

Unit 27. Pre-Class Quiz Questions

1. The transient PFR design equations are
 - a. algebraic equations
 - b. ordinary differential equations
 - c. partial differential equations
 - d. eigenvalue equations
 - e. integer equations
2. True or false? If a step change occurs in an operating parameter of a PFR, the ensuing transient period will only last for an amount of time equal to the space time.
3. True or false? Many transient PFR analyses can be completed using only the steady state design equations.
4. True or false? Start-up and shut-down of a PFR are not transient operations.
5. If a step change is made in the inlet concentration of a reactant, the transient response of a PFR will take the form of
 - a. a sine wave
 - b. a cosine wave
 - c. a moving front
 - d. a stationary front
 - e. exponential decay