

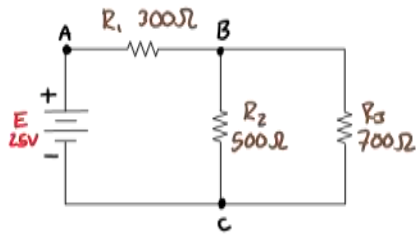
## Series-Parallel DC Circuit Properties

List fundamental series circuit properties.

List fundamental parallel circuit properties.

List two points of general advice regarding series-parallel circuit analysis.

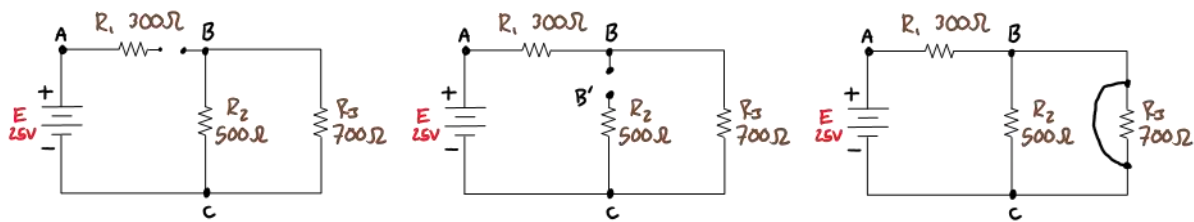
Perform a Kirchhoff's Voltage Law and Kirchhoff's Current Law analysis of this circuit and recommend a manner of simplifying this circuit into a pure series or pure parallel simplification.



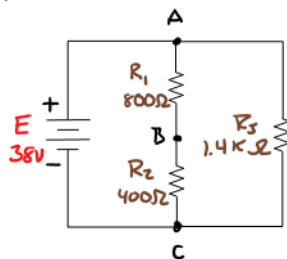
Perform an analysis of the simplified circuit. Map the results of the simplification back to the original series-parallel circuit. Recommend a way of checking your work.

Summarize the implications of opens and shorts in series and parallel circuits. Discuss the implications of opens and shorts in series-parallel circuits.

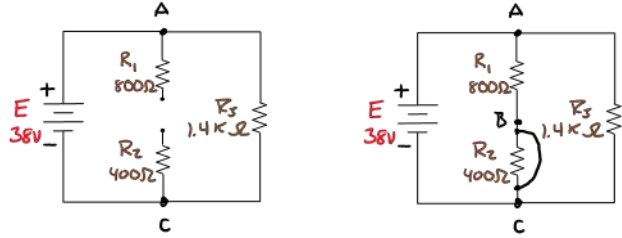
Identify how the inclusion of these opens and shorts in the original series-parallel circuit affect electrical properties in this system.



Determine the electrical properties for individual elements inside this series-parallel DC circuit. Check your work.



Identify how the inclusion of these opens and shorts in the original series-parallel circuit affect electrical properties in this system.



Determine the electrical properties for individual elements inside this series-parallel DC circuit. Check your work. Determine the nodal voltages with respect to ground.

