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2.2Fixed Points and Stability Analyze the following equations graphically. In each case, sketch the vector field on the real line, find all the fixed points, classify their stability, and sketch the graph of x(t). 2.2.1  $x' = 4x^2 - 16$  Theanalyticalsolutionis:

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S. Strogatz, [Nonlinear Dynamics and Chaos](#) (Addison-Wesley, 1994) S. Neil Rasband, [Chaotic Dynamics of Nonlinear Systems](#) (Wiley, 1990) J. Guckenheimer and P. Holmes, [Nonlinear Oscillations, Dynamical Systems, and Bi-furcations of Vector Fields](#) (Springer, 1983) E. A. Jackson, [Perspectives of Nonlinear Dynamics](#), 2 vols. (Cambridge, 1991)

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The textbook and accompanying Student Solutions Manual are aimed at newcomers to nonlinear dynamics and chaos, especially students taking a first course in the subject. Complete with graphs and worked-out solutions, this manual demonstrates techniques for students to analyze differential equations, bifurcations, chaos, fractals, and other subjects Strogatz explores in his popular book.

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Existence, uniqueness and smooth dependence of solutions of ODE's on initial conditions and parameters. The role of computers in nonlinear dynamics, a simple example of a numerical solution method for ODEs (improved Euler scheme), Outline of rest of course. Bifurcations in one dimensional systems (3 weeks)

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