

CASE WESTERN RESERVE UNIVERSITY
Case School of Engineering
Department of Electrical Engineering and Computer Science

ENGR 210. Introduction to Circuits and Instruments (4)

Homework Set No. 13

References: [T&R4] sections 7-1 to 7-5.

Issued 4/20/04

Due: See Note Below

- 1) (5 pts) Problem 7-2, p. 337. Basic first order linear differential circuit equation with initial condition.
- 2) (5 pts) Problem 7-5, p. 337. Basic switched circuit with initial condition.
- 3) (5 pts) Problem 7-10, p. 338. Forced and natural response.
- 4) (5 pts) Problem 7-17, p. 338. Switched inductive circuit.
- 5) (5 pts) Problem 7-19, p. 338. Switched capacitive circuit.
- 6) (5 pts) Problem 7-25, p. 340. First order capacitive circuit response.
- 7) (5 pts) Problem 7-27, p. 340. First order inductive circuit response.

NOTE: This HW assignment is not to be turned in but is presented only as an example of what you should know about first-order circuits for the final exam. A solution set will be provided later.

If you need to do a make-up hw assignment you should contact Prof. Merat.