

Last Problem Set

Due Wed, week 10

From Jacobs:

Section 7.2 #2 (instead of the $P^{-1}AP = D$ thing, find an eigenbasis when the matrix is diagonalizable)

#3

#5

#7

Section 7.3 #6, #7, #8, Group Project - Leontief Model

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Not from Jacobs

Let $A = \begin{pmatrix} -2 & 2 \\ -12 & 8 \end{pmatrix}$. Show how to calculate

$A^{50000} \begin{pmatrix} 1 \\ 0 \end{pmatrix}$ without using a computer.

(think about the fibonacci example.)