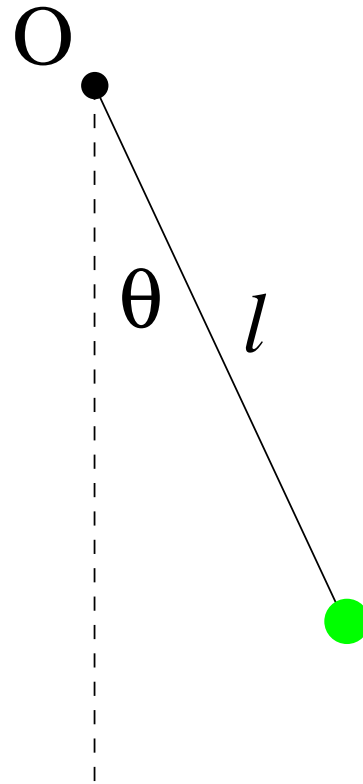
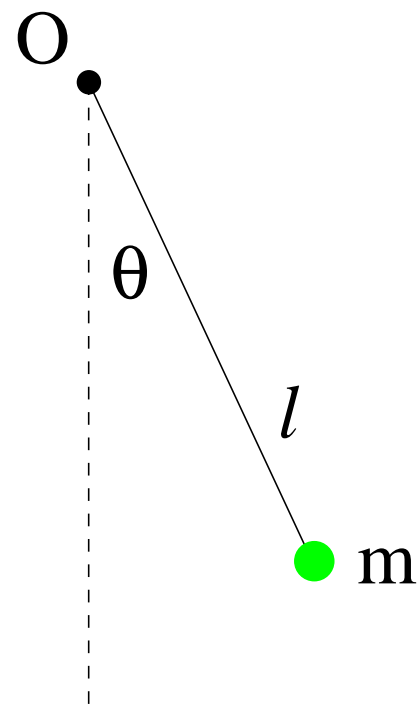
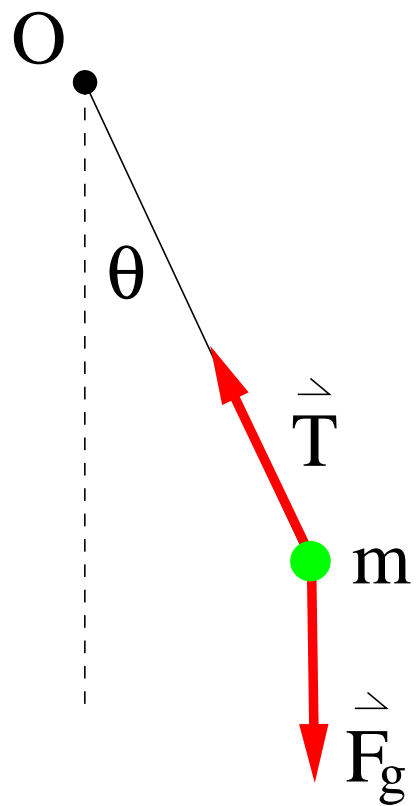


The Simple Pendulum

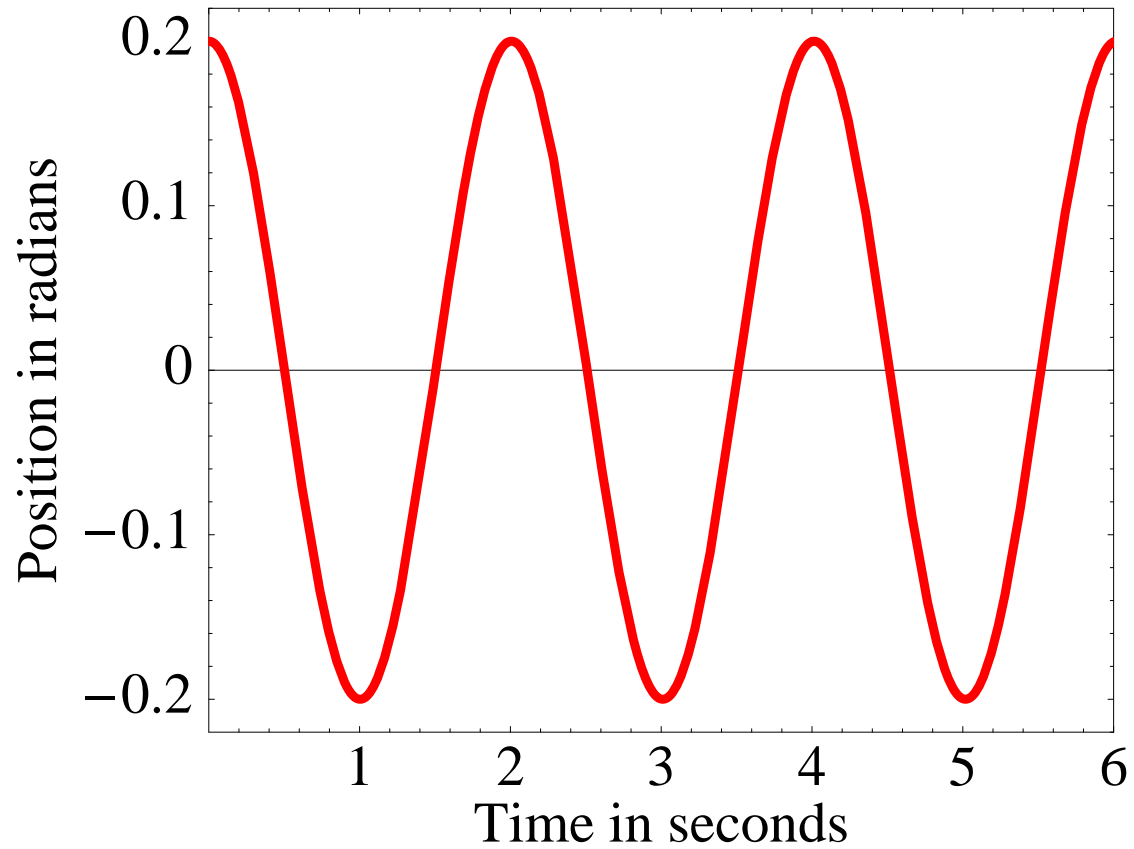
Consider the simple pendulum shown in the figure below. Find the position of the pendulum 'bob' as a function of time when the bob is pulled back through an angle of θ_0 with the string taut and released from rest. The initial angle θ_0 is small. The length of the string is l .



The Simple Pendulum



The Simple Pendulum



$$l = 1.0 \text{ m} \quad \text{and} \quad \theta_0 = 0.2 \text{ rad}$$

The Damped Pendulum

