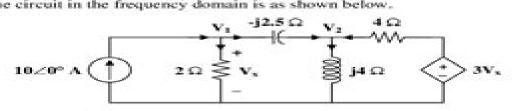
#### CHAPTER 10

P.P.10.1 
$$10 \sin(2t) \longrightarrow 10 \angle 0^{\circ}, \quad \omega = 2$$
  
 $2 \text{ H} \longrightarrow \text{j} \omega \text{L} = \text{j} 4$   
 $0.2 \text{ F} \longrightarrow \frac{1}{\text{j} \omega \text{C}} = \text{-j} 2.5$ 

Hence, the circuit in the frequency domain is as shown below.



At node 1, 
$$10 = \frac{\mathbf{V}_1}{2} + \frac{\mathbf{V}_1 - \mathbf{V}_2}{-j2.5}$$
  
 $100 = (5 + j4)\mathbf{V}_1 - j4\mathbf{V}_2$  (1)

At node 2, 
$$\frac{\mathbf{V}_{2}}{j4} = \frac{\mathbf{V}_{1} - \mathbf{V}_{2}}{-j2.5} + \frac{3\mathbf{V}_{x} - \mathbf{V}_{2}}{4} \quad \text{where } \mathbf{V}_{x} = \mathbf{V}_{1}$$
$$-j2.5\mathbf{V}_{2} = j4(\mathbf{V}_{1} - \mathbf{V}_{2}) + 2.5(3\mathbf{V}_{1} - \mathbf{V}_{2})$$
$$0 = -(7.5 + j4)\mathbf{V}_{1} + (2.5 + j1.5)\mathbf{V}_{2}$$
(2)

Put (1) and (2) in matrix form.
$$\begin{bmatrix} 5 + j4 & -j4 \\ -(7.5 + j4) & 2.5 + j1.5 \end{bmatrix} \begin{bmatrix} \mathbf{V}_1 \\ \mathbf{V}_2 \end{bmatrix} = \begin{bmatrix} 100 \\ 0 \end{bmatrix}$$

where  $\Delta = (5 + j4)(2.5 + j15) - (-j4)(-(7.5 + j4)) = 22.5 - j12.5 = 25.74 \angle - 29.05^{\circ}$ 

$$\begin{bmatrix} \mathbf{V}_1 \\ \mathbf{V}_2 \end{bmatrix} = \frac{\begin{bmatrix} 2.5 + j1.5 & j4 \\ 7.5 + j4 & 5 + j4 \end{bmatrix}}{22.5 - j12.5} \begin{bmatrix} 100 \\ 0 \end{bmatrix}$$

$$\mathbf{V}_1 = \frac{2.5 + j1.5}{22.5 - j12.5} (100) = \frac{2.915 \angle 30.96^{\circ}}{25.74 \angle - 29.05^{\circ}} (100) = 11.32 \angle 60.01^{\circ}$$

$$\mathbf{V}_2 = \frac{7.5 + j4}{22.5 - j12.5} (100) = \frac{8.5 \angle 28.07^{\circ}}{25.74 \angle - 29.05^{\circ}} (100) = 33.02 \angle 57.12^{\circ}$$



# **Electrical Circuit Analysis Problems**

Mehdi Rahmani-Andebili

#### **Electrical Circuit Analysis Problems:**

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