**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

## Problem 1 Max-flow variants

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

## Problem 2 Best fit line

[DPV] Problem 7.8 (best fit line)
By the way, do you know how to convert this LP into standard/canonical form? You don't need to do it for the HW submission but you should know how to do it in any case.

**Solution:**

## Problem 3 Infeasible

For an infeasible LP, the dual LP is always feasible:

TRUE or FALSE

If TRUE explain why it's true, and if FALSE give a counterexample.