Numerical Computing II

Homework 22: Initial Value Problems for Ordinary Differential Equations

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$$v' = \epsilon (1 - u^2)v - u. \tag{1}$$

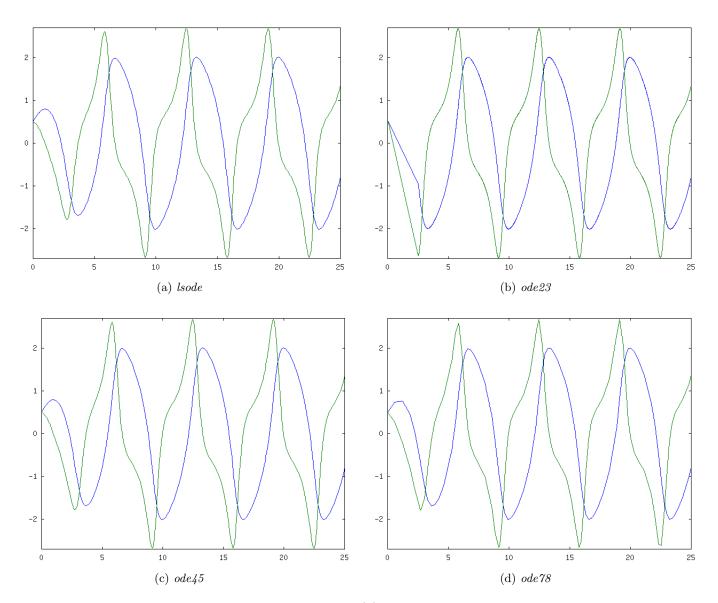


Figure 1: Graph of (1) with $\epsilon = 1$

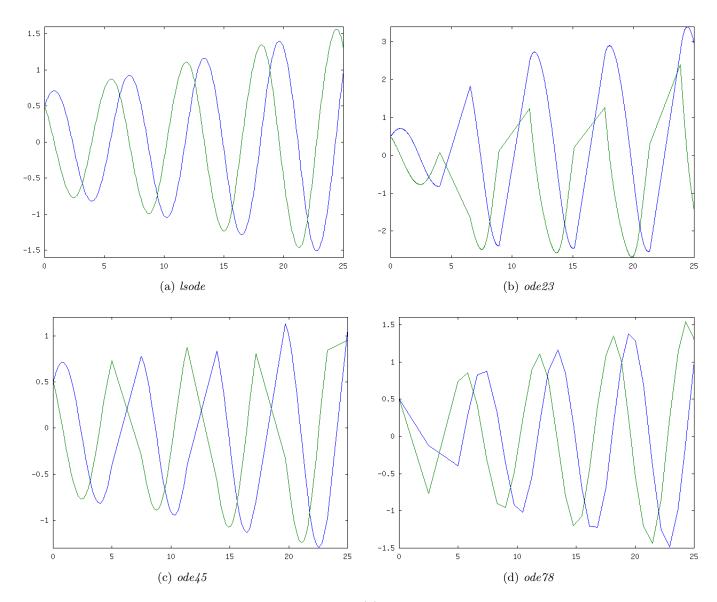


Figure 2: Graph of (1) with $\epsilon=.1$

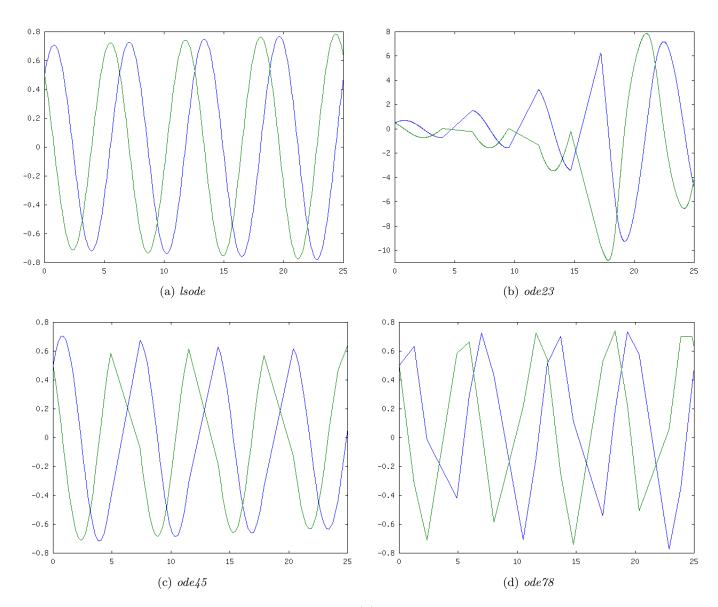


Figure 3: Graph of (1) with $\epsilon = .01$