

## Introduction To Linear Algebra Strang 4th Edition 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)  $Ax = (18, .5, 0)$  and (b)  $x = (3, 4, 5)$ . 10 Multiplyingas linear combinationsof the columns gives the same  $Ax = (18, .5, 0)$  and  $(3, 4, 5)$ . By rows or by columns: 9 separate multiplicationswhen  $A$  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)  $x$  hasn components and  $A$  m components (b) Planes from each equation

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