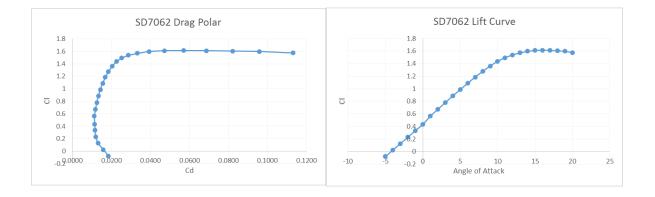
AEM 313 Problem Set #5

Due: 15th October 2016 by 5:00pm

- 1. Using XFOIL analyze and plot for both the NACA 4414 and Selig Donovan SD7062 at Re=200000.
 - Lift Curves: C_I versus α
 - Drag polars: C_d versus C_l
 - Airfoils with boundary layer thickness and velocity profile at C_{Imax} (separate plots)





2. Use Thin Airfoil Theory to estimate the zero lift angle of attack and C_m at the quarter chord for a flat airfoil with a 20% flap deflected to 20 degrees.

