

Remember that, although you are encouraged to work together, all of your write-ups must be your own (no copying someone else's solution - not even with minor wording changes.) **List the names of everyone you worked with on the HW!** You are encouraged to **not** look online for solutions - your time is better spent wrestling with the proof yourself or getting help from the professor, than squandering it online.

1. READING

Reread Section 4.3.

2. PROBLEMS

Do

- (1) 4.3.3
- (2) 4.3.4
- (3) 4.3.8 (Hint: "ordinary network theory" means that from the digraph G having capacities on the vertices, define a new digraph G' having capacities on edges. Apply Ford-Fulkerson and/or max flow/min cut theorem to G' and then translate the result back to the graph G . Some of the edge capacities in the digraph G' will be infinite.)
- (4) (BONUS!) 4.3.14