

Circuits II

EE221

Unit 2

Instructor: Kevin D. Donohue

Review: Impedance Circuit Analysis with nodal, mesh, superposition, source transformation, equivalent circuits and SPICE analyses.

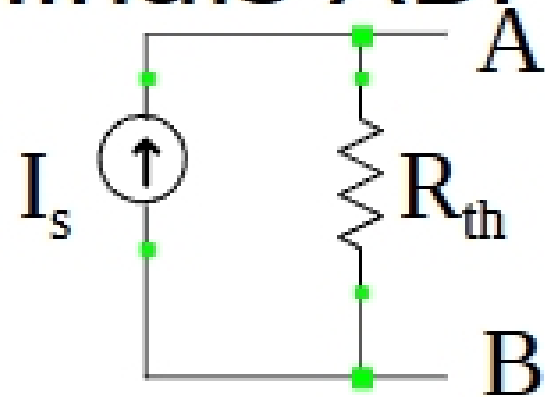
Equivalent Circuits

- Circuits containing different elements are equivalent with respect to a pair of terminals, if and only if their voltage and current draw for any load is identical.
- More complex circuits are often reduced to Thévenin and Norton equivalent circuits.

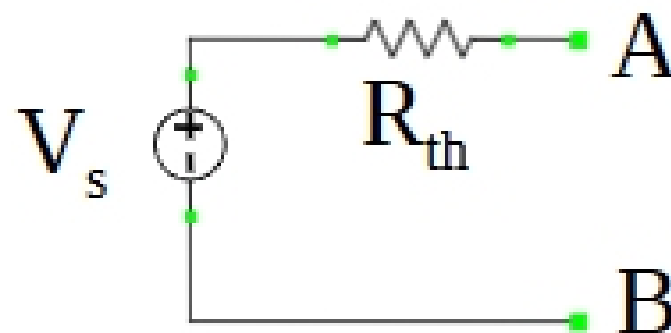
Equivalent Circuit (Example)

Find and compare the voltages and currents generated in 3 of the following loads across terminals AB:

- open circuit
- resistance R_L
- short circuit



Norton



Thévenin