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Steven

Strogatzusers.uoa.grusers.uoa.gr2.2Fixed 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  $\dot{x} = 4x^2 - 16$

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and chaos (with applications to physics  
...Read Nonlinear Dynamics and Chaos  
(Strogatz) Chapter 7 Pages 198-202 and  
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and re-read sections in the book that still  
confuse you. Please come to class on  
Wednesday with questions if you have  
them! Homework Week 4 - Due Thursday  
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**Nonlinear Dynamics and Chaos - Steven Strogatz, Cornell ...**

Steven Henry Strogatz (/ ' s t r ɒ g æ t s /; born August 13, 1959) is an American mathematician and the Jacob Gould Schurman Professor of Applied Mathematics at Cornell University. He is known for his work on nonlinear systems, including contributions to the study of synchronization in dynamical systems, for his research in a variety of

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The analytical solution is:

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