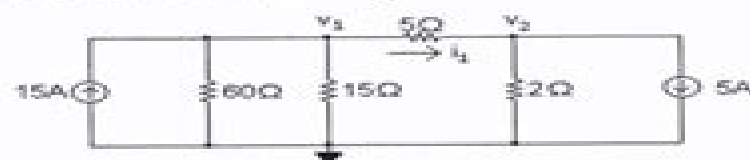


Techniques of Circuit Analysis

Assessment Problems

AP 4.1 [a] Redraw the circuit, labeling the reference node and the two node voltages:



The two node voltage equations are

$$-15 + \frac{v_1}{60} + \frac{v_1}{15} + \frac{v_1 - v_2}{5} = 0$$

$$5 + \frac{v_2}{2} + \frac{v_2 - v_1}{5} = 0$$

Place these equations in standard form:

$$v_1 \left(\frac{1}{60} + \frac{1}{15} + \frac{1}{5} \right) + v_2 \left(-\frac{1}{5} \right) = 15$$

$$v_1 \left(-\frac{1}{5} \right) + v_2 \left(\frac{1}{2} + \frac{1}{5} \right) = -5$$

Solving, $v_1 = 60$ V and $v_2 = 10$ V;

Therefore, $i_1 = (v_1 - v_2)/5 = 10$ A

[b] $p_{15A} = -(15 \text{ A})v_1 = -(15 \text{ A})(60 \text{ V}) = -900 \text{ W} = 900 \text{ W}(\text{delivered})$

[c] $p_{5A} = (5 \text{ A})v_2 = (5 \text{ A})(10 \text{ V}) = 50 \text{ W} = -50 \text{ W}(\text{delivered})$



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