Find the number of branches $b$, nodes $n$, and independent loops $l$ in the circuit of problem 2.34.

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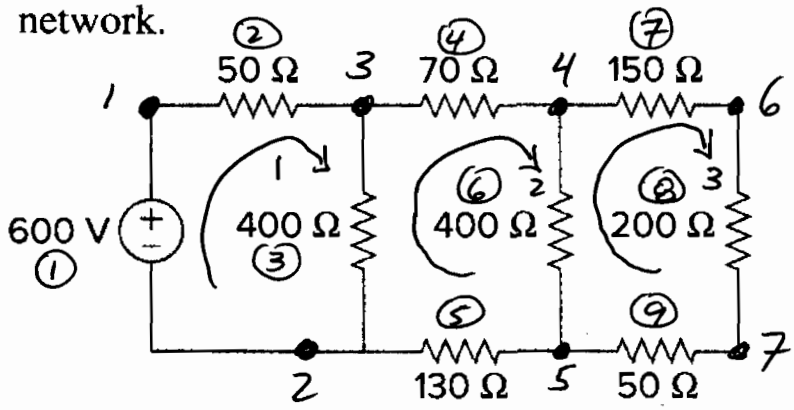
**2.34** Using series/parallel resistance combination, find the equivalent resistance seen by the source in the circuit. Find the overall absorbed power by the resistor network.




(i) # branches = $b = 9$

- # nodes = $n = 7$

# independent loops = $l = 3$

Check answers using (2.12)

$$b = l + n - 1$$

$$9 \stackrel{?}{=} 3 + 7 - 1$$

$9 = 9$ ∴ checks out!