1. Inhomogeneous linear systems and matrix exponentials

Objectives

- Solve an **inhomogeneous systems** using **fundamental** matrices and **variation of parameters.**
- Use **diagonalization** to **decouple** an $n \times n$ system.
- Compute **matrix exponentials** for diagonalizable matrices.
- Use the **matrix exponentials** to solve an $n \times n$ system of linear differential equations.

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