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Chapter 1 (Introduction to Vectors)  
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The crucial operation in linear algebra is to take linear combinations of column vectors. This is exactly the result of a

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matrix-vector multiplication.  $Ax$  is a combination of the columns of  $A$ . When we take all combinations  $Ax$  of the column vectors, we get the column space.

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10 Multiplying a linear combination of the columns gives the same  $Ax = (18, 5, 0)$  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  $n$  components and  $A$  is  $m$



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components (b) Planes from each equation

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