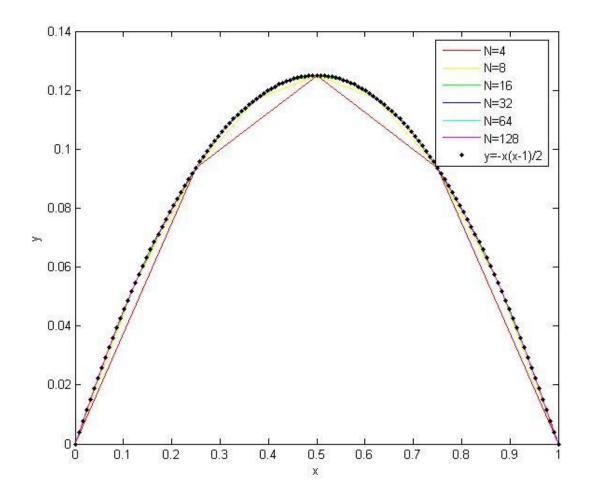
Math 6635 Homework 6 Solution

Problem 16: Cholesky Factorization

x = -1.3611 0.4722 5.2778 0.9444

Problem 17:



Problem 18:

problem 18:
$$I - D^T A = I - \begin{pmatrix} \overline{a_u} & -0 & 0 \\ \overline{a_{uu}} & \overline{a_{uu}} \\ \overline{a_{uu}} & \overline{a_{uu}} - \overline{a_$$

Problem 19:

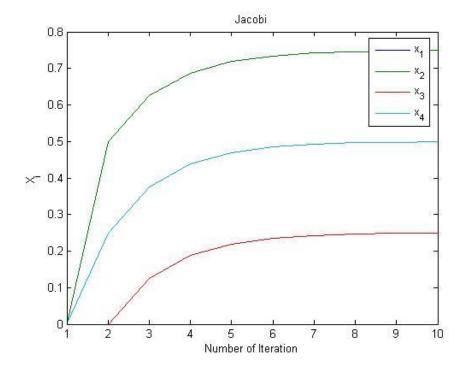
Exact solution is:

Command Window

exact solution is: ans =

- 0.5000
- 0.7500
- 0.2500
- 0.5000

(a). Jacobi



(b). Gauss-Seidel

