Homework 1, ENEE641/ENME808X, Fall 2016

Due: September 19, in class.

Exercises 3.1-1, 3.1-2, 3.1-4 and 3.1-8 on p. 52-53.

[2nd edition: p. 50-51]

Problem 4-1 p. 107.

[2nd edition:

a. T(n) = 2T(n/2) + n4

b. T(n) = T(7n/10) + n

Problem 4-1, items c, d, e and f, p. 85

g. T(n)= T(n-2) + n2 ]

Problem A (not from the textbook):

Consider the recurrence T(n) = 2T(n/2) + n log n.

Can you solve it using the Master theory studied in class? If you can, solve it. If not, explain why.