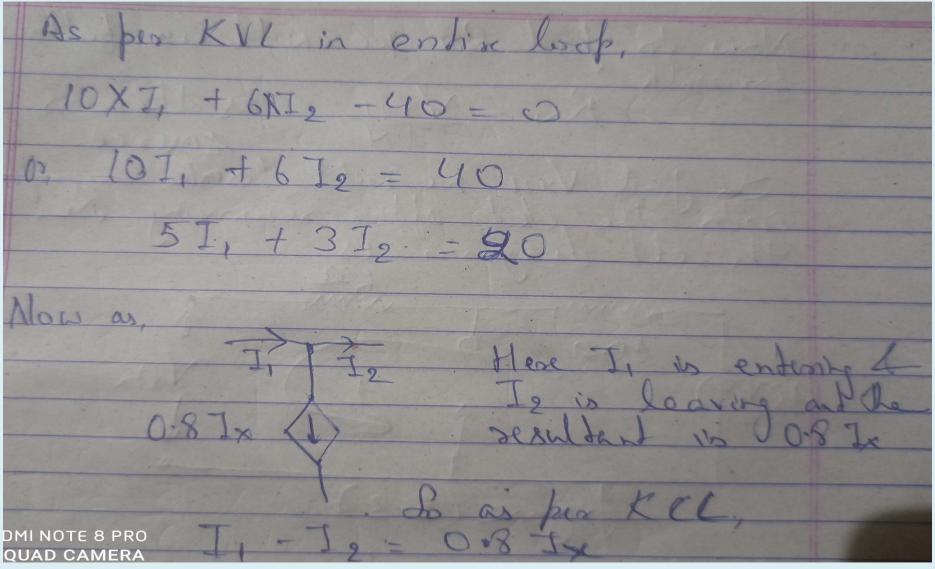


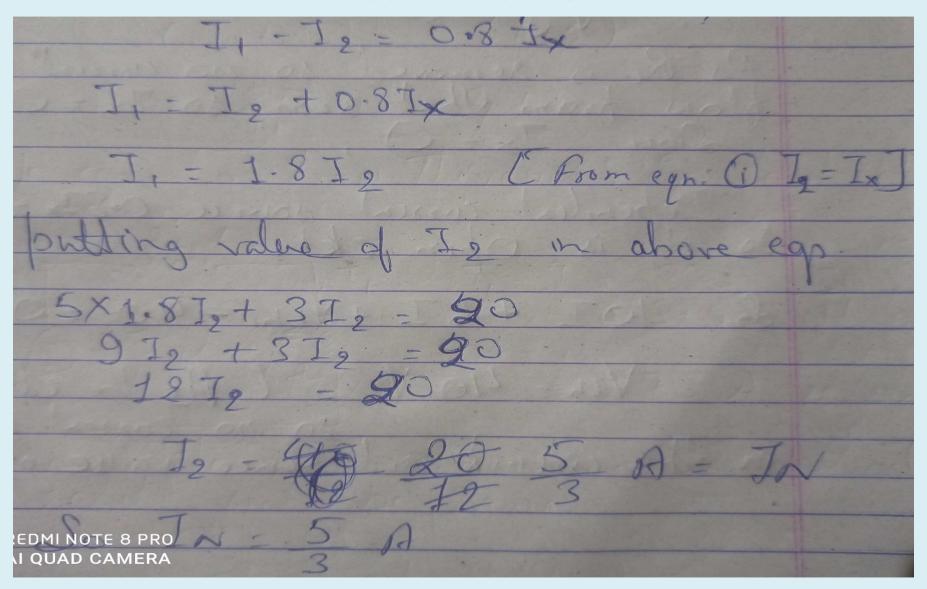


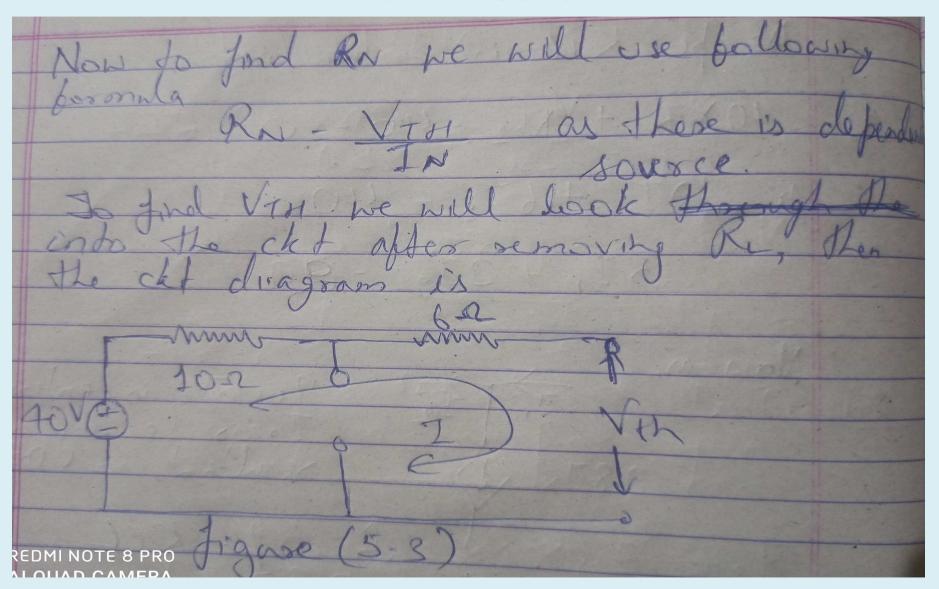


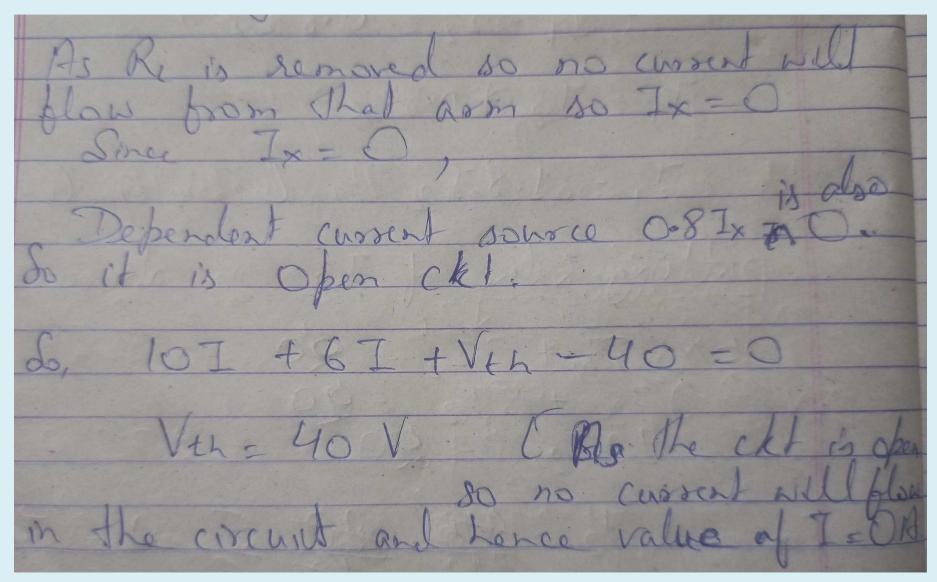


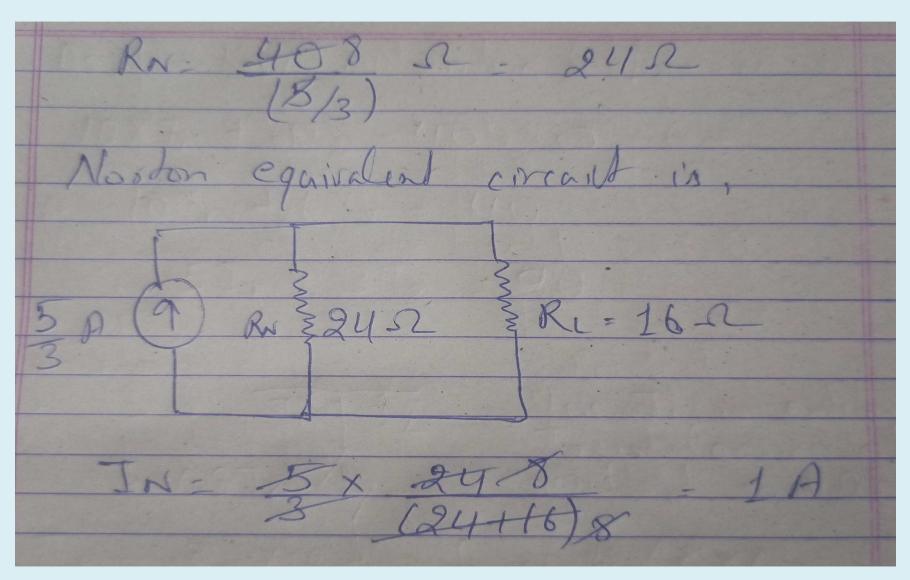


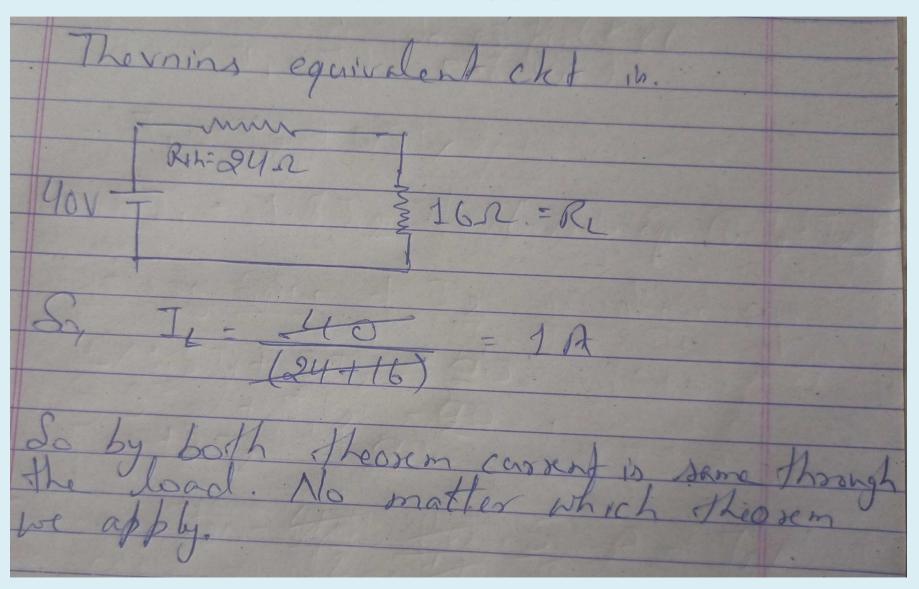












So from these example we can say that a circuit can be analyzed by either Thevenin's theorem or Norton's Theorem. The value of current through and voltage across the load resistor will be same by any of the theorem.

Advantage of Thevenin's theorem or Norton's Theorem over the Superposition theorem is that if the load resistor is varying then we simply replace the load resistor by other load resistor in Thevenin's or Norton's equivalent circuit and find the current and voltage for load resistor. While in case of Superposition we have to analyze entire circuit again if the value of load resistor changes.