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# Inverse Iteration with a Shift

1分

Suppose  $A$  is an  $4 \times 4$  matrix with the eigenvalues  $-8$ ,  $-6$ ,  $5$ , and  $1$ . Suppose you apply the following iterative algorithm:  $x_{k+1} = \frac{(A - \sigma I)^{-1} x_k}{\|(A - \sigma I)^{-1} x_k\|}$  and choose  $\sigma = 4$ . Assuming that the algorithm converges on an eigenvector, which eigenvalue of  $A$  is associated with that eigenvector?

回答\*

保存回答

提交最终回答