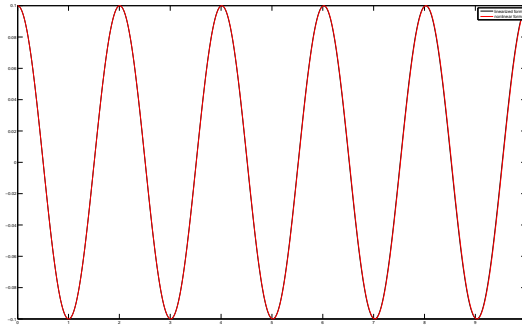


Plots for the pendulum model

For a pendulum with  $\theta(t)$  close to zero, the linear and nonlinear models show good agreement:



But when  $\theta(t)$  is large, the nonlinearity manifests itself as a change in period:

