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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 m components (b) Planes from each equation

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Chapter 1 (Introduction to Vectors)
Section 1.1 (Vectors and Linear Combinations) Problem 16
(dimensions of a cube in four dimensions) We can generalize Problem 15 by stating that the corners of a cube in four dimensions are given by $n(1,0,0,0)+m(0,1,0,0)+l(0,0,1,0)+p(0,0,0,1)$, for indices n,m,l,p taken from $\{0,1\}$.

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result of a 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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作者簡介 Gilbert Strang
was an undergraduate at MIT and a Rhodes Scholar at Balliol College, Oxford. His Ph.D. was from UCLA and since then he has taught at MIT.

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