1. What is the first equation of hydrodynamics and what, in words, does it express?

2. Is the hydrodynamic time derivative a linear operator in the velocity? Explain any consequences.

3. What is meant by *advection*?

4. What aspects of this problem lead to *laminar* flow?

5. How does *successive over relaxation* enter into the algorithm?

6. What variable is solved for in the vorticity form of the Navier-Stokes equation?

7. What physical property does *vorticity* measure?