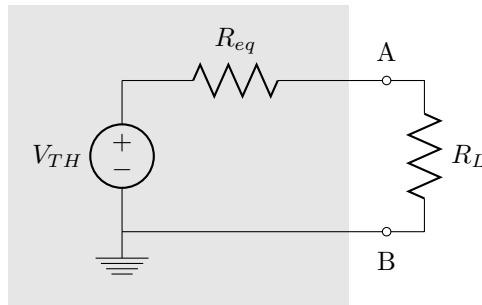


1. Thevenin's Equivalent circuit

- Remove the portion of the network across which you want to find the equivalent circuit.
- Label those two terminals.
- Calculate R_{eq} by replacing voltage sources with a short circuit and current sources with an open circuit.
- Calculate V_{TH} by inserting back all the sources to their original state then finding the open-circuit voltage between the marked terminal. Draw your circuit as shown below.



2. Norton Equivalent

- Remove the portion of the network across which you want to find the equivalent circuit.
- Label those two terminals.
- Calculate R_{eq} by replacing voltage sources with a short circuit and current sources with an open circuit.
- Calculate I_N by inserting back all the sources to their original state then finding the short-circuit current between the marked terminal. Draw your circuit as shown below.

