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Chapter 9 Matrices And Transformations 9 MATRICES AND ...

Chapter 9 Matrices And Transformations 236 Addition And Subtraction Of Matrices Is Defined Only For Matrices Of Equal Order; The Sum (difference) Of Matrices A And B Is The Matrix Obtained By Adding (subtracting) The Elements In Corresponding Positions Of A And B. Thus $A = \begin{pmatrix} 1 & 2 & 3 \\ -1 & 0 & 4 \end{pmatrix}$ And $B = \begin{pmatrix} -1 & 2 & 3 \\ -3 & 4 & -3 \end{pmatrix} \Rightarrow A+B = \begin{pmatrix} 0 & 4 & 6 \\ -4 & 4 & 1 \end{pmatrix}$ Jul 3th, 2024

Similar Matrices And Diagonalizable Matrices

$\begin{pmatrix} 1 & 0 & -5 \\ 0 & 0 & 3 \end{pmatrix} \begin{pmatrix} 1 & 0 & -5 \\ 0 & 0 & 3 \end{pmatrix} = \begin{pmatrix} 1 & 0 & 25 \\ 0 & 0 & 9 \end{pmatrix} B^3 = i$
 $B^2 \cdot B = \begin{pmatrix} 1 & 0 & 25 \\ 0 & 0 & 9 \end{pmatrix} \begin{pmatrix} 1 & 0 & -5 \\ 0 & 0 & 3 \end{pmatrix} = \begin{pmatrix} 1 & 0 & 0 \\ -125 & 0 & 0 \end{pmatrix} 27$ And In General $B^k = \begin{pmatrix} 1 & 0 & 0 \\ 0 & (-5)^k & 0 \\ 0 & 0 & 3^k \end{pmatrix}$.
This Example Illustrates The General Idea: If B Is Any Diagonal Matrix And K Is Any Positive Integer, Then B^k Is Also A Diagonal Matrix And Each Diagonal Apr 3th, 2024

Population And Transition Matrices Stationary Matrices And ...

X9.2 Theorem 1 Let P Be The Transition Matrix For A Regular Markov Chain. 1 There Is A Unique Stationary Matrix S That Can Be Found By Solving The Equation $SP = S$. (shortcut: Take Transposes And Row-reduce The $(n + 1) \times n$ Matrix $P - I$) 2 Given Any Initial-state Matrix S_0 , The State Matric Apr 3th, 2024

Sage 9.2 Reference Manual: Matrices And Spaces Of Matrices

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