

Initial Conditions: $g = 9.81$, $l_1 = l_2 = 1$, $m_1 = m_2 = 1$, $(\theta_1)_0 = 2.3$, $(\theta_2)_0 = 1$, $(\dot{\theta}_1)_0 = 5$, $(\dot{\theta}_2)_0 = 2$

