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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  $A = \begin{pmatrix} 1 & 2 & 3 \\ -1 & 0 & 0 \end{pmatrix}$  And  $B = \begin{pmatrix} -1 & 2 & 3 \\ 3 & 4 & -3 \end{pmatrix} \Rightarrow A+B = \begin{pmatrix} 0 & 4 & 6 \\ 2 & 4 & -3 \end{pmatrix}$  4th, 2024 Similar Matrices And Diagonalizable Matrices  $\begin{pmatrix} 1 & 0 & 0 \\ 0 & -5 & 0 \\ 0 & 0 & 3 \end{pmatrix} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & -5 & 0 \\ 0 & 0 & 3 \end{pmatrix} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 25 & 0 \\ 0 & 0 & 9 \end{pmatrix}$   $B^3 = \begin{pmatrix} 1 & 0 & 0 \\ 0 & -125 & 0 \\ 0 & 0 & 27 \end{pmatrix}$  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 Element Is Raised To The Power K. 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  $\begin{pmatrix} P & \mathbf{1} \\ \mathbf{0} & 1 \end{pmatrix}$ ) 2 Given Any Initial-state Matrix S(0), The State Matrix S(t) is given by  $S(t) = S(0)P^t$  1th, 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  $\mathbb{Z}/\mathbb{Z}$  For