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Gilbert Strang is a Professor of
Mathematics at Massachusetts Institute of

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Technology and an Honorary Fellow of Balliol College, of the University of Oxford, UK. His current research interests include linear algebra, wavelets and filter banks, applied mathematics, and engineering mathematics.

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[Gilbert Strang's Homepage](#)

Image taken from Introduction to Linear Algebra – Strang A plane can be described by a basis of vectors that span the plane. We let these vectors form the column space of A . Our error term will...

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These video lectures of Professor Gilbert Strang teaching 18.06 were recorded live in the Fall of 1999. Support for the video production was provided by the Lord Foundation of Massachusetts under a grant to the MIT Center for Advanced Educational Services.

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Professor Strang has published eleven books: Differential Equations and Linear Algebra (2014) Introduction to Linear Algebra (1993, 1998, 2003, 2009) Linear Algebra and Its Applications (1976, 1980, 1988, 2005) An Analysis of the Finite Element Method, with George Fix (1973, 2008) Introduction to Applied Mathematics (1986) Calculus (1991)

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Exercises on the geometry of linear equations Problem 1.1: (1.3 #4.

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Find a combination $x_1 w_1 + x_2 w_2 + x_3 w_3$

that gives the zero vector: $\begin{bmatrix} 1 & 4 & 7 \\ 2 & 5 & 8 \end{bmatrix} \cdot \begin{bmatrix} w_1 \\ w_2 \\ w_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$

$\begin{bmatrix} 1 & 4 & 7 \\ 2 & 5 & 8 \end{bmatrix} \cdot \begin{bmatrix} w_1 \\ w_2 \\ w_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$

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May 15 in JNSN-Ice Rink. If you know you will need to miss an exam for an athletic game, please let your TA know early.

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the eigenvectors for a matrix like $A = \begin{pmatrix} 0 & 0 \\ 2 & 0 \\ 1 & 0 \\ 0 & 0 \\ 0 & 2 \end{pmatrix}$

[Linear Algebra for Everyone, Gilbert Strang](#)

There is newer edition of the book:
Strang, Gilbert. Introduction to Linear Algebra. 5th ed. Wellesley-Cambridge Press, 2016. ISBN: 9780980232776. NOTE: More material on linear algebra (and much more about differential equations) is in Professor Strang's 2014 textbook

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Differential Equations and Linear Algebra.

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The 18.06 class soon became popular with science and engineering students, at MIT and around the world. Now in its fifth edition, Strang's textbook "Introduction to Linear Algebra" has been translated into French, German, Greek, Japanese, and Portuguese. More than 40 years later, about a third of MIT students take this course.

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100 Solutionsto Exercises 10 $\det(A - \lambda I) = d^2 - 1 - .4\lambda + 0$ so A has $\lambda_1 = 1$ and $\lambda_2 = 0$ with $x_1 = (1, 2)$ and $x_2 = (1, -1)$. A^∞ has $\lambda_1 = 1$ and $\lambda_2 = 0$ (same eigenvectors). A_{100} has $\lambda_1 = 1$ and $\lambda_2 = (0.4)^{100}$ which is near zero. So A_{100} is very near A^∞ : same eigenvectors and close eigenvalues.

11 Columnsof $A - \lambda_1 I$ are in the nullspace of A because $M = \begin{pmatrix} 2 & 1 \\ 1 & 1 \end{pmatrix}$ is the zero matrix [this is the ...

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