Homework 3
Due Janaurary 23rd

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a. **Numerical Solvers II**: Add an adaptive step size algorithm to your Euler code and verify its effectiveness on three different diffeq's of your choice

b. Find the region of stability for Backward Euler

c. Verify that RK2 is second order by going through the calculation laid out in section 9.4 of the Griffiths book yourself.