

Introduction to Week Three

Gaussian Elimination

Operation Counts

Eigenvalues and Eigenvectors

✔ **Video:** Eigenvalue Power Method | Lecture 30  
11 min

✔ **Reading:** Convergence of the Eigenvalue Power Method  
5 min

✔ **Video:** Eigenvalue Power Method (Example) | Lecture 31  
7 min

✔ **Reading:** Determine the Dominant Eigenvalue  
10 min

Matrix Algebra in MATLAB

Systems of Nonlinear Equations

Quiz

Programming Assignment:  
Fractals from the Lorenz  
Equations

# Determine the Dominant Eigenvalue

Use the power method (without normalizing the vectors after each iteration) to determine the dominant eigenvalue and corresponding eigenvector of the matrix

$A = \begin{pmatrix} -5 & -6 \\ -5 & -4 \end{pmatrix}.$

✔ **Completed** **Go to next item**

👍 Like    💬 Dislike    🚩 Report an issue

