

## 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

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

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

Transforming this to the time domain gives

$$i_2(t) = 1.3 \cos (10^3 t + 247.4^\circ) \text{ A}$$

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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