THE CITADEL
THE MILITARY COLLEGE OF SOUTH CAROLINA

Department of Electrical and Computer Engineering

ELEC 202 Electric Circuit Analysis II                                   Homework Assignment 3

Part I: due February 1st, 2010

1. (a) What value of capacitance and what value of inductance have an impedance with a
    magnitude of 12 Ω at a frequency of 800 Hz?
    (b) What would be the reactance of this C and this L at 1.6 kHz?
    (c) What would be the impedance of this inductance and capacitance connected in series at
        a frequency of 1.2 kHz?
2. Problem 9.39 (text)
3. Problem 9.54 (text)
4. Problem 9.55 (text)

Part II: due February 3rd, 2010

5. Problem 9.66 (text)
6. Problem 9.77 (text)

Reading Assignment: Chapter 9