**Chemical Engineering 374**

**Reading Questions 18—Chapter 9.1-9.2, 9.4**

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

1. Why did the solution to Example 9-1 begin with a different form of the continuity equation than did the solution of Exmaple 9-2?
2. Why did the solutions to Examples 9-3, 9-4, and 9-7 begin with a different form of the continuity equation than did the solutions of Examples 9-1 or 9-2?
3. Why did the solution to Example 9-5 begin with a different form of the continuity equation than did the solutions of Examples 9-3, 9-4, and 9-7?
4. What are two approaches to deriving the differential linear momentum equation?
5. In Cauchy’s equation, how are pressure forces accounted for (where do they appear)?