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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  $A \dots$

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**7. Solving  $Ax = 0$ : Pivot Variables, Special Solutions**

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Solutionsto Exercises 13 9 (a)  $Ax = (18, 50)$  and (b)  $= (3, 4, 5)$ . 10  
Multiplyingas linear combinationsof the columns gives the same



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$Ax = (18, 5, 0)$  and  $(3, 4, 5, 5)$ . By rows or by columns: 9 separate multiplications when  $A$  is 3 by 3. 11  $Ax$  equals  $(14, 22)$  and  $(0, 0)$  and  $(9, 7)$ . 12  $Ax$  equals  $(z, y, x)$  and  $(0, 0, 0)$  and  $(3, 6)$ . 13 (a)  $x$  has  $m$  components and  $A$  has  $m$  components (b) Planes from each equation

### MANUAL FOR INSTRUCTORS

70 Solution to Exercises Problem Set 4.1, page 202 1 Both nullspace vectors will be orthogonal to the row space vector in  $\mathbb{R}^3$ . The column space of  $A$  and the nullspace of  $A^T$  are perpendicular lines in  $\mathbb{R}^2$  because  $\text{rank} = 1$ . 2 The nullspace of a 3 by 2 matrix with rank 2 is  $\{0\}$  (only the zero vector because the 2 columns are independent). So  $\dim N = 0$ , and row space =  $\mathbb{R}^2$ .

### MANUAL FOR INSTRUCTORS

Linear algebra moves steadily to  $n$  vectors in  $m$ -dimensional space. We still want combinations of the columns (in the column

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space). We still get  $m$  equations to produce  $b$  (one for each row). Those equations may or may not have a solution. They always have a least-squares solution. The interplay of columns and rows is the heart of linear algebra.

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