

**CSI 35, Homework 13 on sections 11.4, 11.5**

Due by Mon, Dec 12.

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Here are nine more questions. Write all your working out and answers on your own notepaper. Please use lots of space. It is very important that you show clearly any work you had to do to get your answers.

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- (1) Page 795, Question 4
- (2) Page 795, Question 14
- (3) Page 796, Question 27 part (c) only
- (4) Page 796, Question 28
- (5) Draw the cycle graph  $C_7$  and make it a weighted graph by adding the weights

1, 2, 3, 4, 5, 6, 7

to the edges. Give the minimum spanning tree for this graph.

- (6) Page 802, Question 2
- (7) In your own words, describe the difference between Prim's algorithm and Kruskal's algorithm.
- (8) Page 802, Question 7
- (9) Page 802, Question 8

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If you understand the homework questions then you will be able to do the exam questions. You can also try the other questions listed on the syllabus to get extra practice. For any difficulties with the homework, please email me, come to my office hours or try the Math Tutoring Lab.