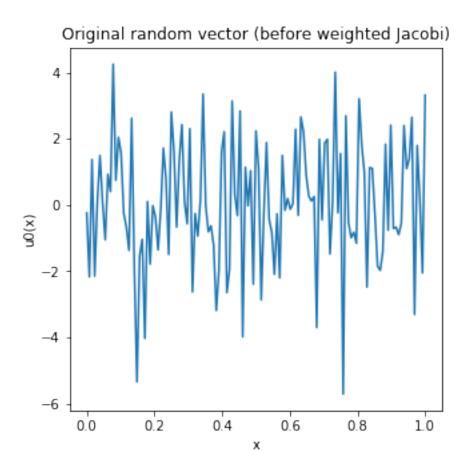
Lab 6 Plots

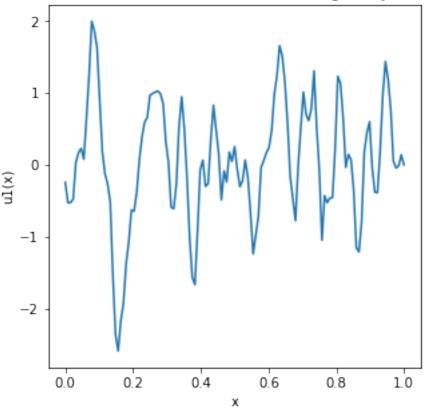
February 26, 2018

1 Lab 6: Finite Elements (Plots)

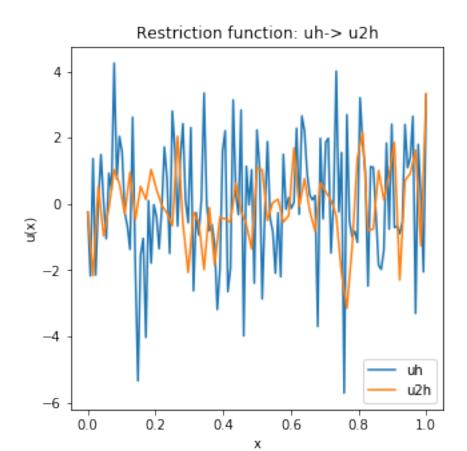
1.1 Deliverable 1: Weighted Jacobi



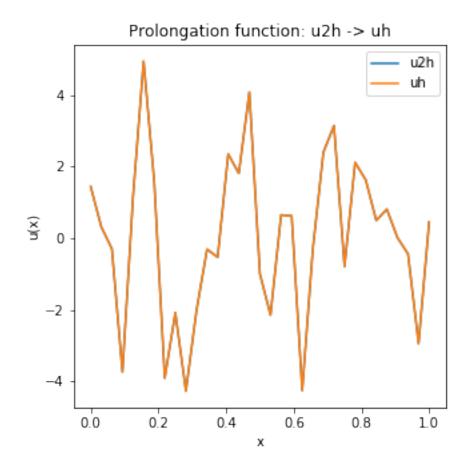




1.2 Deliverable 2: Restriction



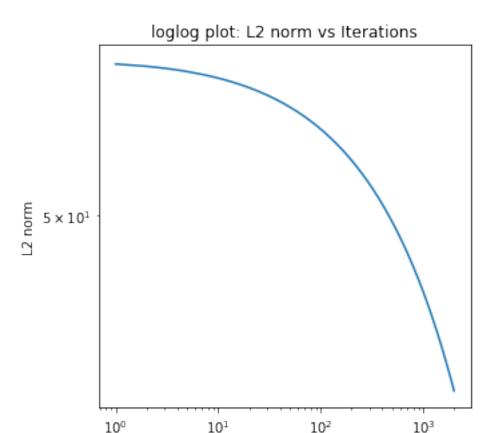
1.3 Deliverable 3: Prolongation



1.4 Deliverable 4: Thomas Solver

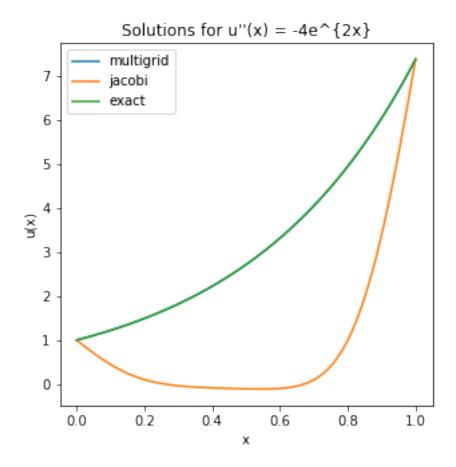
This is covered in the output of the program, but we reach the solution of $x = [1, 1, ..., 1]^T$

1.5 Task 1(or 5): weighted jacobi



Iterations

1.6 Task 2 (or 6): Multigrid



1.7 Task 3 (or 7): Computational Costs

Unfortunately I was unable to complete this task because my code would output either 1 or 10000 for each tolerance of iteration