AE/ME 339 Homework 7

1. Follow the method used in writing the adiabatic wall boundary condition to obtain an equation for the boundary node when it is a constant heat flux boundary ($\dot{q}_w$ is known).

2. Write the vector form of the equations for the following cases.
    a. Three-dimensional inviscid flow
    b. Two-dimensional viscous flow
    c. Incompressible isothermal flow