besides that, 
$$\dot{\theta}(t + \Delta t)$$

$$\dot{\theta}(t + \Delta t) = \dot{\theta}(t) + \ddot{\theta}(t) \Delta t$$

$$\dot{\theta}$$
  $(0 + \Delta t) = \dot{\theta}(0) + \dot{\theta}(0) \Delta t \omega \dot{\theta}(\Delta t) = \begin{bmatrix} -15, 1036 \\ 21, 6435 \end{bmatrix} - \Delta t$ 

14. (Cing + 2 K, King Co + K, Ming + m) . King + EK, mile ] 2 8 9 Mg

$$\frac{\theta(0+\Delta t)-\theta(0)+\dot{\theta}(0)\Delta t}{\omega} + \frac{1}{2}\frac{\dot{\theta}(0)\Delta t^{2}}{\omega} + \frac{1}{2}\left[\frac{-150}{246435}\right]\Delta t^{2}$$

$$\Phi(t) = \frac{1}{2} \left[ -\frac{15}{21.6435} \right] t^2 + \left[ \frac{30}{150} \right].$$