ENME 631 Numerical Methods

Name: Henry Stoldt
ID: 10127324
Date: Thursday Oct. 24th, 2019
Language: Julia

The file "Assignment 3.jl" runs all of code requested in Q1-3. Explanation and comments below.

Question 1:

The Solvers:

Solving the sample matrix:

Question 2:

The Solvers:

Solving the sample matrix:

Question 3:

Assumptions:

- Assumed the fluid is air, using the following constant values:
- Pr = 0.71
- Volume coefficient of expansion (\beta) = 0.0034 /K
- Kinematic viscosity = 1.48e-5 m^2/s

The Solvers:

Solving the sample matrix: