

Problem 10 (Lecture 10): Chapter 10

Consider the  $3 \times 3$  matrix  $A = \begin{pmatrix} 1 & 2 & 3 \\ 2 & 1 & 2 \\ 3 & 2 & 1 \end{pmatrix}$ . This matrix is symmetric and its eigenvalues are the numbers  $\lambda_1 = 6$ ,  $\lambda_2 = -1$ , and  $\lambda_3 = -1$ . The following information is relevant:  $\lambda_1 = 6$ ,  $\lambda_2 = -1$ ,  $\lambda_3 = -1$ ,  $v_1 = \frac{1}{\sqrt{3}} \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$ ,  $v_2 = \frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ -1 \\ 0 \end{pmatrix}$ , and  $v_3 = \frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ 0 \\ -1 \end{pmatrix}$ .

(a) Find a general expression for the  $n$ th power of  $A$ ,  $A^n$ , and  $e^{At}$ .

(b) Computing on the  $3 \times 3$  matrix  $A$ , solve the system  $x'' + Ax = 0$ .

For this problem, you should use the other material you studied in Math 1B. Chapter 10.

$A^n = \frac{1}{3} \begin{pmatrix} 2^n + 2 & 2^n - 2 & 2^n - 2 \\ 2^n - 2 & 2^n + 2 & 2^n - 2 \\ 2^n - 2 & 2^n - 2 & 2^n + 2 \end{pmatrix}$

$e^{At} = \frac{1}{3} \begin{pmatrix} e^{6t} + 2e^{-t} & e^{6t} - 2e^{-t} & e^{6t} - 2e^{-t} \\ e^{6t} - 2e^{-t} & e^{6t} + 2e^{-t} & e^{6t} - 2e^{-t} \\ e^{6t} - 2e^{-t} & e^{6t} - 2e^{-t} & e^{6t} + 2e^{-t} \end{pmatrix}$

$x(t) = \frac{1}{3} \begin{pmatrix} c_1 e^{6t} + c_2 e^{-t} + c_3 e^{-t} \\ c_1 e^{6t} - c_2 e^{-t} - c_3 e^{-t} \\ c_1 e^{6t} - c_2 e^{-t} - c_3 e^{-t} \end{pmatrix}$

# Luenberger Chapter 7 Problem 7

**Christian Drosten**



**Luenberger Chapter 7 Problem 7:**

## Reviewing **Luenberger Chapter 7 Problem 7**: Unlocking the Spellbinding Force of Linguistics

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