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6. Column Space and Nullspace Linear  
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Matrices *Strang Linear Algebra Instructors  
Manual*

Solution Manual for: Linear Algebra by  
Gilbert Strang John L. Weatherwax?  
January 1, 2006 Introduction A Note on  
Notation In these notes, I use the symbol  $\mathcal{E}$   
to denote the results of elementary  
elimination matrices used to transform a  
given matrix into its reduced row echelon  
form. Thus when looking for the  
eigenvectors for a matrix like  $A = \begin{pmatrix} 0 & 0 & 2 & 0 & 1 \\ 0 & 0 & 0 & 2 & 0 \end{pmatrix}$  rather than say, multiplying  $A$  on ...

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*Gilbert Strang*

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The row picture for  $T A = I$  has 3  
perpendicular planes  $x = 2$  and  $y = 3$  and  $z = 4$ .  
Those are perpendicular to the  $x$  and  $y$  and  
 $z$  axes:  $z = 4$  is a horizontal plane at height  
4. The column vectors are  $i = (1,0,0)$  and  $j$   
 $= (0,1,0)$  and  $k = (0,0,1)$ . Then  $b = (2,3,4)$   
is the linear combination  $2i + 3j + 4k$ .

*MANUAL FOR INSTRUCTORS -  
Mathematics*

the linear transformation  $T$ . Key point:  
Column space of matrix matches range of  
transformation. 8 We don't know  $T(w)$   
unless the  $w$ 's are the same as the  $v$ 's. In  
that case the matrix is  $A$ . 9 Rank of  $A = 2$

# Where To Download Strang Linear Algebra Instructors

**Manual** = dimension of the range of  $T$ . The outputs  $v$  (column space) match the outputs  $T(v)$  (the range of  $T$ ). The “output space”  $W$  is like  $\mathbb{R}^m$  ...

## *MANUAL FOR INSTRUCTORS - Mathematics*

The nonzero rows of  $U$  come from edges 1 and 3 in a tree. The zero row comes from the loop (all 3 edges). 4For the matrix in Problem 3,  $Ax = b$  is solvable for  $b = (1, 1, 0)$  and not solvable for  $b = (1, 0, 0)$ . For solvable  $b$  (in the column space),  $b$  must be orthogonal to  $y = (1, 1, 1)$ ; that combination of rows is the zero row, and  $b$

## *MANUAL FOR INSTRUCTORS - Mathematics*

Solutionsto Exercises 153 8 This  $P$  is invertible and unitary.  $2 = 0 \ 0 \ 1 \ 1 \ 0 \ 0 \ 0$   
 $1 \ 0$ ,  $P^3 = ?i \ ?i \ ?i = ?iI$ . Then  $P^{100} =$   
 $(?i)^{33}P = ?iP$ . The eigenvalues of  $P$  are the

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Manual roots of  $z^3 = i$ , which are  $i$  and  $ie^{2\pi i/3}$  and  $ie^{4\pi i/3}$ . 9 One unit eigenvector is certainly  $x_1 = (1, 1, 1)$  with  $\lambda_1 = i$ . The other eigenvectors

## *MANUAL FOR INSTRUCTORS - Mathematics*

The combinations give (a) a line in  $\mathbb{R}^3$  (b) a plane in  $\mathbb{R}^3$  (c) all of  $\mathbb{R}^3$ .  $2v + w = (2, 3)$  and  $\lambda = (6, 1)$  will be the diagonals of the parallelogram with  $v$  and  $w$  as two sides going out from  $(0, 0)$ . 3 This problem gives the diagonals  $v + w$  and  $\lambda$  of the parallelogram and asks for the sides: The opposite of Problem 2.

## *MANUAL FOR INSTRUCTORS - Mathematics*

46 Solution to Exercises 10 The only subspaces are (a) the plane with  $b_1 = 2$  (d) the linear combinations of  $v$  and  $w$  (e) the plane with  $b_1 + b_2 + b_3 = 0$ . 11 (a) All

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matrices  $\begin{pmatrix} a & b & 0 \\ 0 & 0 & 0 \end{pmatrix}$  (b) All matrices  $\begin{pmatrix} a & a & 0 \\ 0 & 0 & 0 \end{pmatrix}$  (c)

All diagonal matrices. 12

For the plane  $x + y + 2z = 4$ , the sum of  $(4, 0, 0)$  and  $(0, 4, 0)$  is not on the plane. (The key is that this plane does not go through  $(0, 0, 0)$ .)

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*Mathematics*

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1The combinations give (a) a line in  $\mathbb{R}^3$ (b)  
a plane in  $\mathbb{R}^3$ (c) all of  $\mathbb{R}^3$ .  $2v + w = (2, 3)$  and  $z =$   
(6 1) will be the diagonals of the



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parallelogram with  $v$  and  $w$  as two sides going out from  $(0,0)$ . This problem gives the diagonals  $v+w$  and  $v-w$  of the parallelogram and asks for the sides: The opposite of Problem 2. In this example  $v = (3,3)$  and  $w = (2,2)$ .

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