MIT (Fall 2002) 18.385

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 6.8.9
Ch. 7: 7.2.6

NOTE: you can use the MatLab® scripts:
PHPLdemoA, PHPLdemoB, PHPLplot or PHPLplot_v2
with the problems requiring computer plotting.

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