

Exercise # 3. Numerical Solution of the Poisson Problem.

Alexandre Rodrigues (2039952)

January 13, 2022

1 intro

2 Results

Level 0

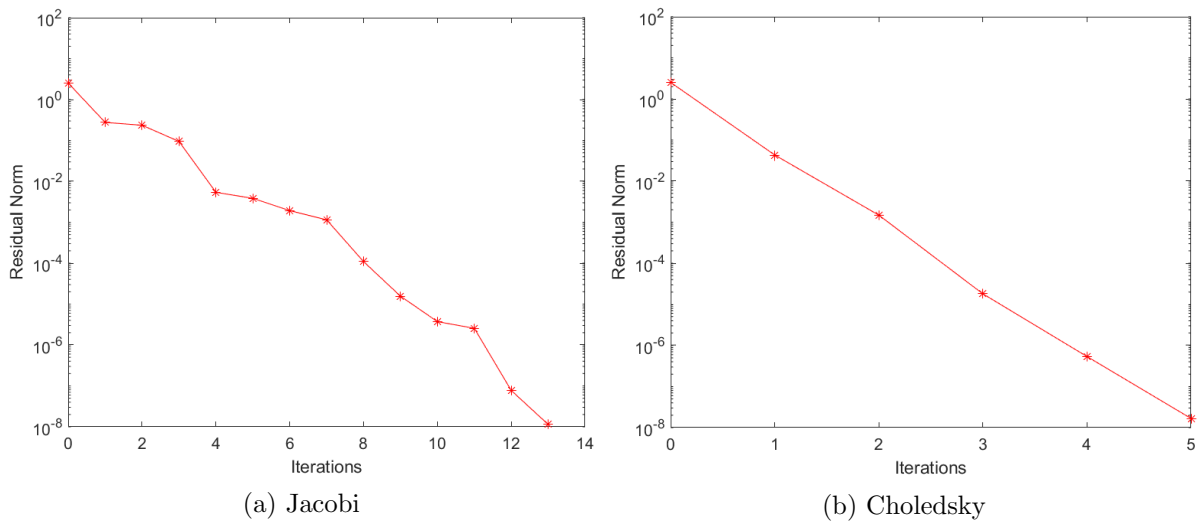


Figure 1: Convergence plots for level 0

Level 1

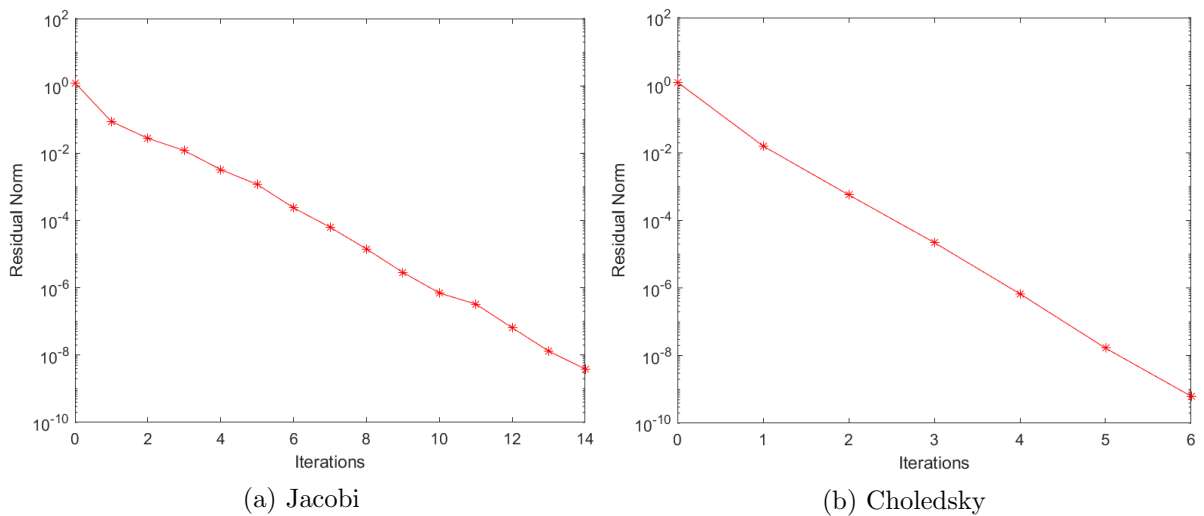
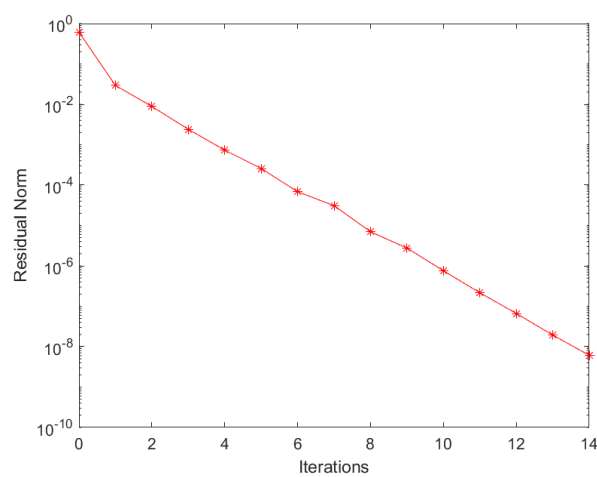
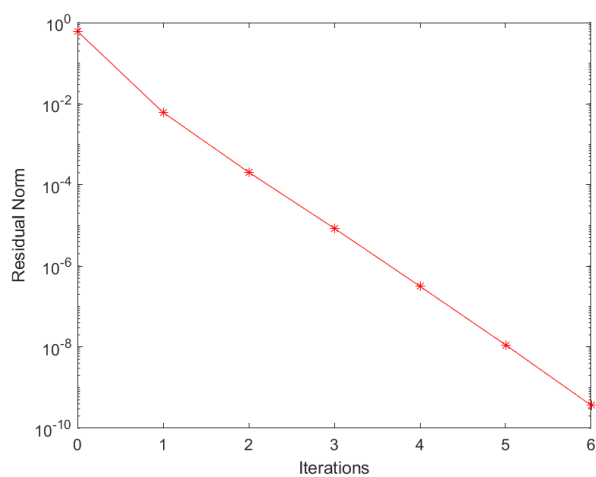


