University of Portland
School of Engineering

EE 261
Fall 2016
A. Inan

Homework # 3

(Assigned on September 19, 2016; Due date: September 26, 2016, 1:35p.m.)
These problems are assigned from *Introduction to Electric Circuits* by Svoboda/Dorf
(John Wiley, 9th edition, 2014, ISBN# 978-1-118-47750-2, pages 204-218):

P 5.2-4. Source transformation.
P 5.2-6. Source transformation.
P 5.3-4. Superposition principle.
P 5.3-6. Superposition principle.
P 5.3-14. Determine i_a and *R*.
P 5.4-2. Thévenin equivalent circuit.
P 5.4-4*. Thévenin equivalent circuit.
P 5.5-4. Norton equivalent circuit.
P 5.6-3. Maximum power transfer theorem.
P 5.6-5. Thévenin equivalent circuit.
P 5.9-3. Checking prelab calculations.
P 5.9-4. Is your lab partner correct?
*Optional.

Please use the following guidelines for your homework solutions:
1) On the first sheet, at the top center, write: Homework #3-Solutions.
2) Provide your full name on the upper right corner of the first sheet.
3) Also write: EE 261/Fall 2016 on the upper left corner of the first sheet.
4) Solve each problem on a separate sheet unless your solution is very short.
5) Box all of your answers.
6) Staple your solutions in the above order before you turn them in.

Please turn in your homework on time.

Important reminder:
EE 261-Midterm Exam # 1 is on Friday, October 7, 2016, 1:35-2:30p.m.
Closed book exam, only 1 formula sheet is allowed.