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From the series: Differential Equations and Linear Algebra Gilbert Strang, Massachusetts Institute of Technology (MIT) Linear equations include  $dy/dt = y$ ,  $dy/dt = -y$ ,  $dy/dt = 2ty$ . The equation  $dy/dt = y * y$  is nonlinear.

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## **Welcome! [math.mit.edu]**

MAT2705 Differential Equations with Linear Algebra. Course Goals and Objectives; Elementary use of MAPLE is a required supporting tool in the entire MAT1500-1505-2500-2705 sequence of Calculus and Differential Equations with Linear Algebra for Science and Engineering majors. For use in this course, see below. Text: Differential Equations and Linear Algebra [first 7 chapters]

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students and life-long learners to enjoy. About the Instructors Gilbert Strang is the MathWorks Professor of Mathematics at MIT. His research focuses on mathematical analysis, linear algebra and PDEs.

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