

PHYS-330 - Classical Mechanics - Fall 2017

Homework 7

Due: 9th November 2017 by the start of class. Anything later will be considered late. Instructions: Complete all of the questions below. You are encouraged to use Jupyter Notebooks to complete any numerical work and written. While the use of python is encouraged, you can use any programming language you want. You can either email me your assignment **as a single pdf document** or provide me with a hard copy in class.

1. A rocket car can travel 400 mph on land. If it heads due north at this speed, find the ratio of the magnitude of the coriolis force on the the car to the weight of the car. What is the direction of the Coriolis force if the car was traveling in Saskatoon Saskatchewan?
2. 9.22 from Taylor
3. 9.20 and 9.24 from Taylor
4. 9.28 from Taylor
5. 9.30 from Taylor