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The differential equation (7.1) gives us the slope $f(x_0, y_0)$ of the tangent line to the solution curve $y = y(x)$ at the point (x_0, y_0) . With a small step size $\Delta x = x_1 - x_0$, the initial condition (x_0, y_0) can be marched forward to (x_1, y_1) along the tangent line using Euler's method (see Fig.7.1) $y_1 = y_0 + \Delta x f(x_0, y_0)$.

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Differential Equations and Linear Algebra by Kiryl Tsishchanka: SYLLABUS (9:30am-11:00am) SYLLABUS (2:00pm-3:30pm) SYLLABUS (3:30pm-5:00pm) GRADE CALCULATOR: Course Evaluations: WolframAlpha: Problems: Tests: Weeks: Dates:

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Chapter 2: Second Order Equations 2.1 Second Derivatives in Science and Engineering
Chapter 3: Graphical and Numerical Methods 3.2 Sources, Sinks, Saddles, and Spirals
Chapter 4: Linear Equations and Inverse Matrices 4.1 Two Pictures of Linear Equations

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Topics include first-order differential equations, higher-order linear differential equations with constant coefficients, an introduction to linear algebra, linear systems, the Laplace Transform, series solutions, and other numerical methods (Euler, Runge-Kutta). If time permits, Picard's Theorem will be proved.

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In mathematics, differential rings, differential fields, and differential algebras are rings, fields, and algebras equipped with finitely many derivations, which are unary functions that are linear and satisfy the Leibniz product rule. A natural example of a differential field is the field of rational functions in one variable over the complex numbers, $(\mathbb{C}(x))$, where the derivation is ...

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