MECH 7610: Advanced Dynamics

SPRING 2020

Homework Assignment #2

1. Ginsberg, 2.1
2. Ginsberg, 2.18
3. Ginsberg, 2.30
4. Ginsberg, 2.34
5. Ginsberg, 2.51

6. Given: a simple pendulum of length, L, and mass, m.

    a. Determine the number of degrees of freedom of this system.
    b. Write expressions for the kinetic and potential energy of this system.
    c. Draw the free body diagram for this system.
    d. Write the equation(s) of motion.

This assignment is due Tuesday, January 21, 2020

No standard format for the problem solutions is required. However, you should present your assignments in a neat, organized manner with your answers clearly marked.

No credit will be given for late homework.