

Exercises

- 2.1 (a) The 2×2 and 3×3 discrete derivative matrices can actually be read off from the general form provided there:

$$D_{2 \times 2} = \begin{pmatrix} 0 & \frac{1}{2\Delta x} \\ -\frac{1}{2\Delta x} & 0 \end{pmatrix}, \quad (2.1)$$

$$D_{3 \times 3} = \begin{pmatrix} 0 & \frac{1}{2\Delta x} & 0 \\ -\frac{1}{2\Delta x} & 0 & \frac{1}{2\Delta x} \\ 0 & -\frac{1}{2\Delta x} & 0 \end{pmatrix}. \quad (2.2)$$

- (b) To calculate the eigenvalues, we construct the characteristic equation where

$$\det(D_{2 \times 2} - \lambda I) = 0 = \lambda^2 + \frac{1}{4\Delta x^2}. \quad (2.3)$$

Then, the eigenvalues of the 2×2 derivative matrix are

$$\lambda = \pm \frac{i}{2\Delta x}. \quad (2.4)$$

For the 3×3 derivative matrix, its characteristic equation is

$$\begin{aligned} \det(D_{3 \times 3} - \lambda I) &= 0 = \det \begin{pmatrix} -\lambda & \frac{1}{2\Delta x} & 0 \\ -\frac{1}{2\Delta x} & -\lambda & \frac{1}{2\Delta x} \\ 0 & -\frac{1}{2\Delta x} & -\lambda \end{pmatrix} \\ &= (-\lambda) \left(\lambda^2 + \frac{1}{4\Delta x^2} \right) - \frac{\lambda}{4\Delta x^2}. \end{aligned} \quad (2.5)$$

One eigenvalue is clearly 0, and the other eigenvalues satisfy

$$\lambda^2 + \frac{1}{2\Delta x^2} = 0, \quad (2.6)$$

and so the 3×3 derivative matrix has eigenvalues

$$\lambda = 0, \pm \frac{i}{\sqrt{2}\Delta x}. \quad (2.7)$$

All non-zero eigenvalues are exclusively imaginary numbers.

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