**Chemical Engineering 374**

**Reading Questions 24—Chapter 14.4-14.5**

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

1. One type of turbine operates with the principle of a liquid jet striking a movable bucket. What is the name of this class of turbines?
2. One type of turbine operates with the principle of a liquid jet striking a movable bucket. At what bucket velocity (relative to the jet velocity) is maximum efficiency achieved?
3. What is the name of the class of turbines that operate like the reverse of a centrifugal pump?
4. What is the definition of efficiency for turbines (in words, rather than an equation)?
5. For a particular application, a turbine has a specific speed (Nst) equal to approximatly 3.0. What type of hydraulic turbine would be suitable?