Unit 24. Pre-Class Quiz Questions

1. A bifurcation analysis is used to
   a. find the most economical CSTR start-up procedure
   b. find ways to increase yield
   c. find ways to increase conversion
   d. find conditions where multiple steady states can occur
   e. control temperature
2. The example used in the reading
   a. had 3 steady states, but none were stable
   b. had 3 steady states, but only one was stable
   c. had 3 steady states, but only two were stable
   d. had 3 steady states, all of which were stable
   e. had only 2 steady states
3. In the example used in the reading, two curves were plotted. The straight one represented
   a. heat generated
   b. heat absorbed
   c. heat of reaction
   d. latent heat
   e. lost heat
4. In the example used in reading, two curves were plotted. The number of steady states was equal to
   a. the number of times one curve crossed the other from above
   b. the number of times one curve crossed the other from below
   c. the number of times they crossed
   d. the number of fully enclosed regions formed.
   e. 17
5. True or false? The analysis presented in the reading was not entirely correct because it used the steady state design equations to analyze transient behavior