1. Let a $y_j$ be a decision variable corresponding to each edge. Write out the dual system to the VPLP *without* writing first out the primal system.
2. Let $x_i$ be a decision variable corresponding to each vertex. Write out the primal system.

3. The optimal value for both the primal and dual is 2. Find feasible solutions for the primal and dual that achieve these optima.

4. Check the complementary slackness conditions.