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lyapunov analysis can be used to show boundedness of the solution of the state equation even when there is no equilibrium point at the origin to motivate the idea consider the scalar equation $\dot{x} = -\delta \sin x$ $x(0) = a$ $\delta > 0$ which has no equilibrium points and whose solution is given by $x(t) = \arcsin(a e^{-\delta t})$

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