Figure 2: Convergence plots for level 1

Level 2



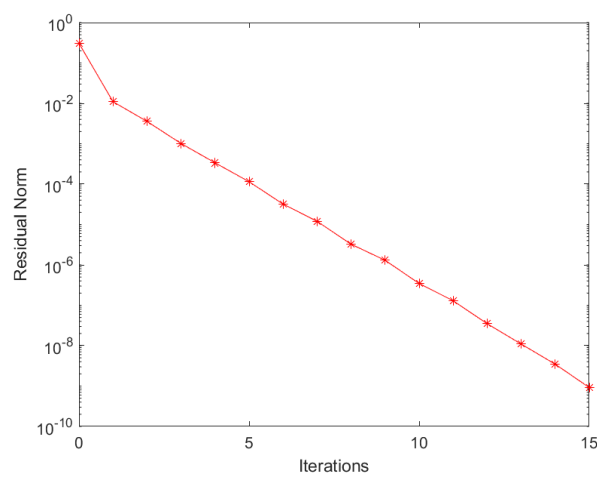
(a) Jacobi



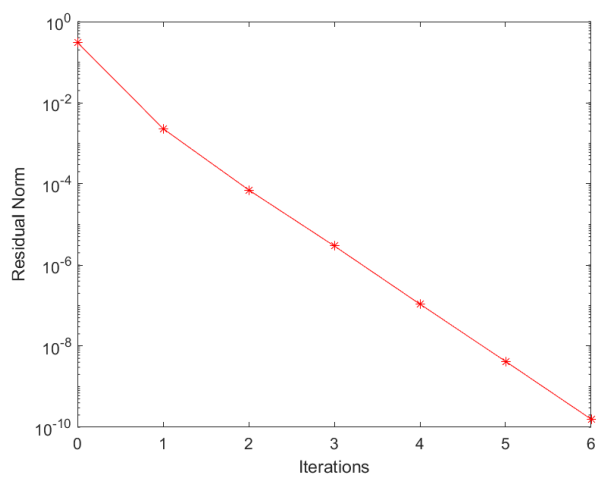
(b) Cholesky

Figure 3: Convergence plots for level 2

Level 3



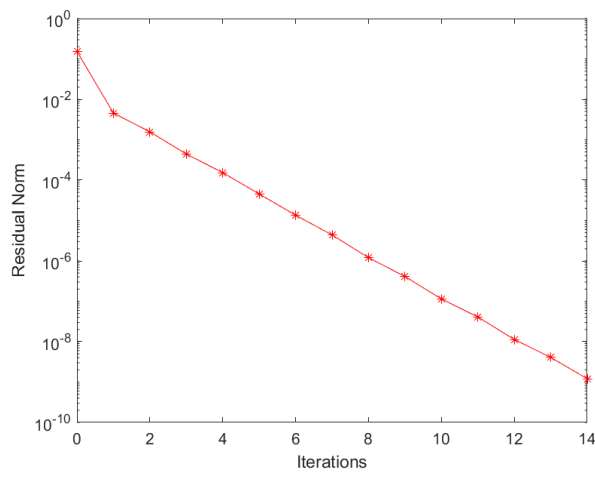
(a) Jacobi



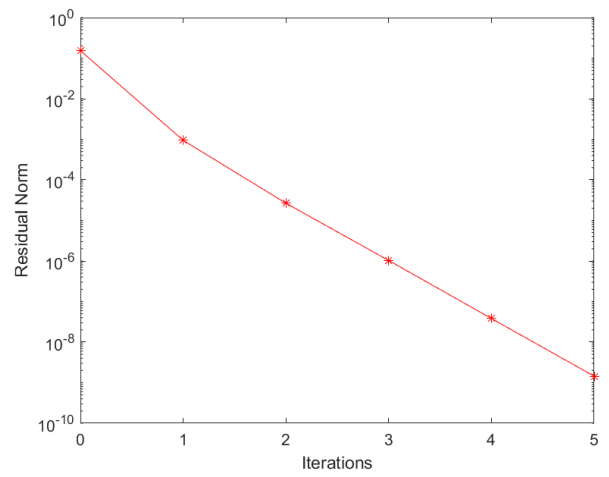
(b) Cholesky

Figure 4: Convergence plots for level 3

Level 4



(a) Jacobi



(b) Cholesky

Figure 5: Convergence plots for level 4

2.1 Epsilon