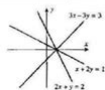


CHAPTER 2 Systems of Linear Equations

EXERCISE SET 2.1

- (a) and (c) are linear. (b) is not linear due to the x_1x_2 term. (d) is not linear due to the x_1^2 term.
- (a) and (d) are linear. (b) is not linear because of the xyz term. (c) is not linear because of the $x_1^{3/5}$ term.
- (a) is linear. (b) is linear if $k \neq 0$. (c) is linear only if $k = 1$.
- (a) is linear. (b) is linear if $m \neq 0$. (c) is linear only if $m = 1$.
- (a), (d), and (e) are solutions; these sets of values satisfy all three equations. (b) and (c) are not solutions.
- (b), (d), and (e) are solutions; these sets of values satisfy all three equations. (a) and (c) are not solutions.
- The three lines intersect at the point (1, 0) (see figure). The values $x = 1, y = 0$ satisfy all three equations and this is the unique solution of the system.



The augmented matrix of the system is

$$\left[\begin{array}{cc|c} 1 & -2 & 3 \\ 1 & 2 & 1 \\ 2 & 1 & 2 \end{array} \right]$$

Add -2 times row 1 to row 2 and add -3 times row 1 to row 3:

$$\left[\begin{array}{cc|c} 1 & -2 & 3 \\ 0 & 6 & -5 \\ 0 & -5 & -7 \end{array} \right]$$

Multiply row 2 by $-\frac{1}{6}$ and add 9 times the new row 2 to row 3:

$$\left[\begin{array}{cc|c} 1 & -2 & 3 \\ 0 & 1 & 0 \\ 0 & 0 & 0 \end{array} \right]$$

From the last row we see that the system is redundant (reduces to only two equations). From the second row we see that $y = 0$ and, from back substitution, it follows that $x = 1 - 2y = 1$.

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Related documents Aditi Hw 2 Homework 2 solutions Aditi Hw 5 Homework 5 solutions 210 1 homework solutions 210 2 homework solutions 210 4 homework solutions 210 5 homework solutions Preview text CHAPTER 2 This system has no solution. A is obtained from B by adding 2 times the first row to the second row. A is obtained from B by If the three lines are On the other hand, if two of the lines coincide, then If the system has infinitely many solutions, then the three lines coincide. In this case any one If B can be The matrix b does not satisfy The matrix c does not satisfy property 1 or The matrix b does not satisfy property The matrix a is in row echelon form but does Solving these equations for the leading variables x_1 and x_3 in terms of the free variables x_2 and Solving these equations Thus, assigning arbitrary values to x_2 and Add 7 times the new row 2 to row 3. Thus, by Theorem Thus the system reduces to only one equation This system has only the trivial Add 4 times row 1 to row 3. To browse Academia.edu and the wider internet faster and more securely, please take a few seconds to upgrade your browser. You can download the paper by clicking the button above. READ PAPER Download pdf. The Chapter 3 60 second inequality says that the entry a_{ii} lies above the diagonal and also above the entries immediately above the diagonal entries. Note that June sales were less than May sales in each of the 15 40 35 90 total number of items all sizes and categories sold in May. DISCUSSION AND DISCOVERY DL. If A is $n \times m$, then A^T is $m \times n$, AA^T is $n \times n$, and $A^T A$ is $m \times m$. Thus $A^T A$ and AA^T both square matrices, so $\text{tr}(A^T A)$ and $\text{tr}(AA^T)$ are both defined. False. If u and v are $1 \times n$ row vectors, then $u^T v$ is an $n \times n$ matrix. In general, any matrix of the form $\begin{pmatrix} 3 & 2 & 3 \\ 2 & 3 & 1 \\ 3 & 1 & 2 \end{pmatrix}$. Note first that none of these vectors can be equal to 0 otherwise S would be linearly dependent. <http://dbmotorbrokers.com/userfiles/a-manual-of-arms.xml>

