



Department of Mathematics and Natural Sciences

MAT 350

## ONLINE ASSIGNMENT 2

FALL 2023

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**You have to submit the assignment in a *zip* file containing the f90 and the input/output files using [this form](#). Submission Deadline: Before Mid**

1. Use the power method (with scaling) to find the dominant eigenvalue and the dominant eigenvector of the following matrix:

$$\begin{bmatrix} 1 & 2 & 0 \\ -2 & 1 & 2 \\ 1 & 3 & 1 \end{bmatrix}$$