Third Problem Set

Suggested Readings (textbook): Chapters 6-7.

Suggested Problems (textbook):
Ch. 6: 6.3.10 6.3.11 6.5.8 6.5.13 6.6.3 6.8.7
Ch. 7: 7.1.9 7.2.5 7.2.7 7.2.16
Note: Part b of 6.5.13 is actually wrong. Figure out what actually

happens when epsilon < 0.

Note: For 6.8.7 you will need index theory, but it will not be enough. Dulac's criterion (for example) will also be needed.

Problems to hand in for grading (textbook) Ch. 6: 6.3.13 6.3.16 6.5.7 6.5.19 Ch. 7: 7.2.6

NOTE:

you can use the MatLab® scripts: PHPLdemoA, PHPLdemoB, PHPLplot or PHPLplot_v2

with the problems requiring computer plotting.

MATLAB® is a trademark of The MathWorks, Inc.