Operations Research I: Deterministic Models

Homework Set # 1

Due on blackboard by 9:50am, Thursday, September 7, 2017.
Read Sections 1-5 of Chapter 3.
Do the following problems. [WV] is Introduction to Mathematical Programming by Winston and Venkataramanan, [W] is Operations Research Applications and Algorithms by Winston. When textbook is not mentioned, it is the same problem number and page number in both.

1). Section 3-3 Problem 2 (page 68). Show your graph!
2). Section 3-4 Problem 3 (page 71).
3). Section 3-5 Problem 5 (page 76).

Note: In all formulation problems, it is suggested that you solve your formulations using whichever computer program you are comfortable with. This helps to detect mistakes in the formulation. Answers to problems which require a solution to an LP graphically, or by the simplex method can also be verified using Lindo, Excel, etc.