MAE 281A
NONLINEAR SYSTEMS Prof. M. Krstic

Homework 4

Due February 15, 2000

1. Khalil, Exercise 3.3, Parts (1) and (2).

2. Khalil, Exercise 3.12.
   Hint: Use Chetaev's theorem with $V(x) = -\frac{1}{6}x_1^6 + \frac{1}{4}x_2^4$.

3. Khalil, Exercise 3.17, Parts (a) and (b).
   Hint: In Part (b), use LaSalle's theorem.