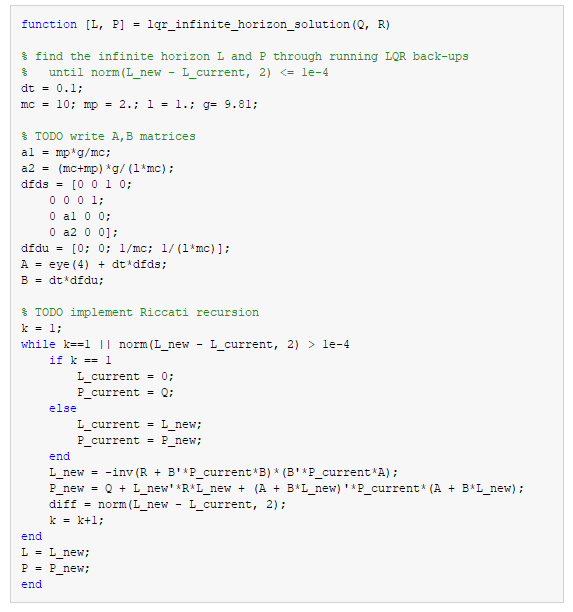
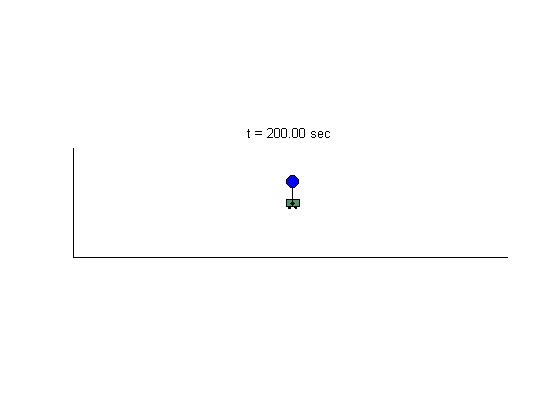
Question 4

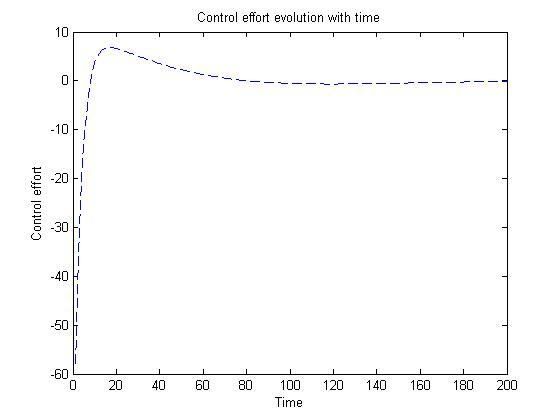
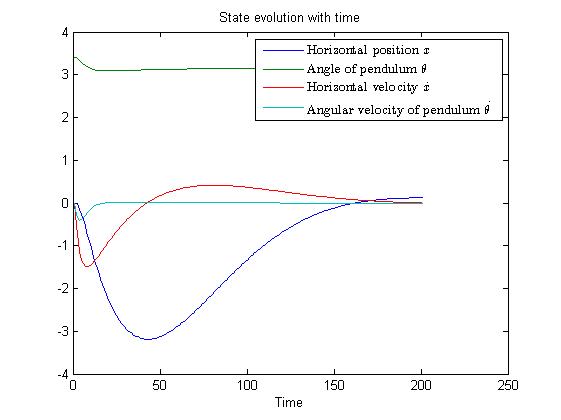
**Code**



**Plots**

All the simulations end at this point in the animation



**Without Noise**

**With Noise**