University of Portland
School of Engineering

EE 261
Fall 2012
A. Inan

Homework # 4
(Assigned on October 1, 2012; Due date: October 8, 2012, 1:35p.m.)
These problems are assigned from Introduction to Electric Circuits by Dorf/Svoboda

P 5.2-5. Source transformation.
P 5.3-5. Superposition principle.
P 5.3-16. 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 5.6-6. Thévenin equivalent circuit.
P 5.9-3. Checking prelab calculations.
*Optional.

Please follow these guidelines for providing your homework solutions:
1) On the first sheet, at the top, indicate in the middle that this is EE 261/Fall 2012/HW #4
   Solutions and provide your full name on the right upper corner of the sheet.
2) Solve each problem on a separate sheet unless there is a solution which is very short.
3) Do not use the back of the sheets unless you have to.
4) Staple your solutions in the above order before you turn them in.
Please turn in your homework on time. The solutions for each homework assignment will be
provided as a separate handout on the due date.