Chart, diagram

Description automatically generated with medium confidenceChart

Description automatically generatedChart, line chart

Description automatically generatedChart

Description automatically generated

## Problem 2

### 2.1

### 2.2

### 2.3

Not possible in 1D. Equilibrium points must alternate between stable and unstable.

### 2.4

+1

### 2.5

Not possible if continuously differentiable

## Problem 3