

Lectures 1/5

With Ole, you will go through the exercises from 25/4. We then

- Do a brief review of local and global convergence
- Discuss how to use global convergence to estimate the accuracy at a fixed x . This involves also some subtleties with the ODE's concerning inherent and numerical instabilities.
- Boundary value problems. We will basically cover 18.0 and 18.1, but we also consider a simple boundary value problem example with just one second order differential equation, which is converted into two first order ODE's.
- With Ole, you will then work on an exercise with the Shooting Method for boundary value problems.