Math 5525 – Homework V

(Due Wednesday, April 18)

From the text.

Chapter	Problems
9	1ace, 4, 5, 6, 8, 9, 11, 12, 13, 16

Additional instructions and hints: For ch.9 problems 1ace, in addition to the instructions in the book, also find all the equilibrium points and use linearization to classify them as stable or unstable nodes, stable or unstable spirals, saddles, etc. For problem 4, you will need to use the Lyapunov function described in the text.