

**MATH 667, Fall 07, "In class presentations"**

The inclass presentations are about 50 minutes. They will take place during the last two weeks of term, (Nov. 26. - Dec 05. 2007).

1.   
**Isentropic gas dynamics.** Bressan Sec. 5.5, p. 103-106.
2.   
**Vanishing viscosity method I.** L.C. Evans, PDE, AMS Providence 1998, Sec. 11.4 p. 599-603.
3.   
**Vanishing viscosity method II.** L.C. Evans, PDE, AMS Providence 1998, Sec. 11.4 p. 599-603.
4.   
**Numerical methods for linear equations.** R. LeVeque, Numerical Methods for Conservation Laws, Birkhäuser, Basel, 1992. p. 97-102 and 110-112. Show table 10.1 on page 101.
5.   
**Godunov's method.** R. LeVeque, Numerical Methods for Conservation Laws Birkhäuser, Basel, 1992. p. 136-140 (not Courant-Isaacson-Rees).
6.   
**Two out of three Counterexamples.** Bressan-skript. Example 9, 10, 11, p. 61-66.
7.   
**Traffic Flow.** G.B. Whitham, Linear and Nonlinear Waves. Wiley, 1974 pages 68-80.
8.   
**Flood Waves.** G.B. Whitham, Linear and Nonlinear Waves. Wiley, 1974, pages 80-91.