

Due: Wednesday, April 9th (in class)

## Reading

For Monday, March 31st, Section 10.5.

For Wednesday, April 2nd, Chapter 14.

For Monday, April 7th, Sections 11.1–11.2.

For Wednesday, April 9th, Section 15.1–15.2.

## Assignment exercises to hand in for Math 448 and 748

Chapter 9, exercises 9.20<sup>1</sup>, 9.53.

Run the first two phases of:

- I. the capacity-scaling algorithm, and
- II. the cost-scaling algorithm, beginning with  $\epsilon = 10$ .

on the network shown in Figure 9.21 (a) on page 348. If you require an initial feasible flow, you should use the one from Figure 9.21 (b).

Chapter 14, exercises 14.1, 14.2 and 14.4.

## Additional problems to hand in for Math 748

Chapter 10, exercise 10.18.

Chapter 14, exercise 14.22.

Math 448 students are also welcome to try these problems.

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<sup>1</sup>If you have an older edition of the book, it may be that  $c_{37}$  is given as 2. This is a typo, the correct value is  $c_{37} = 3$ . (In fact, no edge has cost 2.) Do not worry about the last sentence in the question, which mentions the primal-dual algorithm.