

88. (a) Eq. 11-12 leads to  $\alpha = -\omega_o/t = -25.0/20.0 = -1.25 \text{ rad/s}^2$ .  
(b) Eq. 11-15 leads to  $\theta = \frac{1}{2}\omega_o t = \frac{1}{2}(25.0)(20.0) = 250 \text{ rad}$ .  
(c) Dividing the previous result by  $2\pi$  we obtain  $\theta = 39.8 \text{ rev}$ .