

Assignment-5

Problem-1: Determine the largest eigenvalue of the following matrix using the power method.

$$A = \begin{bmatrix} -30 & 10 & 20 \\ 10 & 40 & -50 \\ 20 & -50 & -10 \end{bmatrix}$$

Print results at each step of iteration till the last covered result.

Also obtain the smallest eigenvalue of the above matrix using the inverse power method.