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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  $\dot{x} = 4x^2 - 16$  The analytical solution is:

### NLD exercises and solutions - Electrical Engineering

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.

### Steven Strogatz

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### Steven Strogatz | Department of Mathematics Cornell Arts ...

Steven Henry Strogatz (/ˈstrɒʊɡæts/; 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 areas of applied mathematics, including mathematical biology and complex network theory, and for his outreach work in the public communication of mathematics.

**Steven Strogatz - Wikipedia**

The standard characteristic polynomial is given as, Here, is the corresponding Eigen value, is and is. The value of can be calculated as,. Substitute, 4 for a, 1 for d and solve,. The value of can be calculated as,. Substitute, 4 for a,-1 for b, 2 for c, 1 for d and solve,. Substitute, 5 for, 6 for in the above standard characteristic polynomial and solve,. Thus, it is proved that the ...

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