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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 $A = \begin{pmatrix} 1 & 2 & 3 \\ -1 & 0 & 0 \end{pmatrix}$ and $B = \begin{pmatrix} -1 & 2 & 3 \\ 4 & -3 & -3 \end{pmatrix} \Rightarrow A+B = \begin{pmatrix} 0 & 4 & 6 \\ 5 & -3 & -3 \end{pmatrix}$ 4th, 2024.

Similar Matrices And Diagonalizable Matrices $\begin{pmatrix} 1 & 0 & 0 \\ 0 & -5 & 0 \\ 0 & 0 & 3 \end{pmatrix}$ $\begin{pmatrix} 1 & 0 & 0 \\ 0 & -5 & 0 \\ 0 & 0 & 3 \end{pmatrix} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 2 & 5 & 0 \\ 0 & 0 & 9 & 0 \end{pmatrix}$ $B^3 = \begin{pmatrix} 1 & 0 & 0 \\ 0 & -125 & 0 \\ 0 & 0 & 27 \end{pmatrix}$ 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 1th, 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 $P^T - I$) 2 Given any initial-state matrix S_0 , the state matrix 5th, 2024 Sage 9.2 Reference Manual: Matrices And Spaces Of Matrices 22 Dense Matrices Over The Real Double Field Using NumPy 435 23 Dense Matrices Over $GF(2)$ Using The M4RI Library 437 24 Dense Matrices Over F_2 For $2 \leq n \leq 16$ Using The M4RIE Library 447 25 Dense Matrices Over $Z/2Z$ For