

**Analysis:**

Use KCL at all the nodes:

$$\frac{V_a - V_b}{R_1} - I_1 - \frac{V_a - V_b}{R_2} = 0 \text{ Node 1}$$

$$\frac{V_a - V_b}{R_2} + I_1 - \frac{V_b}{R_3} - \frac{V_b - -V_2}{R_4} = 0 \text{ Node 2}$$

Substitute known values and collect coefficients:

$$-0.35 + V_a + 0.25 + V_b = 1.8 \text{ Node 1}$$

$$0.25 + V_a - \frac{7}{12} + V_b = -1.33 \text{ Node 2}$$

Solve:

$$V_a = -5.06V \quad V_b = 0.117V$$

**Problem 3.12**

Find the power delivered to the load resistor  $R_L$  for the circuit of Figure P3.12, using node voltage analysis, given that  $R_1 = 2\Omega$ ,  $R_2 = R_3 = R_4 = 4\Omega$ ,  $V_1 = 4\text{ V}$ , and  $I_1 = 0.5\text{ A}$ .

**Solution:****Known quantities:**

Circuit shown in Figure P3.12.

**Find:**

Power delivered to the load resistance.

**Analysis:**

Add node  $V_1$  between the voltage source and its resistance,  $R_1$ . Also, add the current  $i$  that flows through the voltage source. Choose the negative terminal of  $V_1$  as the ground (reference) node.

KCL at node 1:

$$-0.5 + \frac{V_1}{R_1} + \frac{V_1 - V_2}{R_2} = 0 \quad (\text{Eq. 1})$$

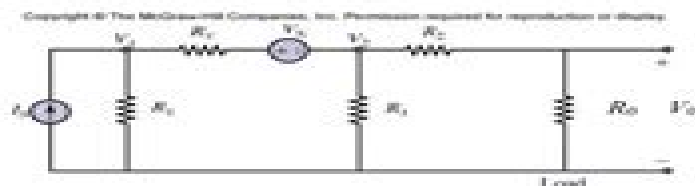
KCL at node 2:

$$-i + \frac{V_2}{R_3} + \frac{V_2 - V_0}{R_4} = 0 \quad (\text{Eq. 2})$$

KCL at node 3:

$$\frac{V_3 - V_1}{R_4} + i = 0 \quad (\text{Eq. 3})$$

KCL at node 0:



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**Charles K. Alexander, Matthew N. O.  
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