P7.  $\theta = -\omega_0^2 \sin \theta$   $\frac{d^2(\theta_1 + \theta_2)}{dt^2}$   $= \theta_1 + \theta_2$   $= -\omega_0^2 (\sin \theta_1 + \sin \theta_2) \neq -\omega_0^2 \sin(\theta_1 + \theta_2)$ 

P7.3  $I = mL^{2}$   $\frac{1}{2}mL^{4}(d\theta)^{2} = MSL(\cos\theta - \cos\theta)$   $\frac{d\theta}{dt} = \int \frac{29}{L}(\cos\theta - \cos\theta)$