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We have over one million books available in our catalogue for you to explore.CoverTitle PageCopyright PageTable of ContentsCHAPTER 1: SYSTEMS OF LINEAR EQUATIONS AND MATRICESCHAPTER 2: DETERMINANTSCHAPTER 3: EUCLIDEAN VECTOR SPACESCHAPTER 4: GENERAL VECTOR SPACESCHAPTER 5: EIGENVALUES AND EIGENVECTORSCHAPTER 6: INNER PRODUCT SPACESCHAPTER 7: DIAGONALIZATION AND QUADRATIC FORMSCHAPTER 8: LINEAR TRANSFORMATIONSCHAPTER 9: NUMERICAL METHODSCHAPTER 10: APPLICATIONS OF LINEAR ALGEBRAEULA Math 11 Edition Howard Anton, Chris Rorres An automobile mechanic \((M)\) and a body shop \((B)\) use each other's services. For each \(1.00\)dollars of business that \(M\) does, it uses \(0.50\)dollars of its own services and \(0.25\)dollars of \(B\) 's services, and for each \(1.00\)dollars of business that \(B\) does it uses \(0.10\)dollars of its own services and \(0.25\)dollars of \(M\) 's services. (a) Construct a consumption matrix for this economy. (b) How much must \(M\) and \(B\) each produce to provide customers with \(7000\)dollars worth of mechanical work and \(14,000\)dollars worth of body work? Suppose that \(A, B, C, D,\) and \(E\) are matrices with the following sizes: A) \((4 \times 5)\) \(\quad\) B) \((4 \times 5)\) \(\quad\) C) \((5 \times 2)\) \(\quad\) D) \((4 \times 2)\) \(\quad\) E) \((5 \times 4)\) In each part, determine whether the given matrix expression is defined. For those that are defined, give the size of the resulting matrix. (a) \(B A\) (b) \(A B^{T}\) (c) \(A C+D\) (d) \(E(A C)\) (e) \(A-3 E^{T}\) (f) \(E(5 B+A)\) Classify the matrix as upper triangular, lower triangular, or diagonal, and decide by inspection whether the matrix is invertible. [Note: Recall that a diagonal matrix is both upper and lower triangular, so there may be more than one answer in some parts.] (a) \(\left[\begin{array}{ll}2 & 1 \\ 0 & 3\end{array}\right]\) (b) \(\left[\begin{array}{ll}0 & 0 \\ 4 & 0\end{array}\right]\) (c) \(\left[\begin{array}{rrr}-1 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & \frac{1}{5}\end{array}\right]\) (d) \(\left[\begin{array}{ccc}3 & -2 & 7 \\ 0 & 0 & 3 \\ 0 & 0 & 8\end{array}\right]\) In each part, determine whether the equation is linear in \(x_{1}\) \(x_{2},\) and \(x_{3}\). (a) \(x_{1}+5 x_{2}-\sqrt{2} x_{3}=1\) (b) \(x_{1}+3 x_{2}+x_{1} x_{3}=2\) (c) \(x_{1}=-7 x_{2}+3 x_{3}\) (d) \(x_{1}^{-2}+x_{2}+8 x_{3}=5\) (e) \(x_{1}^{3 / 5}-2 x_{2}+x_{3}=4\) (f) \(\pi x_{1}-\sqrt{2} x_{2}=7^{1 / 3}\) Determine whether the matrix is in row echelon form, reduced row echelon form, both, or neither. (a) \(\left[\begin{array}{lll}1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1\end{array}\right]\) (b) \(\left[\begin{array}{lll}1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 0\end{array}\right]\) (c) \(\left[\begin{array}{lll}0 & 1 & 0 \\ 0 & 0 & 1 \\ 0 & 0 & 0\end{array}\right]\) (d) \(\left[\begin{array}{llll}1 & 0 & 3 & 1 \\ 0 & 1 & 2 & 4\end{array}\right]\) (e) \(\left[\begin{array}{lllll}1 & 2 & 0 & 3 & 0 \\ 0 & 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0\end{array}\right]\) (f) \(\left[\begin{array}{ll}0 & 0 \\ 0 & 0 \\ 0 & 0\end{array}\right]\) \((g)\left[\begin{array}{rrrr}1 & -7 & 5 & 5 \\ 0 & 1 & 3 & 2\end{array}\right]\) Find the domain and codomain of the transformation \(T_{A}(\mathbf{x})=A \mathbf{x}.