**Problems Useful for IENG512 Final Exam**

1. Solve the primal problem as follows

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2. Write the dual of Problem 1.

3. Solve the dual by the simplex method.

4. Show that the optimal solutions satisfy the two equations of the Theorem of Complementary Slackness.

5. Solve the dual by using the optimal solution of the primal problem and the Theorem of the Complementary Slackness.