Homework 06

You are suggested to finish all questions prior to Quiz 06.

- 1. Section 2.5 Exercises: Q3;
- 2. Section 2.5 Exercises: Q4;
- 3. Consider a linear system:

$$Ax = b: \begin{bmatrix} 3 & 1 & 0 \\ 1 & 2 & 1 \\ 0 & 1 & 4 \end{bmatrix} x = \begin{bmatrix} 5 \\ 5 \\ 5 \end{bmatrix} ,$$

find the optimal ω such that the corresponding relaxation method converges to the true solution of Ax=b fastest.