\) (a) \(A\) has size \(3 \times 2\) (b) \(A\) has size \(2 \times 3\) (c) \(A\) has size \(3 \times 3\) (d) \(A\) has size \(1 \times 6\) Suppose that \(A, B, C, D,\) and \(E\) are matrices with the following sizes: A) \((4 \times 5)\) \(\quad\) B) \((4 \times 5)\) \(\quad\) C) \((5 \times 2)\) \(\quad\) D) \((4 \times 2)\) \(\quad\) E) \((5 \times 4)\) In each part, determine whether the given matrix expression is defined. For those that are defined, give the size of the resulting matrix. (a) \(C D^{T}\) (b) \(D C\) (c) \(B C-3 D\) (d) \(D^{T}(B E)\) (e) \(B^{T} D+E D\) (f) \(B A^{T}+D\) Determine whether the matrix is in row echelon form, reduced row echelon form, both, or neither. (a) \(\left[\begin{array}{lll}1 & 2 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 0\end{array}\right]\) (b) \(\left[\begin{array}{lll}1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 2 & 0\end{array}\right]\) (c) \(\left[\begin{array}{lll}1 & 3 & 4 \\ 0 & 0 & 1 \\ 0 & 0 & 0\end{array}\right]\) (d) \(\left[\begin{array}{rrr}1 & 5 & -3 \\ 0 & 1 & 1 \\ 0 & 0 & 0\end{array}\right]\) (e) \(\left[\begin{array}{lll}1 & 2 & 3 \\ 0 & 0 & 0 \\ 0 & 0 & 1\end{array}\right]\) (f) \(\left[\begin{array}{lllll}1 & 2 & 3 & 4 & 5 \\ 1 & 0 & 7 & 1 & 3 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0\end{array}\right]\) \(\left(\begin{array}{l}\mathrm{g} \end{array}\right)\left[\begin{array}{llll}1 & -2 & 0 & 1 \\ 0 & 0 & 1 & -2\end{array}\right]\) Classify the matrix as upper triangular, lower triangular, or diagonal, and decide by inspection whether the matrix is invertible. [Note: Recall that a diagonal matrix is both upper and lower triangular, so there may be more than one answer in some parts.] (a) \(\left[\begin{array}{ll}4 & 0 \\ 1 & 7\end{array}\right]\) (b) \(\left[\begin{array}{cc}0 & -3 \\ 0 & 0\end{array}\right]\) (c) \(\left[\begin{array}{llll}4 & 4 & 0 &\\\ 0 & \frac{3}{5} & 0 \\ 0 & 0 & -2\end{array}\right]\) (d) \(\left[\begin{array}{lll}3 & 0 & 0 \\ 3 & 1 & 0 \\ 7 & 0 & 0\end{array}\right]\) Find the domain and codomain of the transformation \(T_{A}(\mathbf{x})=A \mathbf{x}.\) (a) \(A\) has size \(4 \times 5\) (b) \(A\) has size \(5 \times 4\) (c) \(A\) has size \(4 \times 4\) (d) \(A\) has size \(3 \times 1\) Solution Manual For Elementary Linear Algebra 11th Edition Anton ISBN-13: 978-1118464427 ISBN-10: 1118464427 Edition: 11th Elementary Linear Algebra: Applications Version by Howard Anton Hardcover $158.41. version of Elementary Linear Algebra, Ninth Edition, by Howard Anton. 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