Practice problems (don't turn in):

1. [DPV] Problem 7.1 and:
   Can you use the dual LP to prove it's optimal?
2. [DPV] Problem 7.4 (LP for Duff beer)
3. [DPV] Problem 7.5 (LP for canine products)
4. [DPV] Problem 7.6: Give an example of an LP with unbounded feasible region but bounded optimum.
5. [DPV] Problem 7.11 (dual to the example)
6. [DPV] Problem 7.12 (prove that point (1.5,.5,0) is optimal
7. [DPV] Problem 8.13 (several NP-complete graph problems that can be proved by generalization, review 8.10)

Problem 1 Max-flow variants

[DPV] Problem 7.18 parts c and d (max-flow variants using LP)

Note: For (d), assume you are trying to maximize flow into t, so as to capture the advantage of paths that avoid particularly lossy nodes or that visit fewer nodes (and thus incur fewer losses). [Think to yourself about why this clarification is necessary].

Problem 2 Reduction

[DPV] Problem 8.9 (Hitting set)