Recitation 11

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We discussed solutions to the quiz, as well as sec. 12.1, Euler's method, its MATLAB implementation and a brief introduction to the Trapezoidal method.

Resources for Numerical solution of ODEs

Note: A number of these resources are supplementary and cover everything from Euler's method to more advanced methods. Skim through them and choose one which seems most intuitive to you. I especially recommend [1,2,5].

1. http://www.uio.no/studier/emner/matnat/math/MAT-INF1100/h10/kompendiet/kap13.pdf
2. http://faculty.olin.edu/bstorey/Notes/DiffEq.pdf
3. http://www.damtp.cam.ac.uk/user/examples/3N2a.pdf
4. https://na.uni-tuebingen.de/~lubich/pcam-ode.pdf
5. http://www.cs.elte.hu/~faragois/ODE_angol.pdf
6. https://people.maths.ox.ac.uk/suli/nsodes.pdf
7. http://lpsa.swarthmore.edu/NumInt/NumIntFirst.html
8. http://people.math.sfu.ca/~ralfw/math467w03/matlab/euler_matlab.pdf
9. http://www.mathworks.com/help/symbolic/solve-a-single-differential-equation.html