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### Introduction To Linear Algebra Strang

Table of Contents for Introduction to Linear Algebra (5th edition 2016) 1 Introduction to Vectors 1.1 Vectors and Linear Combinations 1.2 Lengths and Dot Products 1.3... 2 Solving Linear Equations 2.1 Vectors and Linear Equations 2.2 The Idea of ...

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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

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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)  $Ax = (18, 50)$  and (b)  $= (3, 4, 5)$ . 10 Multiplyingas linear combinationsof the columns gives the same  $Ax = (18, 5, 0)$  and  $(3, 4, 5, 5)$ . 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)  $x$  has  $n$  components and  $A$  has  $m$  components (b) Planes from each equation

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