

**Homework Set #5**  
**Due Lecture 11**  
**at the beginning of class**

**Chapter 6 of AMO**

1. Exercise 6.5
2. Exercise 6.9
3. Exercise 6.18
4. Exercise 6.30 (HINT: First show the following: if  $u_{ij}$  is replaced by  $u_{ij} - 1$ , then  $(i,j)$  is in every minimum cut for the modified problem.)
5. Exercise 6.35a
6. Exercise 6.38
7. Exercise 6.39
8. Exercise 6.48