## CS 3510: Algorithms

## Assignment 7

## Assignment

Problems identified by x.y(z) denote the problem " $y$ ", in chapter " $x$ " of the textbook, with part "z". If " $z$ " is not noted, then the entire problem is required.

## Assignment 7a

- 7.1-Graphically solve the LP. Show the graph, the table of objective function value at each vertex of the feasible region, and the optimal vertex and object function value.
- 7.2 - Story problem to LP. (No need to solve.) Show the objective function and the constraints.

Assignment 7b

- 7.5 - a) Story problem to LP, b) solve graphically.


## Assignment 7c

- 7.4 - a) Story problem to LP, b) solve graphically.
- 7.11 - a) Convert LP to dual, b) solve both graphically.


## Assignment 7d

- 7.16 - Use software to solve LP.


## Submission

- Submit you solutions by the due date and time. For written problems, your work and answers as a PDF to Canvas. For code, submit the source code to the class git repository. For tables and graphs, submit a PDF to Canvas.

