

### Ejercicio 9.4

a) Expresar  $\Re = 8 \cos(7t + 15)$  en la forma seno.

$$\cos(\theta) = \sin(\theta + \frac{\pi}{2}) = \sin(\theta + 90^\circ)$$

$$\Re = 8 \sin(7t + 105^\circ)$$

b) Convierta  $i = -10 \sin(3t - 85^\circ)$  en la forma coseno.

$$\sin(\theta) = \cos(\theta - 90^\circ)$$

$$i = -10 \sin(3t - 85^\circ) = -10 \cos(3t - 175^\circ) = 10 \cos(3t + 15^\circ)$$