

Homework 6

(Due date: 2014/5/28)

This assignment covers Ch12 and Ch13 of the textbook. The full credit is 100 points. For each question, detailed derivation processes and accurate numbers are required to get full credit.

- 1) (10 points) Problem 12.23(a-b) of the textbook (p484).
- 2) (10 points) Problem 12.31 of the textbook (p485).
- 3) (20 points) Problem 12.40(a, c) of the textbook (p486).
- 4) (10 points) Problem 13.13 of the textbook (p530), while the voltage source is changed from 20 V to 80 V.
- 5) (10 points) Problem 13.19 of the textbook (p531), while the dependent current source is changed from $6i_\beta$ to i_β .
- 6) (10 points) Problem 13.42 of the textbook (p534), while the current source is changed from $1.5u(t)$ A to $3u(t)$ A.
- 7) (10 points) Problem 13.64 of the textbook (p538), while the capacitances in (a) is changed from 40 nF to 20 nF.

- 8) (20 points) Problem 13.94(a,b,c) of the textbook (p543).