

Exercise on Chapter 3

1. Express the following functions in cosine form:

(a) $4 \sin (\omega t - 30^\circ)$

(b) $-2 \sin 6t$

(c) $-10 \sin (\omega t + 20^\circ)$

Solution

a) $4 \sin (\omega t - 30^\circ) = 4 \cos (\omega t - 30^\circ - 90^\circ) = 4 \cos (\omega t - 120^\circ)$

b) $-2 \sin(6t) = 2 \cos (6t + 90^\circ)$

c) $-10 \sin (\omega t + 20^\circ) = 10 \cos (\omega t + 20^\circ + 90^\circ) = 10 \cos (\omega t + 110^\circ)$

2. Find the sinusoids represented by these phasors:

(a) $\mathbf{V}_1 = j8e^{-j20^\circ}$

(b) $\mathbf{V}_2 = 6 + j8 \text{ V}, \omega = 40$

(c) $\mathbf{I}_2 = -0.5 - j1.2 \text{ A}, \omega = 10^3$

Solution

(a) Since $j = 1 \angle 90^\circ$,

$$\begin{aligned} \mathbf{V} &= j8 \angle -20^\circ = (1 \angle 90^\circ)(8 \angle -20^\circ) \\ &= 8 \angle 90^\circ - 20^\circ = 8 \angle 70^\circ \text{ V} \end{aligned}$$

Converting this to the time domain gives

$$v(t) = 8 \cos(\omega t + 70^\circ) \text{ V}$$

b) $\mathbf{V}_2 = 6 + j8 = 10 \angle 53.13^\circ$

Transforming this to the time domain gives

$$\mathbf{V}_2(t) = 10 \cos (40t + 53.13^\circ)$$

c. $\mathbf{I}_2 = -0.5 - j1.2 = 1.3 \angle 247.4^\circ$

Transforming this to the time domain gives

$$i_2(t) = 1.3 \cos (10^3 t + 247.4^\circ)$$

3. Given the sinusoidal voltage $\mathbf{V}(t) = 50 \cos (30t + 10^\circ) \text{ V}$, find:

(a) the amplitude V_m , (b) the period T , (c) the frequency f ,

Fordney Chapter 3 Exercise Answers

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Fordney Chapter 3 Exercise Answers:

Fordney Chapter 3 Exercise Answers Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Fordney Chapter 3 Exercise Answers**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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