

Circuit with no series or parallel resistors.

We don't do these.

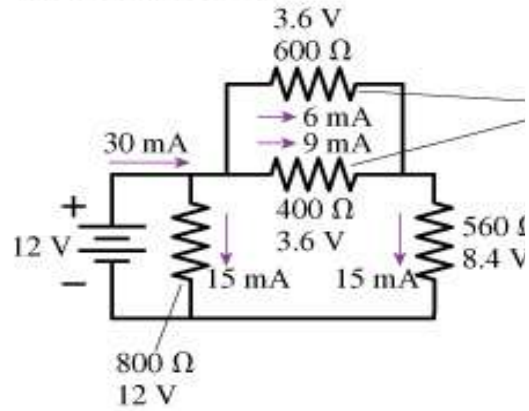
Simplifying Complex Circuits

- Identify nodes, common nodes, branches, & shorts
- If a branch has more than one resistor, replace with R_s , redraw circuit
- If there are parallel resistors (nothing but one resistor in each branch), replace with R_p & redraw circuit.
- Stop when you get to a single resistance.

Simplifying Complex Circuits

- Work back up diagrams
- If current resistor is a Series replacement, each resistor has same current. Use $V = IR$ to get voltage for each.
- If current resistor is a Parallel replacement, each resistor has same voltage. Use $I = V/R$ to get current for each.

(b) Rebuild the circuit



(b) Rebuild the circuit

