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Nodal Analysis -> KCL

simple node → C.D.X principal node → C.D.V

zle de: The common point where two or more elements are connected.

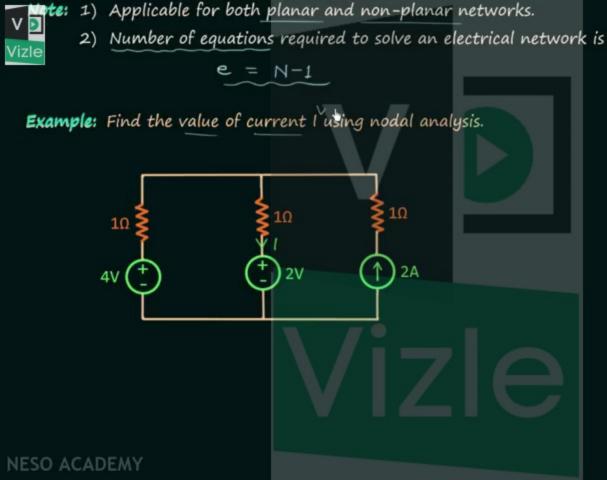
Procedure: 1) Identify the total number of nodes.

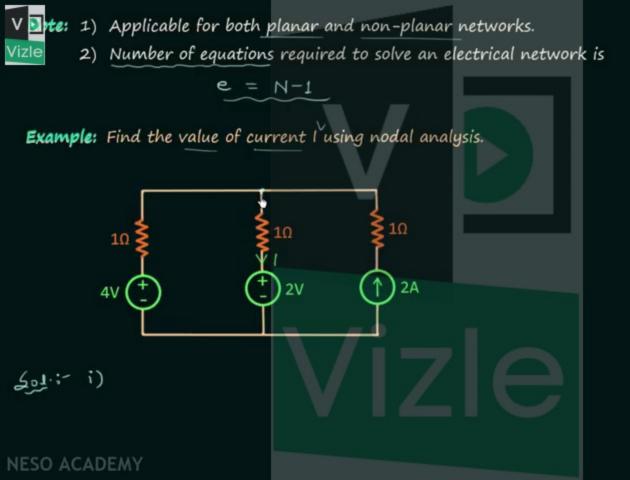
- 2) Assign the voltage at each node. One node is taken as reference node (datum).
- 3) Develop the KCL equation for each non-reference node.
- 4) Solve the KCL equations to get the node voltage.

Note: 1) Applicable for both planar and non-planar networks.

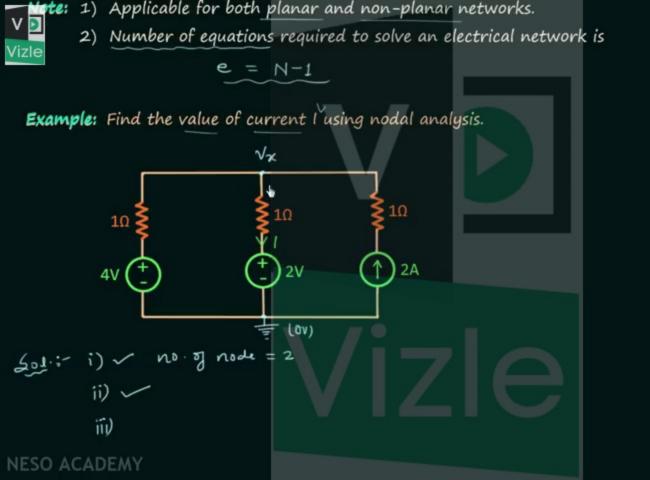
2) Number of equations required to solve an electrical network is

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NESO ACADEMY



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