

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

Read sections 3.1 and 3.2, paying particular attention to 3.1.10, 3.1.11, 3.1.16, Remark 3.1.17, 3.2.9.

Memorize the definition of **matching**, **vertex cover**, **stable matching**

2. PROBLEMS

Do

- (1) Exercise 3.1.1
- (2) Exercise 3.1.8 (Hint: Use Lemma 3.1.9)
- (3) Exercise 3.1.18. (See me for a hint early on if you get stuck)