AA 218 - Homework 6

Spring 2020

Due Thursday May 21

Read Chapter 10

Complete EXERCISE 10.6

I suggest using $\dfrac{T - T_\infty}{T_w - T_\infty}$ as the appropriate temperature variable in 10.6. This way the boundary conditions on the temperature equation do not depend on the actual choice of temperatures.

This problem is discussed in Schlichting's book *Boundary Layer Theory* which includes data for the temperature and velocity profiles. The data might help you initialize your numerical calculations.