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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 $\dot{x} = 4x^2 - 16$

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—Robert L Devaney, Boston University
and author of A First Course in Chaotic
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