EECE202 Network Analysis I   **Dr. Charles J. Kim**
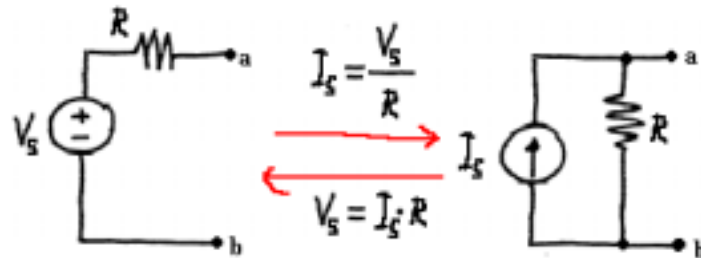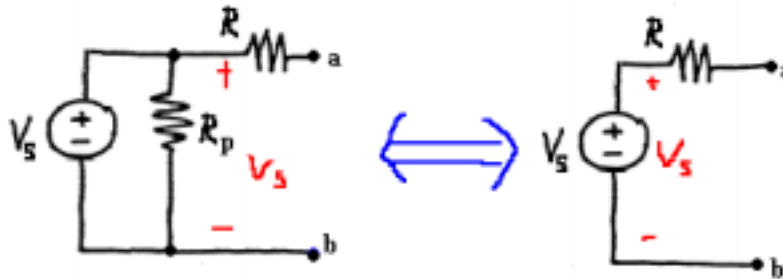
Class note 17: Source Transformation

1. "Source Transformation" is a tool for circuit simplification.

2. "A voltage source in series with a resistor" $\Leftrightarrow$ "A current source in parallel with the same resistor"
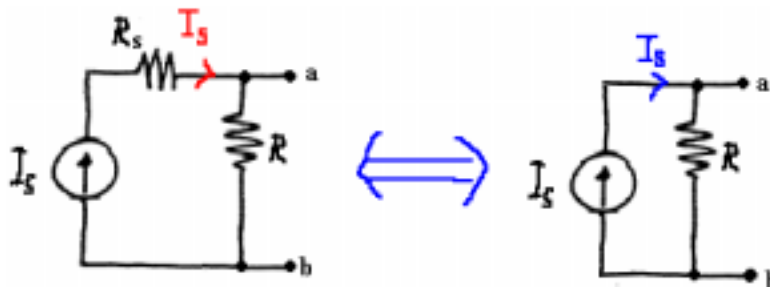

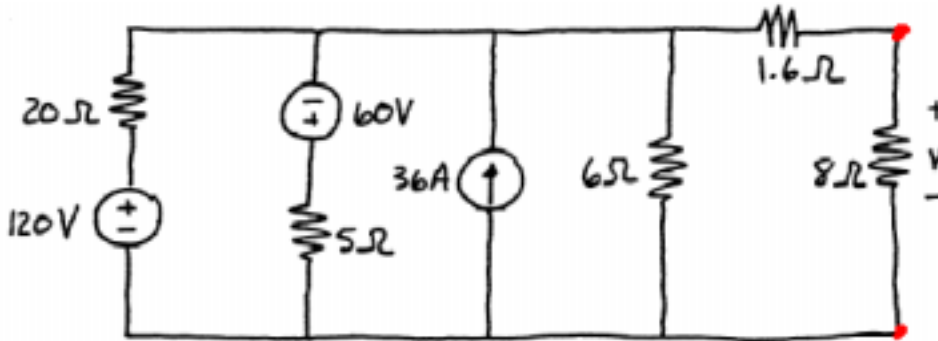3. Special cases in source transformation:

   (a) A parallel resistor with a voltage source has no effect on the voltage.

   (b) A series resistor with a current source has no effect on the current.
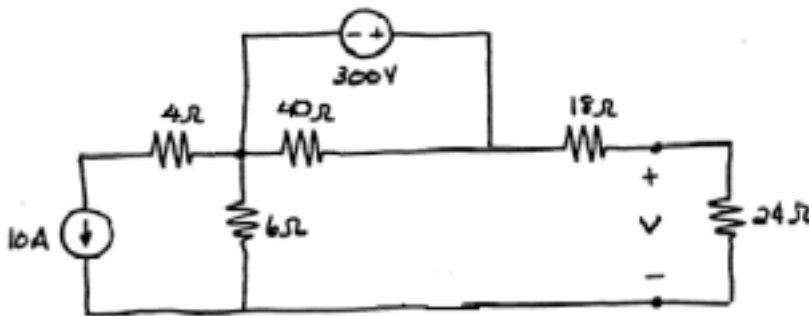
4. Example 1: Find V from the circuit using a series of source transformations.

SOLUTION

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5. Example 2: (Does this include a special case of source transformation): Find V by applying a series of source transformations.

SOLUTION

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