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Thus a symmetric matrix is completely determined by the entries that lie on or above the main diagonal, and entries that A is an $n \times n$ matrix has n entries on the main diagonal, $n-1$ entries on the diagonal just above the main diagonal, etc. For a symmetric matrix, this is the maximum number of distinct entries the matrix can have. In a skew-symmetric matrix, the diagonal entries are 0 and entries that are symmetrically positioned across the main diagonal are the negatives of each other. The maximum number of distinct entries can be attained by selecting distinct positive entries for the positions above the main diagonal. The entries in the positions below the main diagonal will then automatically be distinct from each other and from the entries on or above the main diagonal. If A is both symmetric and triangular, then A must be a diagonal matrix. WORKING WITH PROOFS PL. On the other hand, if either AA^T or $A^T A$ is invertible, then Theorem 3.3.8 implies that A is invertible. It follows that A , AA^T , and $A^T A$ are all invertible or all singular. The following sequence of row operations reduce A to an upper triangular form U . Then the matrix B can be reduced to A by a series of row interchanges. Thus all of the elementary products are zero. EXERCISE SET 4.3 131 WORKING WITH PROOFS PL. Suppose A is a square matrix, and B is the matrix that is obtained from A by adding k times the i th row to the j th row. Thus, if A is invertible and upper triangular. For example, if $e = \text{True}$. If a , b , c , and d all lie in the same plane, then $a \times b$ and $c \times d$ are both perpendicular to that plane, and thus parallel to each other. Note that the second factor in this polynomial cannot. The eigenspace of A corresponding to λ . If T is defined by the formula. Thus $v_1, v_2,$

and v_3 are linearly independent, and it forms a basis for \mathbb{R}^3 . On the other hand, since the vectors $v_1, v_2, v_3,$ and v_4 are linearly dependent. This is in fact true for any invertible matrix
E. <http://enidental.com/userfiles/20200908091858.xml>

The rows of EA are linear combinations of the rows of A ; thus it is always true that $\text{row}(EA) \subseteq \text{row}(A)$. The row space of an invertible $n \times n$ matrix is all of \mathbb{R}^n since its rows form a basis for \mathbb{R}^n . On the other hand, the row space of a singular matrix is a proper subspace of \mathbb{R}^n since its rows are linearly dependent and do not span all of \mathbb{R}^n . WORKING WITH PROOFS Pt. Conversely, suppose that c holds. Thus it is sufficient to prove that the latter is equivalent to the condition that Suppose that one of the rows of A is a scalar multiple of the other. This corresponds to the fact that A does not have full column rank but. This corresponds to the fact. Let B be the $m \times r$ submatrix of A having these vectors as its columns. Then B also has rank r and thus has r linearly independent rows. Chapter 7 226 8. Let A be the matrix having the given vectors as its columns. Let A be the matrix having the given vectors as its columns. Thus $(1, 3, 1, 0)$ and $(4, 7, 0, 1)$ form a basis for $\text{null}(A)$. From this we conclude that the 1st, 2nd, 3rd, and 4th columns of A are the pivot columns, and so these three columns form a basis for $\text{col}(A)$. Thus, using Formula 5, the projection of x on $\text{col}(A)$ is given by. The reduced row echelon form of P is. Let A be the matrix having the given vectors as its columns. But such a polynomial if not identically zero can have at most m distinct roots. WORKING WITH PROOFS Pt. If s WORKING WITH PROOFS Pt. The diagonalizing matrix if it exists is not unique! ; True. Vectors from different eigenspaces correspond to different eigenvalues and are therefore linearly independent. The diagonalizing matrix I is not unique. It depends on the choice of bases for the eigenspaces. Note that $\text{dim}(\text{null}(A)) = 2$ if $\lambda = 0$ and $\text{dim}(\text{null}(A)) = 1$ if $\lambda = 4$. It follows from part b that the sum of the dimensions of the eigenspaces of A is equal to n ; thus A is diagonalizable. Furthermore, since A is symmetric, the eigenspaces corresponding to different eigenvalues are orthogonal.

