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*Nonlinear Dynamics And Chaos Solutions Manual*  
Steven Strogatz is an applied mathematician who works in the areas of nonlinear dynamics and complex systems, often on topics inspired by the curiosities of everyday life. He loves finding math in places where you'd least expect it—and then using it to illuminate life's mysteries, big and small.

## Nonlinear Dynamics and Chaos 2nd Edition, Steven H. Strogatz

2.2 Fixed 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  $x' = 4x^2 - 16$  The analytical solutions is:

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Non-Linear Dynamics Homework Solutions Week 8 Chris Small March 10, 2007 Please email me at [email protected] with any questions or concerns regarding these solutions. 8.1.1 For the following prototypical examples, plot the phase portrait as  $\mu$  varies. a)  $\dot{x} = \mu x - x^2 = -y \dot{x} - y \dot{y}$  In order to do this we first find the nullclines.

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Nonlinear Dynamics and Chaos by Strogatz is an introduction to the qualitative study of systems of first degree differential equations. Topics included through the first six chapters (which is as far as I have currently read) are bifurcations, stability of fixed points, linearization about fixed points, and many others.