

## Introduction To Linear Algebra Strang Solutions

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### Introduction To Linear Algebra Strang

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A wonderful theorem of linear algebra says that the three rows are not independent either. The third row must lie in the same plane as the first two rows. Some combination of rows 1 and 2 will produce row 3. You might find that combination quickly (I didn't).

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Solutionsto Exercises 13 9 (a)  $Ax = \begin{pmatrix} 18 \\ 50 \end{pmatrix}$  and (b)  $b = \begin{pmatrix} 3 \\ 4 \\ 5 \end{pmatrix}$ . 10 Multiplyingas linear combinations of the columns gives the same  $Ax = \begin{pmatrix} 18 \\ 50 \end{pmatrix}$  and  $\begin{pmatrix} 3,4,5,5 \end{pmatrix}$ . By rows or by columns: 9 separate multiplications when A is 3 by 3. 11  $Ax$  equals  $\begin{pmatrix} 14 \\ 22 \end{pmatrix}$  and  $\begin{pmatrix} 0 \\ 0 \end{pmatrix}$  and  $\begin{pmatrix} 9 \\ 7 \end{pmatrix}$ . 12  $Ax$  equals  $\begin{pmatrix} z,y,x \end{pmatrix}$  and  $\begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$  and  $\begin{pmatrix} 3 \\ 6 \end{pmatrix}$ . 13 (a)  $x$  has  $n$  components and  $A$  has  $m$  components (b) Planes from each equation

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This course covers matrix theory and linear algebra, emphasizing topics useful in other disciplines such as physics, economics and social sciences, natural sciences, and engineering. It parallels the combination of theory and applications in Professor Strang's textbook Introduction to Linear Algebra.

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