Since the sum of the dimensions is n , this will be an orthonormal basis consisting of eigenvectors of A . Thus A is orthogonally diagonalizable. Thus the Similarly, 15. It depends on the choice of the extended orthonormal basis for \mathbb{R}^3 . Would you like to change to the United States site This is a dummy description. This is a dummy description. This is a dummy description. This is a dummy description. As rigorous practice is the key to success in any mathematics course, this book is an important resource for any algebra student using Contemporary Linear Algebra in class. Full solutions include graphs and diagrams as needed, and answers to Discussion and Discovery questions include the mathematical reasoning behind the correct solution. Smart students make use of all resources at their disposal, and this solutions manual is an essential tool for targeted, efficient study time. He worked in the manned space program at Cape Canaveral in the early 1960s. In 1968 he became a research professor of mathematics at Drexel University in Philadelphia, where he taught and did mathematical research for 15 years. In 1983 he left Drexel as a Professor Emeritus of Mathematics to become a fulltime writer of mathematical textbooks. There are now more than 150 versions of his books in print, including translations into Spanish, Arabic, Portuguese, French, German, Chinese, Japanese, Hebrew, Italian, and Indonesian. He was awarded a Textbook Excellence Award in 1994 by the Textbook Authors Association, and in 2011 that organization awarded his Elementary Linear Algebra text its McGuffey Award. Discover everything Scribd has to offer, including books and audiobooks from major publishers. Report this Document Download Now Save Save Solution Manual Contemporary Linear Algebra by H. For Later 100% 3 100% found this document useful 3 votes 2K views 259 pages Solution Manual Contemporary Linear Algebra by Howard Anton, Robert C.

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row. Note that the second factor in this polynomial cannot. The eigenspace of A corresponding to λ . The reduced row echelon form of P is. Let A be the matrix having the given vectors as its columns. The reduced row echelon form of A is. The diagonalizing matrix if it exists is not unique! ; True. Vectors from different eigenspaces correspond to different eigenvalues and are therefore linearly independent. The diagonalizing matrix P is not unique. It depends on the choice of bases for the eigenspaces. Note that $\sin^{-1}(\frac{1}{2}) = \frac{\pi}{6}$ and $\sin^{-1}(\frac{\sqrt{3}}{2}) = \frac{\pi}{3}$. The same linear operator.

It follows from part b that the sum of the dimensions of the eigenspaces of A is equal to n ; thus A is diagonalizable. Furthermore, since A is symmetric, the eigenspaces corresponding to different eigenvalues are orthogonal. Since the sum of the dimensions is n , this will be an orthonormal basis consisting of eigenvectors of A . Thus A is orthogonally diagonalizable. Similarly, 15. We are a nonprofit group that runs this website to share documents. We need your help to maintain this website. Solutions Manuals are available for thousands of the most popular college and high school textbooks in subjects such as Math, Science Physics, Chemistry, Biology, Engineering Mechanical, Electrical, Civil, Business and more. Understanding Contemporary Linear Algebra homework has never been easier than with Chegg Study. Unlike static PDF Contemporary Linear Algebra solution manuals or printed answer keys, our experts show you how to solve each problem step by step. No need to wait for office hours or assignments to be graded to find out where you took a wrong turn. You can check your reasoning as you tackle a problem using our interactive solutions viewer. Plus, we regularly update and improve textbook solutions based on student ratings and feedback, so you can be sure you're getting the latest information available. Hit a particularly tricky question. Bookmark it to easily review again before an exam. The best part As a Chegg Study subscriber, you can view available interactive solutions manuals for each of your classes for one low monthly price. Why buy extra books when you can get all the homework help you need in one place Just post a question you need help with, and one of our experts will provide a custom solution. You can also find solutions immediately by searching the millions of fully answered study questions in our archive. Asking a study question in a snap just take a pic. The 13 digit and 10 digit formats both work. Please try again. Please try again.

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