

$$1. \quad \Delta t = 9.09 \text{ hr} \left(\frac{60 \text{ min}}{1 \text{ hr}} \right) \left(\frac{60 \text{ s}}{1 \text{ min}} \right) = 32,724 \text{ s}$$

$$\omega = ?$$

$$\omega = \frac{\theta}{\Delta t} = \frac{1.34 \text{ rad}}{32,724 \text{ s}} = 4.09 \times 10^{-5} \text{ rad/s}$$