G. Rizzoni, Principles and Applications of Electrical Engineering, 5th Edition Problem solutions, Chapter 3

Collect coefficients:

$$18 * i_4 - 6 * i_8 = 4 \text{ Mesh } 1$$
  
 $6 * i_4 - 16 * i_8 = 1 \text{ Mesh } 2$ 

Solve set of equations:

$$t_A = \frac{29}{126}A = 230 \text{mA}$$

$$t_{dr} = \frac{1}{42} A = 23.8 \text{msA}$$

Find Vac

$$V_{st} = (i_A - i_B) * R_2 = \frac{26}{21} 1.24 \text{V}$$

#### Problem 3.9

Use nodal analysis in the circuit of Figure P3.9 to find V1, V2, and V3. Let R1 =  $10\Omega$ , R2 =  $8\Omega$ , R3 =  $10\Omega$ , R4 = 5, is = 2A, Vs = 1V.

#### Solution:

#### Known quantities:

Circuit shown in Figure P3.9 with known source voltages and resistances.

#### Find:

The voltages V1, V2, V3.

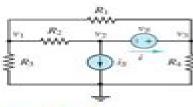


Figure P3.9

#### Analysis:

Use KCL at all the nodes:

$$\begin{split} \frac{V_3-V_1}{R_1} - \frac{V_1-0}{R_3} - \frac{V_1-V_2}{R_2} &= 0 \; \textit{Node} \; 1 \\ \frac{V_1-V_2}{R_2} - i_s - i &= 0 \; \textit{Node} \; 2 \\ i - \frac{V_3-V_2}{R_1} - \frac{V_2}{R_4} &= 0 \; \textit{Node} \; 3 \\ V_3-V_2 &= 1 \; \textit{Known Voltage} \end{split}$$

Enter coefficients into matrix:

$$V_1$$
  $V_2$   $V_3$   $i$   $X$   
 $-0.325$   $1/8$   $1/10$   $0$   $0$   
 $1/8$   $-1/8$   $0$   $-1$   $2$   
 $1/10$   $0$   $-0.3$   $1$   $0$   
 $0$   $-1$   $1$   $0$   $1$ 

Sedimen

$$V_1 = -5.43V$$
  $V_2 = -8.29V$   $V_3 = -7.29V$ 

1. (8)

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