**Chemical Engineering 374**

**Reading Questions 20—Chapter 10.6**

**Name** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Answer text problem 10-73C (2nd: 74C).
2. Answer text problem 10-72C (2nd: 75C).
3. What is the difference between the outer flow region and the boundary layer region.
4. For boundary layers, how is the Reynolds number defined and at what Reynolds number does the flow become turbulent?
5. How does pressure vary across a boundary layer? For a flat plate boundary layer with a uniform flow in the outer region, how does the pressure in the boundary layer change along the boundary layer (hint: the answer follows from the first question).