

Homework 1, ENEE641/ENME808X, Fall 2017

Due: September 18, 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. $T(n) = 2T(n/2) + n^4$

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

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

g. $T(n) = T(n-2) + n^2$]

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.